# New

Serving DX'ers since 1933

Volume 61, No. 27 - July 18, 1994 (ISSN 0737-1659)



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From the Publisher ... The fifteenth edition of the NRC AM Log is in its final weeks of preparation, and you may reserve your copy now; details on page three. The good news is that the price is the same; the bad news, if you can call it that, is that Wayne needs a little help with updating information (see page 25) so that the Log may continue to be the most accurate listing of U.S./Canadian AM stations available. Other projects: The NRC Night Pattern Book is nearing completion; watch for an announcement sometime this fall for ordering information. And several other books are in preparation for release late this year or early next year.

A number of NRC'ers sent in answers to new member Jerry Slegh's question as to where the WELO calls were located in 1947, and the consensus was that WELO-1490 was located in Tupelo. MS. Thanks to Curt Engberg, Joe Kureth, Cary Simpson, and Doug (oops, the envelope is gone; I think it was Beard).

"RadioCom '94", alia "Radio Festival 1994", which had been organized by SCADS, is no more, according to Eric Cooper, but instead you still have your choice of the IRCA Convention (August 26-28, Aberdeen, WA; contact Bill Hardy at 2301 Pacific Ave. - Aberdeen, WA 98520-4527) or the NRC Convention in Nashua, NY (see page 47). (I'm still waiting for that coffee cup, but Eric says not to

Press release from TAB Books: Anita McCormick's new Shortwave Listener's Q & A Book contains a section on AM DX'ing plus excellent basic information on shortwave listening; just the thing for a beginner. The book sells for \$12.95; look for it in bookstores or order direct by calling (800) 822-8158.

Welcome to these new members ... Tom Tomlins, Springfield, OH; Mel Miller, Lancaster, PA (rejoins); Ed Boe, Oaklawn, IL; Henry Lazarus, New Orleans, LA (rejoins); William Gilbert, West Sayville, NY; Robert P. Swinn, Freedom, CA; Larry

A. Mann, Miami, FL: Jeffrey C. Galbaugh, Cincinnati, OH; T. W. Cairns, Bayside, CA.

### Remaining DXN Schedule, Volume 61

Deadline /Pub. Date

29. Aug. 5 Aug. 15 30. Sept. 9 Sept. 19

### DVN Dublishing Cohodule, Volume 42

	DXN Pub	itisbing S	cbedule, Volu	me 62
# D	eadline .	Pub. Date	,	
1.	Sept. 23	Oct. 3	16. Jan. 13	Jan. 23
2.	Sept. 31	Oct. 10	17. Jan. 20	Jan. 30
3.	Oct. 7	Oct. 17	18. Jan. 27	Feb. 6
4.	Oct. 14	Oct. 24	19. Feb. 3	Feb. 13
5.	Oct. 21	Oct. 31	20. Feb. 10	Feb. 20
6.	Oct. 28	Nov. 7	21. Feb. 17	Feb. 27
7.	Nov. 4	Nov. 14	22. Feb. 24	Mar. 6
8.	Nov. 11	Nov. 21	23. Mar. 10	Mar. 20
9.	Nov. 18	Nov. 28	24. Mar. 31	Apr.10
10.	Nov. 25	Dec. 5	25. Apr. 14	Apr. 24
11.	Dec. 2	Dec. 12	26. May 12	May 22
12.	Dec. 9	Dec. 19	27. June 9	June 19
13.	Dec. 16	Dec. 26	28. July 7	July 17
14.	Dec. 30	Jan. 9	29. Aug. 4	Aug. 14
15.	Jan. 6	Ján. 16	30. Sept. 8	Sept. 18

### DX Time Machine

From the pages of DX News:

50 years ago ... from the July 15, 1944 DXN: In the final report of the 1943-1944 contest standings, Norm Kernodle was the winner with 286,156 points and Frank Wheeler second with 261,120 points. oe Enz, Brooklyn, NY reported a verie from KHBC-1230 for his 3rd Hawaiian.

25 years ago ... from the July 5, 1969 DXN: Ralph M. Johanns, Buffalo, NY noted that Ken Lyon, Akron, OH got married ... Wayne Heinen was at the USCG Loran station on Sitkinak Island, Alaska for a year ... Geoff Fox sent him a copy of a WKY T-950 rerie for a test he had heard ... and he welcomed new member Fred Osterman, Williamsville, NY.

10 years ago ... from the July 16, 1984 DXN: Gerry Thomas contributed an article entitled DXing the 1984 Solar Eclipse".

## AM Switch

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

Status changes in AM stations, supplied by the FCC and listeners TO THE PROPERTY OF THE PARTY OF

CALL LETTER CHANGES			
Old call	<u>New call</u>	<u>Old call</u>	New call
860 WHRT AL Hartselle	WYAM	1350 WLNH NH Lacoma	WEZS
920 KDES CA Palm Springs	KPSQ	1400 KBLX CA Berkeley	KVTO
980 KRXX MN Richfield	KFGF*	1400 WHII NC Raeford	WMFA
1050 KNOB CA Frazier Park	KKGO	1410 WDTI, MS Cleveland	WOIT
1150 KINT TX 🖽 Paso	KSVE	1480 WCNV NC Charlotte	WIST
1190 KBCO CO Boulder	KBLD	1480 WAJA NC Franklin	WPF
1280 WKXK GA Macon	WIBB	1580 WMTI PR Morovis	WGFÉ
1290 WPCF FL Panama City Bch	WDLP		
***************************************			

Notes: KRXX-980 call change to KEGE seems to dispute the reports that this station will be going off the air.

### APPLICATIONS/GRANTS FOR NEW STATIONS

WOSE

TN

<u>APPLI</u>	CATIONS F	ROM FX	ISTING FACILITIES
640	WBOW	IN	Terre Haute: day power to 500 watts
740	WMIN	WI	Hudson: day power to 850 watts
780	WWOL	NC	Forest City, power to 10000 watts
900	WCER	OH	Canton: reduce night power to 75 watts
1150	WCEN	MI	Mount Pleasant: delete night service, become D1
1400	KTUC	AZ	Tucson: powers to 1000/1000 (their CP for 757/757 is presently of the air but this was intended only as an interim operation until a new antenna site was built; this is an application to restore the station to full power from a new site)

<u>CRAN</u>	<u>its to exis</u>	<u>HNG TA</u>	<u>CILITIES</u>		Bur
1060	WWZD	MS	Tupelo: relocate transmitter site	4.8	3:00r
1370	KFJM	ND	Grand Forks: relocate transmitter site		6:00p
OTHE	RNESS				
640	WISZ	MI	Zeeland, silent station is ON THE AIR	-70%	$(\mathbf{d})$

760	WVNE	MA	Leicester. CP for 25000 (8600 CH) is on Methes#4 for News and Talk
800	WDSC	SC	Dillon, silent station is ON THE AIR
820	WYTA	FL	Largo: several reports on the FidoNet claim the new call here is WYTR for "Your Talk Radio". This is incorrect. WRFA changed to WYLA for "Your Talk Authority" Be cautious of items you may read on these computer nets; they often turn out to be partially or totally wrong.
840	KSDP	AK	Sand Point: despite the reports to the contrary this station is NOT silent, as it has continued to operate and relay programming from KDLG-670 most of the day (see last issue); however, KABN-830 IS silent and has been for about 5 years, this report from member Rod O'Conner in AK who can hear KSDP.
920	WKYD	ΛL	Andalusia: station is SILENT
1010	KZRC	OR	Milwaukie: a few reports have sifted in that this station changed calls to KXYQ. This is the call of their FM station that may very well be heard during simulcasts but I have no record from the FCC that the call has been officially changed from KZRC, the call that matched their "Z-Rock" format. The FCC has a record of missing

call changes in their Public Notices so it is possible. Can somebody

in that area confirm the actual licensed call on 1010?

White Bluff silent station is ON THE AIR

1040	KURS	CA	San Diego. CP for 370/47 on on the air (f og typo gave CP night
			power at 470 watts which is incorrect) A new CP modification has
			been granted to raise this might power to 63 watts so this station is
			now 370/63 U1
1130	KHTH	CO	Dillon, station no longer relays KNUS Denver
1200	WAGE	VA	Leesburg: CP to reduce day power to 5000 is on
1220	WCPH	ľN	Etowah: this on-again/off-again station is again ON THF AIR (at
			least of this writing)
1250	WLEM	PA	Emporium: FCC has granted reinstatement of their CP to move to
			650 kHz 5000 D1, so they evidently plan to make this change, CP
			had expired several years ago
1280	WFCY	DE	Seaford, station was briefly SILENT to rebuild its transmitter
			facility but is again ON THE AIR
1290	WTMC	FL	Ocala: station is SILENT
1340	KMYQ	Į.A	Bastrop: heense CANCELLED and call DELETED
1400	WMFA	NC	Raeford: silent as WHIL; station is ON THE AIR
1470	WLMC	sc	Georgetown: silent station is ON THE AIR
1480	WIST	NC	Charlotte, silent as WCNV, station is ON THE AIR
1490	KMCW	MT	Great Falls listed recently as a newly-granted station and call; this
			was actually an old CP that has now been CANCELLED and the
			call DELETÉD, all this from an I-CC letter signed by none other than
			Mass Media Bureau Chief Roy Stewart, so we are taking this to be
			true. For now anyway.
	WJOC	TN	Chattanooga, silent station has new ownership and is expected to
	·		return to the air
1510	KMRF	MO	Marshfield, silent station is ON THE AIR
1540	WADM	IN	Decatur. silent station is ON THE AIR
	WPGR	PA	Philadelphia: CP for 50000/500 U4 is on, city of license is now
			Bala-Cynwyd, PA
1560	KLTI	MO	Macon, silent station has new ownership and is expected to return
			to the air

THANKS: David Lewis, Eugene Hinton, Wayne Heinen, Dave Schmidt, Rod O'Conner, J.D. Musco, Ed Krejny, Pat Agonia, and MSJ.

73 and Good DX

DIMY & BKF

Jerry Starr & Buffalo K. Foonman



The NRC AM Radio Log, 15th Edition, will be the most accurate listing of AM radio stations in the U.S. and Canada. Cross reference listings, and 3-hole punched for standard binders. Still only \$16.95 to U. S. and Canadian members; \$19.95 to U. S. non-NRC member; \$20.95 Canadian non-NRC member. Airmail: to Latin America, \$21.00; Europe, \$24.00; rest of the world: \$28.00.

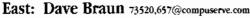
You may pre-order from: NRC Publications Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax)

## Domestic DX Digest

West: Bill Hale MTFH12A@Prodig v.com 495 Creckview Drive - Meridian, ID 83642-3241

between East and Central time zones)





11 Mill Bend Acres - Wyoming, DE 19934-9523

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

<del>Note to the control of the control </del>

### MEDIUM WAVE RAMBLINGS

- ☐ DX is kinda slim (quantity, not quality) this issue. But we've been busy figuring mucho Graveyard reports and the Special area is always hoppin'. Received GY updates (with new records) from Morris Sorensen logged in Leaf Rapids, Manitoba (plus his new totals from Scarborough), Steve Ponder, logged from several locations, Don Trelford from Jamaica, J.W. Bay in Drexel Hill, Pennsylvania and Jack Woods on the Oregon Coast. See later on for details. Morris, what you added about CBLY was covered up by the postmark, so please re-submit.
- ☐ Eric, after taking a deep breath, sez: "KJSL [-630] signed on at 0700 ELT on June 17, and billboards are already up around St. Louis . . . Their only competition on the AM dial is KSIV-1320, which airs a similar format. KFUO-850 has run its mix of information and light Christian music aimed at the members of the Lutheran Church-Missouri Synod since 1924, and financially troubled KXEN-1010 has fine-tuned once again, more toward a straight Contemporary Christian format, to compete with WCBW-104.9. This is evidence that not even Christian formats are immune from fragmentation!" (Eric, did you submit format information to Tony Fitzherbert? -pls) And Shawn jabbers: "Hey! This season isn't over yet. Two new ones in mid-June isn't bad. Lots of summer static to fight with, but it's worth it". Gray Scrimgeour was in Vernon, British Columbia for 3 days and took his TRF along. He tried for the new weather station mentioned in a recent DX News [see Issue 26, AM Switch, 1580 in Otherness - Fd]. He had no luck, after several bandscans, and asks "Could it be on FM? Or not on yet?" And "Thanks", Gray for the Sony report. Jim Bochm, down San Antonio way, sent several interesting newspaper articles. One, concerning the sabotage of WOAI's audio equipment during the Branch Davidian trial, was labelled "Terrorism" by FBI agents. The dastardly acts are alledged to have been the work of "out-of-town" TV people.
- A BIG Welcome Aboard to all new members Guidelines for reporting to the DDXD columns include to remember this is the place for real DX and late-breaking tips in your area, not bandscans. And, regardless of the method of reporting (we're on the info highway), arrange your loggings in frequency order divided into the sections seen here. Print neatly, type, or computer-generated reports are preferred (E-Mail, too). A note about postcards . . . it seems the post office likes to use the cancelling machines with the largest post marks on cards, so beware. If you need report forms, let me know. I'll get 'em to you free, for an SASE. At any rate, we wanna hear what you been hearin'.
- ☐ There are some changes looming on the Gravevard DX Achievements horizon. More details to come. So stay tuned and get your logs in order!
- ☐ Here are the deadlines for DDXD-W for the rest of Volume 61. Issue 29 July 30 Issue 30 September 3

Bumper Sticker: My Tube Radio Can Flatten Your Transistor Model.

### DDXD-East

### REPORTERS

- Thomas J. Reiser Champaign Sony ICF-2003 with built in antenna TR-IL1
- TR-IL2 Thomas J. Reiser Box 5203 Chicago, IL 60680-5203 Sonee Eyecee-eff MMIII
- barefoot EB-MO Eric Bueneman (NUIH) 631 Coachway I ane, Hazelwood 63042-1347
- BH-WA Bill Hardy Aberdeen
- SA-MB Shawn Axelrod 30 Becontree Bay Winnipeg R2N 2X9 ICOM R-70 w/PLAM board & 0.5, 2.4 & 4 kHz filter + 4' box loop or 100' Iw
- BW-OK Bruce Winkelman, AA5CO Tulsa R8, KIWA loop, 2-90 ft wires, MWDX5 JB-TX Jim Boehm San Antonio R71A + world-renowned downspout special antenna
- JE-MN1 Jon Ellis, Maple Grove good ole Sharp 8-band, but now with a Select-A-Tenna

IE-MN2 Jon Ellis, Lake Itasca same ole Sharp 8-band, but now with a Sciect-A-Tenna Jon Ellis, Side Lake that same ole Sharp 8-band, but now with a Select-A-Tenna

IE-MN3 Jon Ellis, Duluth that good, same ole Sharp 8-band, but now with a Select-A-TE-MN4

JE-WI Jon Ellis, Webster you guessed it

GS-BC Grav Scrimgeour Victoria

DP-HI Dale Park Honolulu ATS-803A Editor Meridian [\*] News sources Ed.-ID

> 478 East Bay Street SPECIAL Charleston, SC 29403

Duluth - Was full-service AC. Now full-service oldies, and KDAL MN Bohannan. (JE-MN4)

MO St. Louis - Back from two-month silence with Christian talk in C-630 K]\$L QUAM Stereo. Slogans are The Salt and Light of St. Louis and Talk Radio Hell Hates. Many mentions of Crawford Broadcasting. Address is: 1215 Fern Ridge Parkway, Suite #220, St. Louis, MO 63141. (EB-MO)

Boise - Testing with 15000 day rig in \$, but still fine-tuning the 500 730 KBSU watt\_night pattern. [Ed-ID]

Chicago - Same format, but no longer // FM-94.7. WLS-FM is now a WLS IL talk format geared at younger audiences. (JE-MN1)

Hayward - Now carries Unistar Oldies Channel NSP (still // FM-WHSM WI 101.7), replacing Full Service AC. ([E-WI)

Chicago - Has changed to 2/3 rap, 1/3 slow UC format. Possible WIPC LMA may be in effect, but will have to verify. Legal IDs as WJPC FM/AM Chicago-Lansing (IL) and slogan is 106 Jams. (TR-IL) Broadcasting Partners Inc. reports its Broadcasting Partners of Chicago Inc. unit, has acquired WJPC and WJPC-FM in Lansing, Ill., for \$8 million from Johnson Communications, Inc. and entered into a local programming and marketing agreement on June 17. [Ed-ID\*]

KHVN TX Dallas - Has been sold by Summit Communications to Granum Communications, Inc., along with its FMer KJMZ-FM. See also 600 and 1380 for related. [Ed.-ID\*]

MN Richfield-Minneapolis - Ex KRXX. Still simulcasting former sister KEGE KEGE-FM-93.7 with Modern Rock. Entercom (owner of 980) has probably entered into an LMA with Capital Cities/ABC (owner of KEGE-FM) to simulcast until 980 is sold, which will probably be a long time. Legal ID's are separate for AM and FM; the AM's ID is barely audible through explosions. Slogan is "The Edge." (JE-MN1)

Rice Lake - Now in \$. (IE-WI) 1090 WAQE WI

San Antonio - Now carries Larry King Live through Westwood 1200 WOAI ΤX One, Monday-Friday at 2100 ELT. (JB-TX)

San Antonio - New station slogan is La radio Labia. In local Tex-1250 KHBL TX Mex Tener Mucha Labia means To have the gift of Gab, 1e Talkativeness. Appropriate for this station's SS talk/news format taht is IDed as La Cadena Trecienta. A call to the station provided a person whose English was as poor as my Spanish, but I gather programming originates in Hollywood, California.(?) They carry the Houston Astros in EE. (JB-TX)

1270 WWWI MN Baxter - Uses slogan 3WI, kinda like 3WE. (JE-MN2)

Detroit - Has been acquired by Infinity Broadcasting Corporation WXYT  $\mathbf{MI}$ fEd-ID\*l

1280 KYRO MO Potosi - Adds KTVI-2's 1700 CLT (1800 ELT) newscast, per promos on KTVI-2 St. Louis. (EB-MO)

1290 WBZT FL West Palm Beach - Price Communications Corp. agreed to sell this and its FMer, WIRK-FM, to American Radio Systems Inc. of Boston. [Ed-

1340 KANR ID Nampa - Local rumors have it that this station is moving to 1350 with 5kw days and 1 kw nights with U2, contingent on the sale of the station. (FA-ID)

1350 KSLO Washington - Adds KTVI-2's 1700 CLT (1800 ELT) newscast //KSLQ-FM 104.5, per promos on KTVI-2 St. Louis. (EB-MO)

1430 KNSP Staples - Now relays KWAD-920 with low modulation. (JE-MN2) WRTH MO St. Louis - Address is 8081Manchester Road, St. Louis, MO 63144, which is the same address as KIHT-96.3 and WIL-92.3. (EB-MO)

SUPER COUNTRY

- 1460 KULA HI Honolulu Oops, spoke too soon (see DDXD-W Issue 27)! Per news reports, <u>Burnham Broadcasting</u> has backed off buying KULA because Burnham itself is being bought by <u>Liberty Communications</u>. This station went silent around 11/93, airing MoR music (AM Only or Format 41) and CNN Radio news via Unistar. (DP-HI)
- 1470 WLOL MN Brooklyn Park 6/18 2245 Fair with St. Paul Saints vs. Sioux Falls

  Canaries baseball. New call, ex: KBCW. Also NOS music / / KLBB-1400.

  On-the-hour IDs as AM 1400 KLBB St. Paul-Minneapolis AM 1470 WLOL.

  (SA-MB)
- 1510 KCTE MO Independence Ex: KJLA, first noted here 6/13 0751-0800 w/The Team syndicated sports, All Sparts, All Day slogan, and MANY ads. (BW-OK)
  - KCTE MO Independence 6/18 2225 Fair with The Sports Authority KCIE-AM, the team covering sports like nobody can. Kansas City's Team. New call, ex: K[LA. (SA-MB)
- 1540 KXEL IA Waterloo 6/1 2330 Good with Jazz/BBD/NOS music & religion nowadays. No C&W music. (SA-MB)
  - KXEL IA Waterloo 6/21 0737 With ads mentioning Waterloo, into oldies/standards, The All New KXEL slogan, then to talk show. (BW-OK)
- CA San Francisco Along with their FMer, has been sold to Group W Westinghouse, which is converting them to news-talk. (Westinghouse owns KPIX-TV there). The KKIII calls, format, and reportedly the music library are going to 100.7 San Rafael when Westinghouse releases them.

  (BH-WA) [And more ...] I did some sample listening ... during the World Cup game. They were playing classical music and I didn't catch an ID. (The next) morning I was more fortunate. Heard distinctly was: This is
- evenings ago [6/30] when I last checked. (GS-BC)

  1570 WBGZ II. Alton Per verie, address is 1900 Homer Adams Parkway, Alton,
  II. 62002, in addition to the P.O. Box listed in the 1994 AM Log. (EB-MO)
- 1600 KLLZ MN Walker Now relays KLIZ-1380 (as of 6/13), not FM-99.1 as other sources say, one of which is KLLZ-FM, which says it's simulcast on AM 1600 in its Legal ID. ([E-MN2)

### TIS & OTHER STUFF

KPIX and KPIX-FM, San Francisco. (BK-CA) ... still classical music 2

1610 TIS MN Virginia - Tourist info for the whole Iron Range. Station is barely audible at the points where they have signs pointing tourists to AM 1610. (JE-MN3)

### MIDNIGHT TO 0800 HOURS ELT

- 540 CBK SK Regina 6/23 0038 Fair with CLA music that time of the night. (TR-IL2)
- KSD MO St. Louis 6/23 0039 Poor with talk about postal workers. (TR-IL2)
   Urbana 6/6 0142 Poor, with talk about politics in Hungary & TC for Central European Time. (TR-IL2) [Probably with APR or NPR feed Ed.]
  - CKAP ON Kapushkasing 6/23 0041 Fair with promotion for call for help.

    Mentioned northern Ontario. (TR-IL2) [Did you answer the call, hi Ed.]
  - C K A P ON Kapushkasing 6/25 0040 Fair in CKY's null with AC music and DJ Paul Brenner, slogan The Sound of Northern Ontario. (JE-WI)
- 590 CKYC ON Toronto 6/25 0048 With WKZO, satellite fed Country and Real Country 59. (JE-WI)
- 660 WFAN NY New York 6/23 0048 Fair with discussion about New York's loss in the NBA Championships. (TR-IL2)
- 880 WCBS NY New York 6/23 0050 Good with ... call Star 88 on NYNEX ... for news tips. (TR-IL2)
- 900 CHML ON Hamilton 6/6 0125 Fair with promotion for talk show and oldies.
  (TR-IL2)
- 970 WAVG KY Louisville 6/23 0055 Poor with standards. (TR-IL2)
- 990 CBW MB Winnipeg 6/6 0135 Fair, with WLUP off, with CBC Jazzbeat. (TR-IL2)
  - C B W MB Winnipeg 6/23 0056 Good with CLA music that time of the night (TR-IL2)

- 1010 CFRB ON Toronto 6/6 0140 Good, with WLUP off, with talk about knowledgeable bartenders. (TR-IL2)
- 1080 KRLD TX Dallas 6/23 0058 Poor with ad for Fort Worth, and the Worthington Hotel. (TR-1L2)
- 1130 KWKH LA Shreveport 6/23 0054 Very poor, on brief fade-in, with talk on "tri-state area". (TR-IL2)
- 1150 KRLG AR North Little Rock 6/23 0104 Excellent with gospel music New (TR-IL2)
- 1190 KVSV KS Beloit 6/28 0716 With weather for South Central Nebraska, call ID into sports. Mixing w/KGBS and others. (BW-OK)
- 1200 KYOO MO Bolivar 6/27 0723-0749 Fighting w/WOAI, with C&W mx, ads, real "down home" announcer interviewing a local dairy farmer. ID @ 0748 in ads. (BW-OK)
- 1210 WOGL PA Philadelphia 6/23 0105 Fair with Oldies 98 ID, promo for show on WOGL-FM. (1R-IL2)
- 1560 KQYX MO Joplin 6/23 0759 With American Sports Radio Network, ads, call ID and slogan Missouri's most powerful AM station (!?) to CNN Headline News @ 0800. (BW-OK)

### 0800 TO 1600 HOURS ELT

- 550 KSD MO St. Louis 6/6 0859 Poor, with WIND splash, with coverage from Normandy for 50th anniversary of D-Day. (TR-IL2)
- 640 WBOW IN Terre Haute 6/9 1011 Fair with talk about service for naming people. (TR-IL1)
- 740 WVLN IL Otney 6/9 1006 Poor with CNN news into trading show. New. (TR-IL1)
- 770 WEW MO St. Louis -6/9 0950 Fair with standards and St. Louis traffic check. New Logging. (TR-IL1)
- 950 WIPC IL Chicago 6/9 0955 Poor with rap music. (TR-IL1)
- 940 WMIX IL Mount Vernon 6/9 0959 Tours of B-17 airplane in Carbondale.
  (TR-IL1)
- 1090 WCRA II. Effingham 6/9 1015 Fair with ad for DR Trimmer. (TR-IL1)
- 1220 KZEE TX Weatherford 6/23 0810 With K-Z Country slogan, to C&W music Finally heard this one! (BW-OK)

### 1600 TO 2400 HOURS ELT

1510 WLAC TN Nashville - 6/23 2331 - Fair with Voice of Prophesy - contemporary Christian heroes. (TR-IL2)

### GRAVEYARD DX UPDATE

\* indicates North American record

1230 kHz: WBHP KIFW KSLO KVAS KMUZ KWYZ XEIZ	AL Huntsville AK Sitka LA Opelousas OR Astoria OR Gresham WA Evcrett NL Monterrey	J.W. Bay, Jr. Jack Woods Steve Ponder Jack Woods Jack Woods Jack Woods Jim Boehm	Drexel Hill, PA Douglas, AK Bossier City, LA Waldport, OR Waldport Corvallis, OR San Antonio, TX	723 *92 168 *123 *112 *238 289
1240 kHz: KPOD KASO	CA Crescent City LA Minden	Jack Woods Steve Ponder	Waldport, OR Bossier City, LA	*183 26
<u>1340 kHz:</u> KWSL KWVR KLKI	CO Grand Junctic OR Enterprise WA Anacortes	on Jack Woods Jack Woods Jack Woods	Douglas, AK Waldport, OR Waldport, OR	*1172 *341 *291
<u>1400 kHz</u> : KNND KTFS	OR Cottage Grove TX Texarkana	g Jack Woods Steve Ponder	Waldport Bossier City, LA	*68 65

1450 kHz: KCTI TX Gonzales KMHT Marshall KBKW WA Aberdeen	Steve Ponder Steve Ponder Jack Woods	Houston, TX Bossier City, LA Douglas, AK	126 37 *895
1490 kHz:           KXAR         AR Hope           WMOG         GA Brunswick           KVWC         ГХ Vernon           CJSN         SK Shaunavon	Stephen Ponder Don Trelford Stephen Ponder Morns Sorensen	Bossier City, AR St. Ann's Bay, Jamaica Fort Worth, IX Leaf Rapids, MB	80 918 158 *584
Totals: 1230 1240	<u>1340</u>	1400	<u>1450</u>
1490 Total  Jim Boehm San Antonio, TX  11 10	12 10	5 56	8
Morris Sorensen Scarborough, ON	2		3
10 6 J.W. Bay, Jr. Drexel Hill, PA	9 32		
Jack Woods Waldport, OR	- <b>4</b>	32 3 KBUR 1490 AM	7

### ABBREVIATIONS USED IN DUXU

/ f:parallel to :00:on the hour AC:Adult contemporary AP:Associated Press BBD:big band BRN:Business Radio Net C&W:country & western CCR:contemporary Christian radio CHR:contemporary hit radio CID:code ID CL:call letter F7L:easy listening EE:English FF:French COS:gospel IRN:Interstate Radio Net LSR:local sunnise LSS:local sunset MLB:Major League Baseball NPR:National Public Radio OC:open carrier POL: political PSRA:pre-sunnise authority PSSA:post-sunset authority QRM:man-made interference QRN:natural interference QTH:location REL:religious ROK:rock n' roll RS:regular schedule S:stereo SID:singing ID SRS:sunnise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UP:United Press International

### DDXD-W

### **NEWS AND VIEWS**

Good to hear from Al Prete via CompuServe with a Special item. Also received notice through the Prodigy business news area that WCAO-MD-600, WBZT-FL-1290, and WAOV-GA-1380 have been or will shortly be sold. Not sure if there will be any programming changes as a result, but it may pay to check on these stations when you can.

I think this column is a record for me – one page! If you can DX this summer, let us know what you hear. Summer deadlines are July 29 and September 2.

WGSM

## SPECIAL NY Huntington - This station, and its sister FM WMIC 94.3, are in the process of

		being acquired from Greater Media Inc. by Gary Starr and Islandwide
		Broadcasting L.P. for \$5 million. As of 6/6, WGSM drops NOS format in favor of
		contemporary hits/news/sports; and WMJC drops AC in favor of ROK //
		Starr's WRCN-103,9 FM in Riverhead. (AP-NY)
1280	WECY	DE Seaford - 7/4 0915 - Noted back on the air with satellite all-70's music,
		"The all new 1280 AM". Haven't heard a call ID yet in an hour of listening.
		(DB-DE)
1480	WADR	NY Remsen - 7/4 0005 - Noted dominant with American Sports Radio Network
		talk show, ID as "The home of ESPN Sports on Total Sports Radio - 1350
		Rome/Utica and 1480 Remsen", no longer NOS. Make this note on 1350 as well.
		(DB-DE)
		TINIO AND TINIO DELD

### UNID AN<u>D UNID HELP</u>

1320 UNID 6/20 0400+ - "Golden Horseshoe" network station playing music of the 40's nonstop and without commercials or ID except for "We're here all day long. We are Golden Horseshoe Radio". Have heard for three days now, in WARA null. (AH-RI)

### 0000 to 0800 ELT

570 CJEM NB Edmundston - 6/11 0305 - French station dominating frequency with WSYR, both over usual WMCA. (AH-RI)

750	CKGB	ON Timmons - 6/10 0250 - Strong with CW. (AH-RI)
	CIT (TIV	FL Boynton Beach - 6/9 0400-0500 - Dominated the frequency, obliter
1040	WYFX	FL. BOVINGO DEALTH = 0/7 0400-0500 - Dominiated and many

FL Boynton Beach - 6/9 0400-0500 - Dominated the frequency, obliterating the usually dominant WHO. Slogan "Foxy 1040" with local merchant ads and "Music good for the soul", an unusual catch here. (AH-RI)

### 1600 TO 2400 ELT

950 WXGI VA Richmond - 5/8 2037 - Good with CW music, WCTN noted off air. (WPT-DC)

### OTHER STUFF

DE Bear - 5/19-5/23 - Noted testing, located at Routes 13 & 7 (Red Lion), signal not as good as in past tests (DS-DE)

530 KMJX865 MD Bowie - 6/18 1100 - Noted while on U.S 50 westbound with parking info for the new Prince Georges County Stadium, home of the Bowie Baysox. Was not noted on castbound drive Tuesday, 6/21. Maybe only on day of games?

530 WPEP712 MD Elkton - 5/20 - New TIS with Cecil County events, I-95 traffic info. Very strong here. (DS-DE)

590 WTBJ332 MD Rockville - 5/5 2155 - Taped traffic message for Montgomery County, MD (Georgia Avenue). Fair, repeats every 65 seconds. (WPT-DC)

870 KFB718 VA Wolf Trap Farm Park – TIS with parking and access info, number to call for schedule of events. (DB-DE via Tim Braun-VA)

1610 WNXP DE Wilmington – This TIS has not been active for some time, but OC is still on – Philly Airport TIS is strong in its null. (DS-DE)

1610 WNQA286 MD Annapolis - 6/21 1545 - Noted on new frequency, ex-530, with traffic info for Annapolis area. Also included list of other "Maryland State Highway Administration Travelers Advisory Radio Stations" as "on the Eastern Shore in Easton, Queenstown, Cambridge, Salisbury and Ocean City, and on the north and west sides of the Baltimore and Washington beltways". As far as I have heard all of these are on 530 except this one and one of those in the Baltimore area. (DB-MD)

### <u>REPORTERS</u>

AH-RI Al Hemmalin, Middletown, RI: FRG-100, Palomar loop, longwire, Grove antenna tuner

AP-NY Al Prete, West Islip, LI, NY:

DS-DE Dave Schmidt, Wilmington, DE: HQ180A, SM2, Superadio II

WPT-DC Bill Townshend, Washington, DC: Sony ICF-2010

DB-DE Dave Braun, on U.S. 50/U.S. 301 in MD: Subaru car radio, R-5000, Quantum loop

## PROBLEMS, PROBLEMS?

We can't solve all your woes, but we can solve your DX News problems. Torn, solied, partially-printed, MIA, or worst of all, delivered in a USPS plastic baggle? No need to return the copy - just end a postcard to NEC - 2840 SE Illinois Ave. - Topeka, ES 66605, and a replacement copy will be mailed free. Missing back issue? Replacement copies from Vol. 56 on, to current NRC members only, are sent for the cost of first-class postage (29t for a 24-pager, 52t for a 48-pager). Quantities of 24 may be sent book rate for \$1.48.

## Facts About NRC's DX Audio Service

The DX Audio Service provides the ONLY monthly broadcast news cassette service to the DX community. Available to anyone, anywhere, it is designed to inform the radio listener in a pleasing and informative manner. Many of the announcers on the service are professional broadcasters giving their free time to give the listener the finest service available.

DXAS was started to provide broadcast information, both AM and FM, to the visually-handicapped DX listener. It has evolved into a service which provides useful material to all types of listeners. Many subscribers listen to the tape to and from their place of work while driving. Features include not only news about DX, but also airchecks from radio markets, dialscans, frequency scans, and other items.

A one-year subscription is only \$25. Sample 45-minute copy: \$2.00; back issues of DXAS: \$3.

Cassettes are mailed by First Class mail, on or about the 20th of the month. For information, subscriptions, renewals, back and sample copies: write to DX Audio Service - P. O. Box 164 - Mannsville, NY 13661-0164

International Jim Renfrew JimRenfrew@AOL.com 61 Wilcox Street Rochester, NY 14607-3832

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

The state of the s

In answer to my own question of last month, after consulting with Paul, we will continue to consider loggings of Alaska, Hawan and US territories as DX "countries" and as IDXD material. First of all, this is what we have been doing for a long time. Second, its what every other DX club that I know of does. Third, its a hobby, not a Supreme Court debate, and in my experience is a question that few NRC members care about one way or another, in my case because my chances of logging Hawaii and Alaska are virtually nil! Fourth, you are always free to count whatever countries you want in compiling your own records.

Last month, I lost Bruce Conti's narrative report of his logging of the HCJB test, but it appeared

in last issue's Musings section, so you didn't miss a thing.

A hot Trans-Pacific report from John Bryant, Guy Atkins, and Nick Hall-Patch is our lead item this edition! Jim

### TRANS-PACIFIC DX

531 2MC, W. Kempsey, NSW, Australia noted throughout the evening at low levels. Came up nicely at dawn enhancement (1150 to 1230). ID, TC with pips and into the news at 1200 on 6/13. Also logged on 6/14 [Bryant\*BC]

540 2AP, Apia, W. Samoa (tentative) seemed to dominate co-chan. CBK on several occasions. Polynesian choir around 0800on 6/13 and traditional Polynesian singing around 0950 on 6/13. [Bryant\*BC]

576 2RN, Sydney, Australia // to stronger 4RN, 792, Brisbane with talk show at 1140, 6/14. Levels briefly good. [Bryant\*BC]

702 2BL Sydney, AUSTRALIA (pres.) Noted throughout the evening from 0820 until band fade at 1330 on 6/3 with usual EE programming. Also noted on 6/5. Good levels at times, [Bryant\*WA] Here all evening with fair levels increasing to an excellent signal around 1200 UTC. NSW News, Weather for Sydney and surrounding area, etc, 6/13. Also logged 6/14. [Bryant\*BC]

738 Papeete, TAHITI FF talk by two men noted in passing at 1232 UTC on 6/5. [Bryant\*WA] First noted at 0700 on 6/13 with 2 men in FF. Signal present periodically for the next 6 hours or so. Strength never better than fair. [Bryant\*BC]

774 3LO Melbourne, AUSTRALIA. ABC news until 1210 UTC, 6/5, then ballads. [Bryant\*WA] Phone-in talk show at good level at dawn enhancement, 1141 on 14 June. [Bryant\*BC]

774 JOUB, Akita, JAPAN At S-9 levels in JJ during brief East Asian opening at 1110 UTC on 6/3. NHK2 programming in parallel to JOBB, Osaka on 828 kHz. Also noted on 6/5. [Bryant\*WA]

792 4RN, Brisbane, AUSTRALIA listed. FE Aussie DJ playing ballads. Good levels around 1220 to 1240 UTC, 6/5, with nary an ID. [Bryant\*WA]

828 JOBB, NHK2, Osaka, JAPAN, noted in [] from 1110 tune-in throughout the 45 minute East Asian opening on 6/3. Levels were never strong. Parallel to 774, Akita. Also noted weakly on 6/5. [Bryant\*WA]

837 4RK, Rockhampton, Qsld., Australia. Excellent level at dawn enhancement, 1148-1205 with talk show and news 6/14 [Bryant\*BC]

846 T3K1, Naranakei, KIRIBATI, Noted at 0830 on 6/3 with programming in parallel with 9825 kHz. SWBC outlet. Level poor to fair. [Bryant\*WA] // to SWBC outlet on 9825 kHz. Noted at 0705 on 6/13 with fair strength. Presumed news in Island language by female announcer Also logged briefly in // on 6/14. [Bryant\*BC]

1017 A37, Nuku'alofa, TONGA, noted from 0830 tune-in until sign-off at 1000 on 6/3. Signal relatively weak but well modulated throughout. [Bryant\*WA] (presumed) at 0711 UTC 6/13 with female speaking in Island language. Also heard 6/14. This signal is just not as strong as it was in 89, 90 and 91 seasons. Equipment deterioration??? [Bryant\*BC]

1053 S.Korean jammer still here. Noted at S-9 at 1122 UTC on 6/3. North Korean programming

unheard underneath [Bryant\*WA].

1116 4MB, Maryborough, Qsld., Australia. Probable. Aussie EE heard briefly at max dawn 1220, 6/14 [Bryant\*BC]

1143 2HD, Newcastle, NSW, AUSTRALIA. This one probable at good levels, 1247 - 1301 UTC on 6/3. Slogan "Playing the best music in the Highlands and the coal fields." Soft rock programming with lotsa commercials [Bryant\*WA]

1332 4BU, Bundaberg, Qsld, Australia most likely. Briefly with Aussie audio at max dawn, 1225, 6/14 [Bryant\*BC]

1475 Strong het heard here during the East Asian opening about 1130 UTC on 6/3. Presume that RTVMalasia, Kotakınabalu is still recalcritrant about being off frequency with the rest of the planet. [Bryant\*WA] Borneo present at very low level with lagu pops at 1120 on 6/13 Audio also noted 1111 to 1125 UTC on 6/14. [Bryant\*BC]

1548 4OD Fmerald, AUSTRALIA. Ballads, Aussie FE DJ, proper TC at 1000 UTC on 6/5. Slogan "ABC Radio, the sound of Queensland!" [Bryant\*WA] 1230 on 6/14 with excellent signal.

Ballads & talk. [Bryant\*BC]

1557 UNID Logged between 0830 tune-in and 1330 post-dawn band fade out at Grayland. EE rock/ballads from the 70s. Fem ann, in unknown non-polynesian language running program early in reception. Continuous inx later in evening. No commercials. ???? [Bryant\*WA] UNID first noted on 6/3 DXpedition. Found at good level on 6/13 at 0710 UTC. Host was a man & language could be Tagalog, but the time seems too early. By 0715, level dropped to poor and continued at that level til band fade @ 1300 [Bryant\*BC] First heard as a het on 6/14 at 0640 and with audio at 0657. These times virtually rule out a Philippean station. Prior to about 0900, the local DJ is very active. After about 0900, records are played with various amounts of dead air [Bryant\*BC]

1566 HLAZ, Cheju Island, S KOREA. (pres.) Here in Chinese with rel. prgm.at S-9+ level. Noted from 1115 til 1150 on 6/3. Het was still evident at 30 minutes past local dawn at Grayland.

John speaks: "June 3rd - Lots of relatively low level Trans-Pac signals throughout the night. More signals than expected in the upper portions of the dial. Many remained unlogged due to logging hours of uninterrupted 70s rock trying to ID the 1557 signal! Morning of June 5th we were using only one Beverage at about 250 deg. Levels seemed poorer, but there were, again many unlogged signals, especially above 1200 kHz. 1557 again present at good levels. Brief EaAsian opening before back to Downunder."

### PAN-AMERICAN DX

610 COLOMBIA RCN Bogotá, MAY 17 0120 - American EZL music (ballads), carly 60's rock. ID by man in EE as "RCN, the proneer station in Bogota". Full ID by woman in EE and SS as "RCN 610 International at 0130, then into a Rod Stewart song, SIO 333. This is an EE format rock station located in Bogotá. Probably what Bueneman heard on 610 in the May 23rd issue of DXN. [Seiden- ARUBA]

660 VENEZUELA YVNA Onda de Los Medanos, MAY 17 0300 - Ads for shoe store, photo store, jewelry store, love songs in SS, male DJ, SIO 444. [Seiden- ARUBA]

700 VENEZUELA YVMH R. Popular, MAY 17 0305 - EZL, latin vocals, ID by man at 0308. [Seiden-ARUBA]

740 VENEZUELA YVNC R. Maracaibo, MAY 17 0310 - Lively latrin vocals, ID by man at 0311. [Seiden-ARUBA]

820 VENEZUELA R. Guadalupana, Coro, June 11 0206 - Ads, ID and LA ballad. SIO 333 [Burnell-NF]

830 VENEZUELA R. Sensación, Caracas, June 11, 0220 - Lots of ads, prices in Bolivares, for stores/companies in Caracas. QRM from St. Kitts, SIO 333. [Burnell-NF]

840 BRAZII. likely R. Bandeirantos, São Paulo, June 11 0142 - PP talk, mentioned "Radio Mundial" a few times, but I think this was hype for coverage of the upcoming World Cup. (Over SS stn that had time pips at 0145) SIO 333 [Burnell-NF]

860 BRAZIL R "CBN", Rio de Janeiro, June 11 0148 - Woman with PP news then man with TC, "C-B-N" ID and wx. SIO 343 [Burnell-NF]

880 BRAZIL R. Inconfidencia, Belo Horizonte, June 11 0211 PP talk regarding soccer faded up over WCBS. SIO 322 [Burnell-NF]

895 ST, KITTS & NEVIS VO Nevis, Charlestown, June 11 0040 - PSA for Caribbean Conservation Assn. then soca mx. SIO 233 [Burnell-NF]

980 BRAZIL R. Nacional, Brasılıa, June 11 0117 Man talk PP, then one of Linda Ronstadt's SS songs. SIO 333 [Burnell-NF]

1030 PUERTO RICO WOSO, San Juan, June 11 0011 - FE program: Wall Street report, ID, pop music then faded below unID SS stn. SiO 333 [Burnell-NF]

1040 BRAZIL R. Capital, São Paulo, June 11 0018 - PP phone conversation, ancr said "Música Capital" then played Braz pops SIO 444 [Burnell-NF]

1100 COLOMBIA HJAT Caracol, MAY 17 0134 - Colombian vocal music with station jungles and ID by man, SIO 333. [Seiden-ARUBA]

1110 VENEZUELA R. Carupano, Carupano, June 11 0159 - 1D including mention of Sistema Radial Venezuelana, IC, Venez music. SIO 333 [Burnell-NF]

1205 CAYMAN ISLANDS Georgetown, MAY 26 2100-2117 - Older rock, ID as R. Cayman, woman DJ, still on the air. [Trelford -JAM] (Don, do you still hear them on 1555 as well? - Jim)

1220 BRAZIL R. Globo, Rio de Janeiro, June 10 2359 - Slogans and ad, "Radio Globo Noticias" at 0000. Slop from VOAR (1210), SIO 333 [Burnell-NF]

1280 BRAZIL R. Tupi, Rio de Janeiro, June 10 2353 Jingles and "Super Radio Tupi" ID, hype for the World Cup and audio replays of famous goals. Over CBN (640) harmonic, SIO 344. [Burnell-NF]

1320 ARUBA VO of Aruba, Oranjestad, MAY 17 0136 - With talk show by man in Papiamento. At 0253 recheck programming had shifted to EE and mellow rock. [Seiden-ARUBA]

1350 COLOMBIA HJOC Santa Marta, MAY 31 0212-0312 Sports or talk show on Sports Colombia and mention of Mexico, interference from WDCF but dominated frequency by 2200 [Trelford-JAM]

1370 CUBA CMFA Nuevitas, JUN 2 0004-0030 - LA pop music, ID as "R. Cadena Agromonte, Camaguey, Cuba", fair. [Trelford-JAM]

1440 ARUBA R. Kelkboom, Oranjestad, MAY 17 0140 - Male and female vocals in Papiamento. [Seiden-ARUBA]

1470 VENEZUELA R. Vibración, Carupano, June 11 0003 - Ad for pharmacy chain and Hotel Mar Caribe, promo for pgin "Fn Campana", ID then LA mx. SIO 344 [Burnell-NF]

Mark Seiden speaks: "Was in Aruba a couple of weeks ago on business; took my new Grundig YB-400 and hooked the 21' wire that comes with the radio to the balcony on the 6th floor of the Hyatt, which is located on the south side of the island on the coast (Venezuela 18 miles to the south). I expected great BCB, latin and perhaps some African DX, but no soap. The strong Venezuelan and Colombian stations were overwhelming" (In the Dominican Republic last year the Venezuelans and Colombians were very dominant - Jim)

Jean speaks: "Conditions were disappointing...no small Brazilians audible, just the big guns and the usual Venezuelans. Angolan signals, which are characteristic of decent southern propagation, were completely absent. The only loud TA's heard were a few common Spaniards/Canary Is. stns on the lower part of the band."

#### STATION NEWS

UNITED KINGDOM: BBC Radto 1 has cut back its MW operating hours prior to quitting MW commpletely in July. R1 used to close down its MW transmitters at midrught local time (assuming the timer set to do this operated correctly). From this weekend gone (JUNE 12) a tape loop is heard between 6pm and midrught advising listeners to retune to FM. If you want to hear R1 on 1053 or 1089kHz you have probably less than a month in which to do so

Not 100% true since some of the transmitters in the 2 synchronous networks are carrying the regular programming while the rest carry the looped announcement. Skywaves of the former can be clearly heard between pauses in modulation of the latter. Anyone know which ones? My guess is the transmitters covering areas not served (fully) by the FM outlets. Wonder if they too close in luly.

I too noticed RI audio mixed with the looped announcements but assumed/inferred that the audio was being mixed prior to transmission and NOT a mix from different transmitters. I have also noticed after midnight that a weak RI signal, clear of any loop announcements, is audible on both 1053 and 1089kHz. These signals are poor quality in East Anglia and I have suspected that transmitters in N Ireland/Cumbria are the ones left on overnight.

I have repeatedly tried to get an answer from the "returning" phone number announced on air (0345-010313) which is the number for BBC Engineering Information but it takes ages to get an answer.

However, according to BBC Engineering all MW transmitters should be carrying the loop amouncement between 6pm and midnight, and all transmitters will close down at the end of July (even if FM coverage is less than perfect in certain areas). Any transmitters currently still on air after midnight local time is due to switching faults and not deliberate. The last programme from R1 on MW will be the breakfast show between 0600-0900 hrs (local) on July 1st. For the rest of July only a tape loop will be aired.

BBC Radio 1 has to vacate all its MW channels before July 31st on which date they are handed back to the Radio Authority. This affects the high power channels of 1053 & 1089kHz as well as low power relays on 1107 and 1485kHz.

The BBC will be leasing its transmitters to the new commercial national talk- radio network that has been awarded the franchise. Start date for the new service is likely to be late 1994. [Steve Whitt, MW News via e-mail]

NORWAY: Radio Norway Home and SW service has been on strike since last Sunday morning Three NRK trade unions are on strike. On FM P2 and P3 frequencies are silent. P1 programming consists of news and interval signals combined with a short announcement on what kind of

programming is still available. The only broadcasts being made within Norway are short 3 minute summaries of the news NRK TV is silent as well. Unless the strike doesn't end by the start of the World Soccer Championship (NRK has the Norwegian rights to broadcast the matches), the strike could last several weeks. [Jan Alvestad and friends via Steve Whitt, MW News via e-mail]

### SPECIAL FEATURE: SLOGANS

540 NCG R. Corporación "la radio que llega" 550 VEN Mundial "en primer lugar" 610 CI M RCN Radio International "A world of music" 650 PNR R. Mia "cadena nacional" 660 CLM Colmundo Radio "6-60 en su dial" 670 EQR R. Jesus del Gran Poder "la voz que llega al corazón del pueblo" 720 VEN R Oriente "la señal de Venezuela" 760 PNR La Voz del Itsmo "la onda de inspiración" 790 CLM La Voz de Colombia "la primera" 790 VEN R. Minuto "las noches son mas alegres con" 840 CLM IIJ Doble K "la emisora de los grandes éxitos" 900 VEN R. Mara Ritmo "la súper radio" 940 VEN Súper Radio Punto Eijo "940 AM" 1140 CLM R. Piendamo "sistema comunal" 1190 CLM R. Mira "somos su estación" 1270 CLM R. Melodia "en el primer lugar" 1290 CLM Ondas del Puerto "la poderosa de Girardot" 1380 CLM Armonias del Palmar "la voz que se oye en toda la ciudad 1390 CLM. La Voz de Los Andes "a su servicio" 1390 CLM. R. Avenida "de todelar, porque ud lo merece" 1470 VEN R. Latina "con gusto y sentido" 1530 CLM R. Total "con la música de todos los tiempos" 1550 CLM. HJZI "exclencia radial" 1590 VEN R. Deporte "15-90 AM, realmente deportiva" (excerpts from a list prepared by Yimber H. Gaviria in PLAY-DX #787))

### OSL INFORMATION

CUBA: CMKZ 1520, Radio Baragua, Santiago, v/s Monika Porto, Dpto. Relaciones Públicas.

MEXICO: XEBA "La Consentida", Guadalajara; v/s Miss Tercsa Morales Romo, Manager of XEBA and XEZZ (Apartado Postal 6-460, Guadalajara 44680). [Trelford JAM]

### CONTRIBUTORS

Mark Seiden, DXing from ARUBA.

Don Trelford, St. Ann's Bay, JAMAICA

John Bryant and Guy Atkins, Grayland State Park, WA; beverages at 240, 270, 300 degrees, NRD-525, Drake R7A

John Bryant and Nick Hall-Patch, Sombrio Breach, BC; JRC NRD-525-modified, array of 4 1000+ foot Beverages from 220 to 340 deg.

Jean Burnell, St. John's NF (10 minutes south by car); Icom IC-R71A and a 1200-foot unterminated wire aimed at eastern Brazil (SSE)

### IRCA Mexican Log, 3rd Edition, Now Available!

After months of preparation, IRCA has published the 1994 edition of the IRCA Mexican Log.

The log lists all AM stations in Mexico by frequency, giving call letters, state, city, day power, night power, slogans, schedule in UTC/GMT, formats, networks, and notes. Stations that have changed frequency since 1990 are cross-referenced on the old frequency.

The call letter index gives call, frequency, city and state. The city index (listed by state, then city) gives frequency, call, day and hight power. There is even a guide to the Spanish alphabet and numbers.

The log has been completely updated from the 1990 edition and carefully cross-checked by IRCA members in Mexico and the U.S. This will be an indispensible reference for anyone who hears Mexican radio stations.

1.5. This will be an indispersion receive for anyone with least indispersion receives a mail. Frest of the Americas airmail.

The price, payable to IRCA in U.S. funds: IRCA/NRC Member. \$6 U.S./Canada/Mexico/seamail, \$7 rest of the Americas airmail.

\$7.50 Europe/Asia airmail, \$8 Australia/New Zealand airmail. Nos-Member. \$8 U.S./Canada/Mexico/seamail, \$9 rest of the Americas airmail, \$9.50 Europe/Asia airmail, \$10 Australia/New Zealand airmail.

Order from Phil Bytheway - IRCA Bookstore - 9705 Mary N.W. - Seattle, WA 98117.

## IRCA AM-FM Almanac - 1991 Edition Reprint

IRCA has reprinted a limited number of copies of the 5th Edition of the IRCA AM-FM Almanac. Several DX'ers have expressed interest in obtaining the most recent Almanac edition from 1991, rather than waiting for the next complete Almanac in 1994.

- 4 1991. Edition this is the edition sent to the press in October, 1990. Information is from 1988 thru 1990. Much of the information is still useful today.
- Be sure to state your preference for Looseleaf or Comb Binding. This edition is available looseleaf, ready to hole-punch and place in a binder, allowing for easy updates. Comb binding is available at no extra charge if you request it. The price for this reprint is the same as in 1991:

RCA/NRC member: U. S. - \$13.00 Ganada- \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00

Non-member: U. S. - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

Send check or money order, payable to "IRCA" in U. S. funds, to Phil Bytheway, IRCA Bookstore, 9705 Mary N. W.,

Seattle, WA 98117. Thank you!

## FM DX

### Mike Hawk, NØOSY

10212 P St.

Omaha, NE 68127-2130

DX on the FM hand, from April through September

Digest 

First off, sorry for how last month's column turned out. In the process of converting my MS-DOS disk over to Paul's system, apparently returns get erased. Anyway, at least it saved a little space. ('Twasn't your fault. I used a different translation application this time, which retained returns at the end of every line. -pls.)

Conditions really picked up, especially the last couple of weeks of the month. The only complaint I'd have about the season so far is the lack of western openings. With the amount of southeastern E-skip, it almost seems like I live in Florida!

John Zondlo of Yukon, OK wrote to say that Joe Fela's 100.9 Es catch is indeed KGLC they simulcast the AM KVIS, who ID's as 'The King's Vision" Thanks for your info, John.

### Tom Sanders, Davison, MI

Equipment: Pioneer TX9500-II w/RS 5 element antenna at 25 feet; IVC car radio June 12 Es

2000 88.1 WSBF SC Clemson, w/ end of Bob Dylan's "Highway 61 Revisited," CL's and slogan "Upstate's only alternative."

2000 88.1 WCQS NC Asheville, legal ID mentioning // stn WFQS Franklin and the Mountaineer Radio Net; trad. country show (Country Roots)

June 14 Es

2130-40 88.1 KGNZ TX Abilene, Christian heavy metal music. Solid, pegging the needle in stereo for about 10 minutes. June 19 Tr

1730-45 93.9 WDOR WI Sturgeon Bay, Brewers bb. Heard in car, but only CKLW at home

June 21 Es

2215-45 97.5 WPCV FL Winter Haven, in and out w/C&W. Heard many times before 6/21.

2200 88.1 WJIS FL Bradenton, solid in stereo most of the time with "Stillwaters" soft Christian hits show

2200-2315 89.5 WMNF FL Tampa, most steady for longest time this night with "Underground Circus" alt music show and mentions of phone calls from Midland and Saginaw, MI. Legal ID at 2300 "serving central Florida and some parts of Michigan."

### Eric Bueneman, Hazelwood, MO

Equipment: Realistic STA-90, no mods; Archer VU-110 antenna w/rotor and inline amplifier at 33 feet

May 18 Tr

0240 103.5 WUEZ IL Christopher, good w/EZL ld KLOU-103.3 off

0257 97.9 WXEF IL Effingham, good w/AC/CHR, ex WBFG-97.7

May 18 Es

1221 93.3 WAIA GA St Marys, good with "A-I-A" ID, AC/CHR for Jacksonville over WFLZ with some splash from WTMI-93.1 Miami

May 20 Tr

0103 93.3 WMXP IL Peoria, good over WJLI w/legal ID, "Mix 93.3", AC/OLD

0145 90.1 WEFT IL Champaign, good w/ alt. rock, no ID's - is a first grader running this?

0205 98.5 WACF IL Paris, fair under semi local KTJJ w/ lcl ad, calls, C&W music //WPRS-1440 AM

0225 95.3 KLZE MO Owensville, good to fair over WRXX with Radio Aahs, CSN Children's programs //WWTC, WAOZ, etc. Lcl WFUN off

0300 94.1 WCFA IL Watseka, good to fair with WMIX, ABC news, AC/CHR May 23

1942 88.3 KLYT NM Albuquerque, good to poor with KDHX splash and religious talk show

1945 93.1 KQIZ TX Amarillo, "All Hit Z-93" and CL ID's into CHR

1947 94.1 KZRR NM Albuquerque, good over KBUY with AOR //KZSS-610

1954 94.1 KBUY TX Amarillo, fair to poor w/KZRR and C&W

1957 98.7 KKLT AZ Phoenix, good w/soft AC, "K-lite 98.7" and traffic report

2000 975 KVNA AZ Flagstaff, good over WBBA w/legal ID and CHR

2010 96.5 KRFM AZ Show Low, mention of sponsors, splash from KIHT

2015 92.1 KZUA AZ Holbrook, good w/C&W, lcl ads, wx forecast, Z-92 ID, splash from WIL

2019 93.3 KKOB NM Albuquerque, good over KDKB w/AC/CHR, "93.3 KOB-FM" June 1

0150 106.1 WINN IN N Vernon, good and alone on channel w/lcl ads, "Win 106", legal ID mentioning Seymour and Columbus, into CHR

0157 96.7 WCVS IL Virden, good w/Oldies 96.7 ID and legal ID w/Springfield (ex 1450 Springfield)

0202 106.9 WDML IL Woodlawn, good with "Oldies 106.9 WDML" ID

Eric reports: 'These are new stations heard at this OTH this season. Veries already back from KBAT-93.3 and KPVI-87.75 and several TV stations, so this season has gotten off to a hot start. Catching some locals off has enabled me to bag stations on 92.5 and 103.5 via trop, and even skip rolls in on the adjacent channels (the advantage to being 20 miles away, I guess) with the locals blasting away at 100 kw ERP. The nearest FM is 6 miles up the road (WKBQ) and giving me no problems. KCFV 89.5 is even closer (five miles), but has only a 100 watt signal. Speaking of KCFV, my on-air hours, under the pseudonym E.B. Stevenson (until 8/21) are Sat. 1200-1600 and Sun 0800-1200 CDT. 73, Eric N0UIH

Gary Houdek of Munden, KS reports a few station changes. KGRI in Henderson, TX has changed from 100.1 to 99.9 and increased power to 7100 watts. KQNS in Lindsborg, KS has moved from 95.8 to 95.5, changing power to 25,000 watts. KDNS in Downs, KS is on with C&W.

### Rick Dau, Iowa City, IA

June 9 Tr

2135 106.5 WLJY WI MArshfield, Joy 106 ID heard between songs. first time here in about 2 years, KRVR is the regular

lune 10 Es

1742 96.1 unID CO, slogan "Good times and great Colorado Country". '92 FM Atlas shows 2 CO stns, KGLL maybe? [The new Atlas shows 3 stations, but KGLL seems most likely. They are the only C&W listed, and are 100 kw]

June 13 Tr

0136 101.9 KYNN NE Lincoln, while KNWS faded, heard DJ chatter. "25 songs in a row on the Hit Kicker, 101.9..." Thanks to Todd Brandeburg for ID'ing this.

1820 107.3 WCOF FL Tampa, Coast 107.3 ID and spot for Carlisle Ford in Tampa

1830 104.1 WGLF FL Tallahassee, Gulf 104 ID 1835 94.5 WCVU FL Naples, Shore 94.5; heard again 6/28

1839 95.5 WOVV FL Ft Pierce, with Star 95.5 ID and ad for Splash Beach Club in W Palm Beach

97.3 WFLC FL Miami, ad that mentioned South Florida 1850 96.9 WINK FL Ft Myers, with DI: "Special love songs for special people on Wink 96.9". Heard about 2 years ago.

1902 101.5 WLYF FL Miami, Cls mentioned during DJ chatter

1905 101.7 unID FL, current temps for Ocala and Gainesville, ID sounded like WDJY. [This is Trenton, FL, who recently changed to WDIY-mrh]

1914 104.1 unID, call-in program that was first heard around 1830. Thought the host said "Real Radio 104.1". [WTKS in Cocoa Beach (Orlando) has an all talk format -

1922 104.3 WEAT FL W Palm Beach, Elton John song, than "Sunny 104.3" ID and talk from DJ Sonny Quinn

1923 103.9 unID, Sunny 103 ID, then song "You're no Good" by Linda Ronstadt. Definetly not WZMQ, though I'm open to suggestions.

June 27 Es

1156 96.9 WKTC NC Goldsboro, w/tornado warning foe eastern Martin county, moving out of Beaufort county. Rand McNally helped for this one.

1346 93.1 WEDG FL Edgewater, with ID as "Daytona's All Gold 93"

1352 92.5 WYUU FL Safety Harbor, Tampa area wx and "U-92" jingle

1406 94.9 WZTA FL Miami Beach, Bruce Springsteen's "Blinded by the Light", then "Zeta 94.9" ID

June 28 Es

1220 107.5 WSFM NC Southport, Led Zeppelin song, Surf 107 ID and mention that the Surf Patrol would be on the streets today.

1244 95.1 WRNS NC Kinston, ad for Betsy Drake Interiors and mention of WRNS

1307 99.1 WEDR FL Miami, with R&B and "WEDR 99 Jams"

1312 92.5 WEOW FL Key West, ad for Duncan Ford and ID as "The Key's #1 Music Station"

1315 92.9 WFMO FL Ocala, Q-Lite 92.9 ID and Ocala Lincoln-Mercury ad

1320 93.1 WTMI FL Miami, CLA mx and "You're listening to WTMI, Stereo 93, South Florida's Voice for the Arts"

1322 93.3 WFLZ FL Tampa, Tampa Bay's only hit music station, the Power Pig"

1324 93.3 KKOB NM Albuquerque, with wx and "KOB-FM" jingle

1332 93 5 WKRY FL Key West, Key 93

1347 93.5 WMTO FL Port St. Joe, ID between iazz cuts "93.5 WMTO Port St Joe". Heard Sting and Steely Dan carlier.

1351 95.7 WMTX FL Clearwater, ad for Clearwater Mattress "where Tampa Bay goes to sleep". I've logged this station's

promo for a backyard BBQ from Bay 96 1359 95.7 KPCL NM Farmington, ID as "You're 24 hour companion, KPCL" then

1404 94.9 KWYK NM Aztec, ad for drugstore with 2 Farmington locations then ID as "Kwick Radio digital 94.9"

1424 98.5 WFSY FL Panama City, promo for Sunny 98.5's July 4th party

1438 98.7 KRTZ CO Cortez, Icl ads

1439 99.1 WKNN MS PAscagoula, ad for Mitchell Motors in Pascagoula. First catch from the Magnolia State.

1441 99.1 KXKC LA New Iberia, ad for Simono's Grocery and ID jingle

1456 99.9 KXTC NM Thoreau, ad for Taco Bell off Highway 66 and highway triple 6.

1457 99.9 KTSM TX El Paso, with KTSM ID and mentions of EL Paso

1639 93.1 KRCS SD Sturgis, weather: "...80 degrees here in downtown Sturgis .."

### Hank Holbrook, Dunkirk, MD

Equipment: Fisher 101-R (old tube set given to me by neighbor - has been tuned up by AL and should be a good tuner - sensitive and selective) vintage 1959. Antenna: Winegard CS-6065 single bay 10 element vagi and channel master rotor

April 30 Tr

1557 92.1 WLBW DE Fenwock Is., often good here - interference problems with WVLT NJ. R&R oldies, relays WLVW 105.5 - both serve Ocean City - why same programming?

May 23 Tr

0856 97.1 WLFX MD Ocean City, rough to pull in, DC really dominates. Takes super opening for this one "Classic Rock 97.1 the Fox"

June 12 Es

2009 91.7 WBGL IL Champaign, came atop channel caught an annet which ended "right here WBGL" then into what seemed to be C&W music

?? 91.7 KRSW MN Worthington, severe wx warnings for many IA and MN locations, in for about a minute, then 2 CLA stns, KRSW may have been one.

June 17 Tr

0757 106.9 WRXS MD Ocean City, new station X107 modern rock.

June 21 Tr

0632 93.1 WHYN MA Springfield, good much of the time with WPOC nulled. Oldies 93 HYN ID

June 21 Es

1859 89.1 WBSN LA New Orleans, ID, wx, religious type rock mx. Very good at times.

2020 88.3 WRBH LA New Orleans, reading for the blind: sports etc in detail! Very interesting.

Hank notes he had many unIDs, and heard previously QSL'd stns KVTT-91.7, KERA 90.1 and KRVS 88.7

June 27 Es

1114 92.5 KSYN MO Joplin, ads, contest, music, QRM - KOMA dominated 1115 92.5 KOMA OK Oklahoma City, OLD, ads

1223 92.9 KZOC KS Osage City, KZ-93; C&W, good, ads and PSAs

1258 88.7 KLNE NE Lexington, BBC nx, IDs, sponsors, pretty good

Morris Sorensen, Scarborough, ON

Equipment: GE Superadio II or Panasonic RF-B65 w/ whip antenna

May 23 Es

2000 90.1 WMPR MS Jackson, program annets and ID

May 25 Tr

0834 88.7 CIMX ON Windsor, o/ semi-local WBFO in CIRV splatter; modern rock and 89-X slogan

0856 89.9 CBE ON Windsor, CBC stereo CLA

0929 88.3 WCDU NY Warsaw, with Christain music and talk, easily seperated from

1958 89.7 WKSU OH Kent, program annets and ID

June 12 Es

1912 89.7 WMCU FL Miami, GOS mx, ID mentioning Miami-Ft Lauderdale and "S. Florida's Christain Radio"

1924 95.7 WGAP TN Marysville, obliterating semi-local CFJB w/ C&W for the Knoxville area

1929 90.7 WVAS AL Montgomery, "Your Jazz Giant 90.7" and wx

June 13 GW

1928 91.9 CFLZ ON Niagara Falls, rarely heard poking through with tourist info and IDs (ID'ing as CFL-zee for Americans and CFL-zed for Canadians) and mentioning broadcasting from atop the Skylon tower." Listed as 8 watts.

Mike's DX, using the Kenwood KT-815 (IF mod) and FM-10 up 33'

June 3 Tr

0756 98.1 KBFW MN Blue Earth, 98 Country 0813 95.3 KDJS MN Willmar, K-95.3

June 7 Tr

0100 97.7 KFBD MO Waynesville 0100 97.7 KZBK MO Brookfield, "The Z";

apparently hasn't moved to 96.9 yet 1400 90.3 KBUZ KS Topeka June 7 Es

1354 88 3 KBNR TX Brownsville, SS ID June 9 Es

1200 91.3 WSEB FL Englewood 1210 89.5 WSRX FL Naples

1223 99.3 WJBXt FL Ft Myers, classic rock; heard part of ID

1336 92.1 WCTQ FL Venice, lcl ad

1907 88.1 WAYF FL W. Palm Beach, Way FM June 11 Tr

1602 92.1 KMFC MO Centralia, rel

lune 12 Es

1610 96.7 WSCZ SC Greenwood

June 14 Tr

0935 103.1 KDMG IA Burlington

June 14 Es

0937 96.3 WRHT NC Morehead City, The Hot

1931 91.7 WFTI FL St Pete

1938 98.1 WWSF-1 FL Fort Walton Beach

1942 102.1 WWAV Santa Rosa Beach, ex 102.3

2000 89.1 ????? VERY STRANGE! Had three stations audible - sounded like mixing products or overload, (i.e. no capture effect all three could be heard at the same time). The three stations were WHS-88.1 Bradenton, WEEJ 100.1, and WLPJ 91.5 These stations aren't related in any way and I can't see any way these stations could mix to combine on 89.1. Can anyone help??

2027 106.3 WKNU AL Brewton

2032 99.3 WEBZ FL Mexico Beach, The Breeze

2037 102.9 WNPT AL Linden

2039 94.3 WOZX AL Greenville, O-94

2041 100.9 WALX AL Selma

Tune 21 Es

1755 106.3 WCIF FL Melbourne

1800 91.9 WAYL FL St Augustine, FL#100!

1813 98.9 WMMO FL Orlando

1817 100.5 WNFQ FL Newberry

1820 97.9 WSTF FL St Augustine, Star 97.9

1825 97.3 WFLC FL Miami, Coast 97.3

1831 94.3 WOLL FL Riviera Beach, Oldies 94.3

1834 104.9 WMLO FL Havana, Mellow 105 1835 105.3 WSTI GA Quitman, Star 105.3

1839 105.1 WOMX FL Orlando, Mix 105.1

1841 102.1 WQLC FL Watertown

1848 95.5 WOVV FL Ft Pierce

1852 95.3 WOLZ FL Ft Myers

1859 90.9 WJWV GA Ft Gaines, Peach State Public Radio

1900 90.5 WBVM FL Tampa

1907 107.5 WDBN GA Wrightsville, Mix 107.5

1925 95.3 WIYF GA Nashville, Light 95.3

1932 95.3 WFMV SC S. Congaree, Gospel 95.3

2217 94.9 WTNT FL Tallahassee

June 21 Tr

1945 95.3 KIFG IA Iowa Falls

0026 107.3 KIOW IA Forest City, ex 102.3; o/KEZG

fune 22 Es

1108 88.1 WNCM FL Jacksonville

1111 90.9 WKTZ FL Jacksonville June 25 Es

1057 94.3 KFST TX Ft Stockton

1100 89.1 KSTX TX San Antonio 1244 94.3 WLXP SC Marion

1247 94.5 WRNN SC Murrells Inlet

1250 92.9 WZNS SC Dillon, Z-93

1301 90.9 WLGI SC Hemingway, talk about

17

1309 97.7 WBPR SC Georgetown, Mix 97.7, ld ads; maybe a call change coming?

1311 106.5 WSYN SC Georgetown

1314 104.1 WYAV SC Conway

1316 102.1 WMXT SC Pamplico

1321 99.7 WRFX NC Kannapolis, The Fox 1325 106.3 WCCA NC Shallotte, Beach 106.3

1326 101.3 WWQQ NC Wilmington, Double Q

1327 102.3 WJSK NC Lumberton, Country

1351 100.5 WKSY SC Marion, Kicks 100.5 June 26 Tr

2355 107.9 KWKS KS Winfield, Oldres 108 and "WKS" IDs

June 27 Tr

0704 107.1 KTHS AR Berryville, good (3600 watts)

0708 102.9 KHOZ AR Harrison

0713 103.5 KQLA KS Ogden, finally moved here from 103.9

0714 103.3 KTFX OK Tulsa, K-Fox

0725 99.5 KADI MO Republic

0730 95.9 KKBL MO Monett

0736 92.5 KSYN MO Joplin 0750 101.7 KGOZ MO Gallitin, Z-101.7

0753 94.3 KAMO AR Rogers

0859 97.9 KKLL MO Webb City

0901 91.3 KUAF AR Fayetteville

0914 103.5 KWXD MO Asbury

1025 107.9 KKRF IA Stuart, K-107 FM 1338 97.3 KXUS MO Springfield

June 27 Es

0920 95.3 WOBR NC Wnchese

0956 96.3 WRXR SC Aiken, 96-RXR 1029 100.9 WSTS NC Fairmont

1041 107.1 WCIG SC Mullins

1044 106.5 WRDX NC Salisbury, Beach 106

1049 99.5 WMAG NC High Point

1053 103.9 WZXS NC Topsail Beach, WZX 1054 105.7 WFMX NC Statesville

1057 103.5 WRCQ NC Dunn

1100 89.5 WETS TN Johnson City 1105 98.7 WKOO NC (acksonville)

1106 98.1 WQSM NC Fayetteville

1110 94.5 WNEU NC Eden, Cat Country

1112 101.5 WRAL NC Raliegh, Mix 101.5

1113 101.1 WPCM NC Burlington, Country

1120 98.1 WBRF VA Galax

1126 93.9 WZZU NC Burlington

1132 96.5 WXCC WV Williamsville

1138 104.9 WVVV VA Blacksburg, Rock 105 1146 104.3 WKCY VA Harrisonburg, KCY

1154 101.5 WBQB VA Fredericksburg, B-101.5 1156 94.3 WFCB OH Chillicothe

1200 91.7 WEMC VA Harrisonburg 1206 99.1 WHCM WV PArkersburg

1211 97.9 WFGM WV Fairmont 1214 94.3 WRLF WV Fairmont, your home of rock and roll

1231 99.1 WNNH NH Henniker 1337 94.3 WKSL PA Greencastle June 28 Es

1808 103.5 KTWC AZ Glendale, apparently a call change June 29 Es 1110 89.1 WUFT FL Gamesville 1116 104.1 WGLF FL Tallahassee 1120 107.1 WSNI GA Thomasville, Sunny 107 1127 97.5 WSSY AL Talladega, #40 on 97.5!

1133 98.9 WBAM AL Montgomery, Oldies 98

Total now stands at about 1315, 73

## **Formats**

### Tony Fitzherbert 356 Jackman Avenue Fairfield, CT 06430-1728

### Changes in programming status; reported by listeners

Welcome to the midsummer Formats column. As discovered on my annual railroad trip, the WRHC-1550, Coral Gables, day transmitter site, once in the middle of Biscayne Bay, is gone - a casualty of Hurricane Andrew. It will not be rebuilt, as Biscayne Bay is now subject to a lot of environmental regulations. WRHC is now operating at 500 watts from its night site, an array in the Coral Gables city dump! The old facility was an area landmark - four towers in line, atop pilings several miles off shore. It was attended, and the engineer stayed out there for a week at a time before being relieved by another engineer. Each day a tug boat would deliver diesel fuel to the generator which powered the 10,000 watt transmitter. At night the operators had little to do but watch television and tend lobster pots. As my contact told me in Miami, "It took a certain kind of individual..... ". As for the trip, a lot of trains were enjoyed in Miami, New Orleans, St. Louis, and Chicago. Several Station Profiles will be appearing in DX News, saluting some extremely unusual radio stations. I have learned that the completeness of a profile is in direct relation to the number of DX'ers on staff at the station being profiled! One train on which I was riding derailed after hitting a boxcar full of kitty litter, which slipped from a freight train in Smithfield, NC - that was Amtrak's Train 97, the Silver Meteor. Fortunately I was unhurt, although over 200 people were injured and the engineer died in the crash. I did hear Smithfield's WMPM-1270, with its country and gospel format, on my walkman, before resuming the trip via Delta Airlines.

From Ron Bailey, of Shelby, NC, WIST-1480, Charlotte is on the air again, with satellite-fed adult standards. This station was last WCNT, owned by the Reverend Pat Roberts, with conservative talk, sports, and business news. It failed and in 1993, the Christ Covenant Church took over the station, airing WCNV, with a mix of Unistar CNN Headline News and Christian programs. it too failed. The call, WIST, in the 1960's belonged to Charlotte's top rock station.

Eric Bueneman writes that KJSL-630, in St. Louis is "The Salt and Light of St Louis" and is "Talk Radio Hell Hates"....the station was KXOK, and the new call stands for "King Jesus for St. Louis".

The column is from Eric Bueneman, The M Street Journal, and your editor aboard the Sunset Limited in Florida, en route to New Orleans. Here we go....

```
- News, talk, and sports - four networks (M).
      WDAK GA Columbus
540
                              - Talk, CBS, and NBC Talknet, here from 1530
     WCKY OH Cincinnati
550
                              - Religion and Major Talk (M).
     WPHY PA Philadelphia
560
                              - Religion and Major Talk (M).
570
      WMCA NY
               New York
                              - SMN Oldies (M).
580
     KUBC CO
              Montrose
                              - SMN Adult standards (M).
      KRFC TX Lubbock
580
                              - "The Team" Sports - "The Team" is a new sports
      WCNE FL Panama City
590
                              network (EB).
                              - Unis CNN Headline News (M).
               San Diego
600
      KOGO CA
600
      WOKU FL
              Jacksonville |
                              - Unistar standards (M).
                              - LOcal talk, AP news (TF)
610
      WIOD FL
               Miami
               St. Petersburg - News, talk, more local talk, less//WIOD (EB).
      WSUN FL
620
                              - Southern gospel, Reach southern gospel at night
      WAVU AL
               Albertsville
                              - BRN Business News (M).
      WLAP KY Lexington
                              - Religion, was KXOK (EB).
630
      KJSL MO
              St. Louis

    News, talk, jazz, BBC World Service overnights

640
      WOI IA Ames
```

```
KGVW MT Belgrade
                              - Religion (M).
690
     WOKV FL
               Jacksonville
                              - Talk, here from 600 khz (M).
      KHEY TX
               El Paso
                               - SMN Kool Oldies (M).
710
      KMPC CA
               Los Angeles
                              - Talk (M).
                              - Unis CNN Headline News (M).
710
      KEEL LA
               Shreveport
               Kansas City
                              - Country oldies and farm news//KMZU "Missouri's
                               Farm Voice" (EB).
710
      WDSM WI Superior
                              - Talk, sports (M).
740
      WSBR FL Boca Raton
                               - Business news and traveler's info, to be
                              listened to when tired of 980 here (TF).
                              - Now adult standards (M).
      WMXH PA Olyphant
750
790
                               - JSN Country music//FM (M).
      WRMS IL
               Beardstown
790
      WLKW RI
               Providence
                              - SMN Adult standards (M).
B00
      KREI MO
               Farmington
                              - Adult contemporary, oldies, talk (EB).
800
      WDSC SC
               Dillon

    Country music//FM (M).

820
      WYTA FL
               Largo
                              - Talk (M).
640
      WCTG SC
               Columbia
                              - Religion (M).
      KVEG NV
               North Las Vegas - "The Team" sports (M).
840
                              - Now oldies//WQQQ "Q-103", Sharon, CT (TF).
850
      WREF CT
               Ridgefield
850
      WEAT FL
               West Palm Beach - Hits from 60's to 80's//"Sunny FM 104.3"
(TF)
               Saratoga Springs - Classic Rock (M).
900
      WCKM NY
910
      KTLM AL
               SMN Real Country (M).
               Haywood
910
      WHSM WI
                                Unis oldies//FM (M).
910
      TV VHNW
               White River Jct. - Unis Adult Standards (M).
920
      KESQ CA
               Palm Springs

    News, talk (M).

930
      CJCA AB
               Edmonton
                               - Gospel (M).
                              - Hot adult contemporary//WCBH-104.3 (EB).
      WCRA IL
               Effingham
                              - Oldies (M).
930
      WIAD IL
               Quincy
930
      MKY OK
               Oklahoma City
                             - News, talk, sports (M).
940
      KJPN HI
               Honolulu
                               - Ex-KDEO, country music, now all Japanese (M).
              St Louis Park
950
      KJJO MN
                              - Classic country music//FM (M).
                              - "Motivation Radio", "Winner Radio", with
      WWNN FL Pompano Beach
                               continuous tapes to build self esteem, this must
                              be heard to be believed - defies the imagination
      WCVT GA Rossville
                               - SMN Urban Gold (M).
980
      WRNE FL Gulf Breeze
                                   - Classic soul hits (TF).
                              - Talk (M).
980
      KSVC UT
              Richfield
1000
      WDJL AL
               Huntsville
                               - Urban "Love 1000" (M).
1646
      WFXY FL
               Boynton Beach - Urban "Foxy Radio" (TF).
      WRFS GA
               Alexander City - SMN Real Country music (M).
1060
      WWZD MS
               Tupelo
                               - Country music//FM (M).
      KENR TX
               Houston
                               - Brokered athnic (M).
1070
1080
      WVCG FL
               Coral Gables
                              - Brokered Spanish Christian (TF).
1090
      WCAR MI
                              - Brokered variety, PRN Talk (M).
               Livonia
      IM WWWW
                               - To drop country music for sports (M).
1130
               Detroit
      KCMS CA
               Palm Springs
                              - "The Team" sports (M),
1140
1150
      WMEX MA
               Boston
                               - All Spanish, ethnic (M).
1170
      WAVS FL
               Davie

    Brokered ethnic and variety (TF).

      WNSW ME
                               - News, WWI Talk (M).
1200
               Brewer
               Miami Springs
      WCMQ FL
                               - Spanish talk (M).
      KRGO CA
1220
              Fowler
                              - Spanish oldies (M).
                               - Repeating tape with travelers'info and real
1230
      WTKX FL Pensacola
                               estate//WPLF-1290 "Florida Information Radio"
                              - Urban "Electric 1230" (M).
1230 WWSD FL Quincy
                               - Classical music "K-Bach" (M). Honest!! (TF).
1230
      KKBX OR
               Gresham
               Cadillac
1240
      WATT MI
                               - All talk (M).
      KCFI IA
               Cedar Falls
                               - News, talk (M).
1250
1250
      WLEM PA
               Emporium
                               - Unistar country music (M).
1270
      WTMO GA
               Columbus
                              - Spanish (M).
                              - PRN News, talk (M).
1270
      KOZQ MO
               Waynesville
      WIPC FL
                              - Southern Gospel (TF).
1280
               Lake Wales
1280
      KRZE NM
               Farmington
                               - Country music (M).
      KMEN CA
               San Bernadino - Oldies (M).
1290
1290
      WPLF FL
               Panama City Beach - TIS and real estate info//WTKX-Pensacola
                               "Florida Information Radio" (TF).
                              - SMN Real Country music (M).
               Terre Haute
1300
      WOAD MS
               Jackson
                               - Ex-1400, still UC/gospel (M)
1300
      KAKC OK
               Tulsa
                               - News, talk, sports (M).
                                                                         Imus in the
1300
      KACI OR
               The Dalles
                               - JSN Oldies (M).
                                                                         Morning
1320
      WLQY FL
               Hollywood
                               - Ethnic, mostly Haitian (TF).
     WVLR VA
                                                                         6:00am -
1320
               Lynchburg
                               - Black gospel (M).
                              - Oldies (M).
1330
      KWLO IA
               Waterloo
1340
      WDSR FL
               Lake City
                               - SMN Real Country (M).
1340
      WITS FL
               Sebring
                               - Nostalgia, standards (TF).
1340
     WTRN PA Tyrone

    Adult standards (M).
```

```
1360 WHNR FL Cypress Gardens - Nostalgia (TF).
     WXAI OH Cincinnati
                              - CSN Children's Programs "Radio Aah's", duopoly
1360
                              with WSAI+1530 (EB).
1370 WDEA ME Ellsworth
                              - Adult standards (M).
1380 WLVS FL
              Lake Worth
                              - Christian, some classical music (TF).
1390
     WKHF FL
              Avon Park
                              - Spanish (M).
1390
     WZZB IN
              Seymour

    Major (network) adult contemporary music (M).

                              - News, talk (M).
1390 WADA NC
              Shelby
1400
     KBCH OR
              Lincoln City
                              - Adult standards (M).
                              - JSN Oldies (M).
     WHLN KY
              Barlan
1410
     WDBF FL
               Daytona Beach
                              - Adult standards (TF).
1420
              Pittsfield
1420
     WBEC MA
                              - News, talk, sports (M).
1420
     MHK OH
              Cleveland
                              - Sports, talk (M).
1430
     WNAV MD
              Annapolis

    Adult standards (M)

                              - JSN Country (M).
1440
     WRAJ IL
              Anna
                              - Standards, talk (M)
1440
     WPRS IL
               Paris
1450
     WBSR FL
              Pensacola
                              - Nostalgia, adult standards (TF).
              Lake Charles
                              - "The Team" sports (M).
1470
     KLCL LA
1470
     KBCW MN
               Brooklyn Park - Standards//KLBB (M).
                              - Adult contemporary "The right music mix." (TF).
1490
     WSIR FL
               Winter Haven
1490
     KOWC CA
               South Lake Tahoe - News, talk, sports (M).
                              - JSN OLdies (M).
     WKRO IL
1490
               Cairo
1490
     WTUP MS
              Tupelo
                              - Sports (M).
                              - SMN Adult contemporary (M).
1490
     WGMF NY
               Watkins Glen
1490
     WAZL PA
               Hazleton
                              - Unistar 41 adult contemporary (M).
                              - "The Team" sports (M).
1510
     KCTF MO
              Independence
1510 KTTT NE
              Columbus
                              - Unistar oldies (M).
                              - NBC News, Unistar AM Only, nostalgia, soft
1530
     WSAI OH Cincinnati
                              adult contemporary, ex-1360 (EB).
1540
     MJJT TN
              Jellico
                               - Southern Gospel "Hymns for Him" (M).
     WRHC FL
1550
              Coral Gables
                              - Cuban talk, from 500 watt night site (TF).
                              - SMN adult standards (M).
1550
     WCSJ IL
              Morris
1550
     KIÇS NE
              Hastings
                              - News, talk (M).
1560 WATJ OH
              Chardon
                              - Adult standards (M).
1560
     KKID OK
               Sallisaw
                              - PRN News, talk (M).
1560 KWCO OK
                              - Adult contemporary//KXXK 105.5 (EB).
              Chickasha
1570
     WTWB FL
              Auburndale
                              - Gospel music, religion, and ABC News (TF).
              Fernardia Beach - Full service country (M).
1570 WQAI FL
1570
     KQWC IA
               Webster City
                              - Talk//FM (M).
1570
     WRED NY
              Riverhead
                              - New rock//FM (M).
1580
     WSRF FL Ft. Lauderdale - Brokered ethnic, otherwise//WSHE-FM with adult
                              contemporary music (TF).
1580
     WOXR AL Oxford
                              - SMN Adult standards (M)
1580
     WZZJ AL
               Moss Point
                              - Religion "Light for the Gulf Coast" (TF).
     WPOM FL
                             - Black gospel (TF).
1590
              Riveria Beach
                              - JSN Soft adult contemporary//FM (M).
     WPCO IN
              Mt Vernon
     WZRX MS
1590
              Jackson
                              - Black gospel (M).
     KLL2 MN
                              - Classic rock//FM (N).
```

Plenty to read at the beach! Enjoy the summer, and I hope to join you for part of the convention up in the great state of New Hampshire!



Professional

Barry S. Finkel BSFINKEL@ANL.gov

## Sports 10314 S. Oakley

Chicago, IL 60643-2409

Networks

Network listings for team sports stations

Due to some unknown errors in my software, four of the MLB lists in the last column had missing entries. There were some missing stations at the top of the second columns. Below are the corrected lists plus others. The same footnotes are repeated here from the last column. (The file I had sent to Paul were incorrect, but when I reran my software the resulting files were correct!)

I have a copy of the 1994 Saint Louis Cardinals network list (from Tom Reiser, who lives a a mile from me), but as it clearly states "not for publication", I cannot reproduce it here.

Send me lists and/or corrections to me; my Internet address is BSFINKEL@ANL.GOV

Here are some miscellaneous updates from Jon M. Ohman and Marc DeLorenzo (via \$0.29 snailmail); Doug Smith, Eric Bueneman, Bob Karchevski, Ken MacHarg [HCJB Quito, EC], and Dave Braun (via Internet): The Cincinnati team is the "Reds", not the "Redlegs". In the Cincinnati Reds' list, 1270 WXVW-IN is actually on 1450. Don Drysdale is no longer a Dodgers announcer, as he died in 1993. He has been replaced by Rick Monday. The Phillies' flagship has changed calls from 1210 WOGL-PA to 1210 WGMP. The Braves flagship is not 94.9 WPCH-GA, only 640/105.7 WGST-GA. On 640, Rush Limbaugh takes precedence, forcing the flaghip to FM only. The Rockies' Spanish Flagship is KCUV, not my typo-ed WCUV. The Montreal Expos' games are also carried on 6005 CFCX (shortwave), which simulcasts CIQC fulltime. The Oakland Athletics' color commentator is Ray Fosse, and should have been listed after Bill King and Lon Simmons.

The Nashville Sounds (AAA) are on 1590 WDBL-TN and 94.3 WDBL-TN in addition to the listed 99.7 WWTN-TN. These are the only three stations carrying the Sounds. The Nashville Xpress (AA) are not on radio at all (although they are co-owned with the Sounds). The New Orleans Zephyrs' (AAA) backup station is 1350 WSMB-LA, not the listed 1280 WMSB, which is actually has calls WQUE. The Tacoma Tigers' (AAA) station is in WA, not NB. The Birmingham Barons' (AA) station is in AL, not AB. The Chattanooga Lookouts' (AA) last known flagship was 1370 WDEF-TN. The Jackson Generals' (AA) station on 620 has calls WJDX, not WJDS. The Midwest League (A) did have a Springfield, IL Cardinals last season. The games were on 96.7 WCVS-IL and 95.9 WCNL-IL. That franchise might have moved this season. The Columbus Redstixx's (A) flagship on 540 now has calls WDAK. The Watertown Indians' (short A) flagship station is in NY, not my typoed IN. The Everett Giants' (short A) flagship, KRKO, is on 1380. The New Jersey Cardinals (A) are also heard on 1160 WVNJ-NJ, 1500 WGHT-NJ, and 102.3 WSUS-NJ. The Wilmington Blue Rocks (A) are also heard on 900 WSSR-DE, 1410 WDOV-DE, and 101.7 WNNN-NI.

	<u>Chica</u>	<u>to Cu</u>	<u>bs 1994</u>	Har	y Caray, The	m B <u>re</u>	nnaman, Ro	π <u>Şant</u>	<u>o</u>			
570	WNAX-SD	1250	WIZZ-IL	1410	WGRD-MI	1550	KAPE-MO	98.5	WXXQ-IL			
720	WGN -IL *		WGL -IN	1440	WGEM-IL	1560	WRIN-IN	102.3	WRHL-IL	]		
910	WAKO-IL	1290	WTRL-IL	1450	WFMB-IL	1570	WFRL-IL h	103.1	WAKO-IL			
920	WMOK-IL	1310	KOKX-IA	1460	WKAM-IN		WIFF-IN	104.9	WGEN-IL			
930	WHON-IN		WGH -VA		KENO-NV	1590	KWBG-IA	-	WAXI-IN			
960	WSBT-IN	1320	WNGO-KY	1470	WQSN-MI		WPCO-IN	105.5	KIWA-IA			
1020	WCIL-IL	1330	WRAM-IL h	1480	WRSW-IN	1600	KCRG-IA	107.1	WBNL-IN			
1050	WDZ -IL	1350	KRNT-IA	1490	WDAN-IL		<b>WCWC-WI</b>		WRSW-IN			
1050	WTCA-IN h	1370	KDTH-LA	1500	WGEN-IL b							
1060	WRHL-IL	1380	WCLM-LA	1510	WINU-IL	94.1	WGL -IN					
Milwaukee Brewers 1994 Bob Uecker, Pat Hughes												
	WSAU-W1	_	WHBY-WI		WLDY-WI	1590	WTOQ-WI	97.1	WCOW-WI			
	WMAM-W]	1230	WIKB-MI		WBEL-WI		-	98.3	WCQM-WI			
	WKTY-WI		ACTO-MI	1400	WATW-WI	92.1	WRJC-WI	99.1	WIKB-MI			
	WJMS-MI	1240	WJOD-MI		WBIZ-WI		WRLS-WI	99.3	WIGM-WI			
	WTMJ-WT *		WJMC:WI		WDUZ-WI	92.3	WJPD-MI		WOWN-WI			
	MDBC-WI		WOBT-WI		WRDB-WI	92.7	WDUX-WI	100.1	WDDC-WI			
	WDOR-WI		WOMT-WI	1430	WBEV-WI		WLDY-W1	100.9				
	KCKY-AZ j	1400	KADR-IA	1540	WBNL-IN	96.9	WLBH-IL					
	WLBH-IL		WDWS-IL	1550	KIWA-IA	97.7	WFRX-IL h					
1250	KCFI-IA		WBAT-IN		WJIL-IN b		WMOI-IL h					
	Distal		Di 1004		<b>.</b>							
E00 1	WMBS-PA		Pirates 1994	Lai	nny Frattare,			<u> Blass</u>				
	WMBS-PA WFRM-PA		WCBC-MD		WKWK-WV	1490	WOHI-OH	92.3	WXIE-MD			
	WESA-PA		WKST-PA		WBRD-FL		WESB-PA	93.5	WBNV-OH			
	WVSC-PA		WNAE-PA	1430	WVAM-PA		WMGW-PA	94.7	WELK-WV			
	WYSC-PA WIOO-PA (	1550	WASN-OH		WEIR-WV		WNTJ-PA	100.9	WOOX-PA			
	KDKA-PA *		WFLP-PA		WAJR-WV		WTCS-WV	102.1	WOWQ-PA			
	VMSG-MD	11/0	WETZ-WV	1450	WFRA-PA		WECZ-PA	103.1	WANB-PA			
-	WADC-WV	1340	WCVI-PA		WJPA-PA		WANR-OH	105.5	WPXZ-PA			
	WADC-WV WCCS-PA		WTRN-PA		WMAJ-PA		WANB-PA	107.1	WEXC-PA			
	WCCS-PA WBVP-PA	1750	WHAR-WV		WMBA-PA		WCBG-PA					
_		1350			WZGO-PA	1600	WPDC-PA					
	VTIV-PA VFAW-WI		WIBI-PA WEKZ-WI	1480	WCNS-PA	02 =	IV TO LOT IN THE					
	VTCH-WI	2200	WWIS-WI	1/50	WRDN-WI KFIZ-WI	93.7	WEKZ-WI	-	WISS-W1			
	CXTP-WI	1270	MBIC-MI	1430	WDLB-WI		WDOR-WI		WRLO-WI			
	VPRE-W1		WCOW-WI		WRCO-WI	94.3	WPRE-WI	106.3	WEVR-WI			
,,,,		1270	" COM-MI		wirco-wi	94.5	WRJO-W1					

1010	WSPO-WI	1310	WIBA-WI	1490	WIGM-WI	95.9	WRDN-WI		
1050	WLIP-WI	1320	WTHR-WI	1550	WEVR-WI	96.3	WJMC-WI		
1090	WISS-WI	1330	WHBL-WI		WMIR-WI	96.7	WATW-W1		
			Athletics 1994					_	
	KCNO-CA		KSCO-CA	-	KKTR-CA		KMYC-CA	1490	KBLF-CA
	KFRC-CA *		KXBX-CA		KNNS-AZ	1450	KTIP-CA		KRKC-CA
	KAHI-CA		KJAX-CA	1400	KIID-CA		KVML-CA		
	KBEE-CA		KPMO-CA		KQMS-CA		KOZZ-NV		
980	KINS-CA	1320	KCTC-CA		KUKI-CA	1480	KYOS-CA		
	Kansas City	Royals	s 1994 <u>Den</u>	ny M	athews, Fred	White	e (via Todd l	Brande	enburg)
	KWTO-MO		KTNC-NE		XBTN-MO		KVGB-KS	97.7	KNCY-NE
580	WIBW-KS *	1240	KTUL-KS		кимо-мо	1600	KDMO-KS	99.3	KUTT-NE
610	WDAF-MO		KNEM-MO	1430	KKOZ-MO		KTTN-MO	99.9	KBFL-MO
620	KMNS-IA		KFOR-NE		KCHE-IA		KNCY-NE		KQLS-KS
680	KFEQ-MO	1270	KTRT-OK		KWBW-KS				KCLY-KS
690	KGGF-KS	1280	KSOK-KS		KOKO-MO	92.1	KCHE-IA		KFNF-KS
	KJEL-MO	1290	KLEH-IA		KLMX-NM	•	WCAZ-IL		KLRK-MO
	KXXX-KS		KWLS-KS		KYNT-SD		KMZA-KS	101.7	KIND-KS
	KKOW-KS	1300	кммо-мо	1460	KKOY-KS		KMOE-MO	102.9	KMMO-MO
	KVRN-NE	_	KFSB-MO		KYUU-KS		KTTN-MO		KNDY-KS
	KMA -[A	-,,	KGMT-NE		KERE-MO	92.3	KBUG-MO	103.7	
-	KNEB-NE	1330	KTOD-AR	1480	KZSN-KS	93.5	KLKC-KS	-	KNZA-KS
	WCAZ-IL	4. 4.	KGFW-NE		KXLQ-IA	20-5	KWME-KS		KOMB-KS
	KRLS-KS		KMAN-KS	••,-	KDMO-MO	94.3	KZMO-MO		KCHI-MO
	KRMO-MO		KSRX-KS		KDRO-MO	94.5	KEZU-KS		KNLV-NE
	ксні-мо		KGNO-KS		KTTR-MO	95.3	KCKS-KS	105.5	KELR-IA
	KNLV-NE	1370	KAWL-NE	1510	KANS-KS	77.5	KDKD-MO	10,1,0	KQSM-KS
	KWKY-LA	1390	KAMO-AR	1,10	KMRF-MO		KNIM-MO		KXKX-MO
	KSAL-KS	1,370	KNCK-KS	1530	KMAN-MO	95.9	KCAY-KS		KCOE-NE
	KRMS-MO	1400	KAYS-KS		KLKC-KS	73.7	KAAN-MO	106.3	күоо-мо
-	KVSV-KS	1100	KVOE-KS	1,10	KNGL-KS	96.7	KANS-KS		KFXX-K5
	KYOO-MO	1420	KJCK-KS	1550	KKLE-KS	70.7	KBBE-KS	100.1	III ILI IL
	KOMC-MO	1420	KULY-KS		KNIM-MO	97.7	KAYQ-MO		
		e WIRW	Topeka, not WI	-,		<b>/</b> /	mily ino		
I II C	agaily station i	3 - 10 "	Topcka, not wi	27 I IIII	ions on .				
1	V <u>ew York M</u> e	ets 199					w <u>ie Rose (pi</u>	<u>e-/po</u>	<u>st-game)</u>
					book via Jon				
	WFAN-NY *		WSCM-NY		WCDO-NY	1590	WPSL-FL		
	WHCU-NY		WALL-NY		WPTR-NY	1017	TETRA PER A TOTAL		
930	W17.R-NY	1450	WKIP-NY	1570	WFLR-NY	101./	WBAZ-NY		
		Rosto	n Red Sox 19	94	Toe Castiol	ione. I	erry Trupian	0	
			m 1994 "Score						
560	WHYN-MA		WKOX-MA		WSTJ-VT		WBEC-MA	1510	WNLC-CT
	WTAG-MA		WNAW-MA	_	WINY-CT	1420	WBSM-MA	1)10	WMLC-CI
	WGIR-ME	12,0	WODY-ME		WDEA-ME		WWSR-VT	92.7	WOXO-MY
	WZON-ME		WTSV-ME	_	WNRI-RI	1450	WKXL-ME	92.7	
	WPRO-RI		WMOU-NH	1,000	WSYB-VT	1430	WKRI-RI	99.3	WQDY-ME
	WRKO-MA *		WERI-RI	1/00	WILL-CT	1480	WSAR-MA		WKTJ-ME
	WITO-ME			1400			WMRC-MA	100.7	WTBM-ME
	WLAD-CT	1240	WJOY-VT WHAI-MA		WHMP-MA WIDE-ME	1370		100.9	WCIB-MA
							WEMJ-ME	102.5	WQSS-ME
	WFNS-FL WESO-MA		WARE-MA WYSN-ME		WLTN-ME WMME-ME		WIVLME WFAD-VT	103.1	WDME-MI
	WESO-MA		WEIM-MA		WMME-ME WTSL-ME		WIKE-VT		
	WIPZ-ME		WKNE-ME	1/20	WLIS-CT		WKVT-VT		
114/	- LIZZWIE	1290	WEIGHT.	1420	MITACI		W.W.A.1-A.1		

### Boston Red Sox (SS) 1994 Bobby Serrano, Hector Martinez

950 WROL-MA\* (Carter Radio Network)? -CT Hartford? -MA Lawrence? -MA Springfield? -RI Providence

## Verification Signers

Wayne Heinen nrclog.@filebank.com 4131 S. Andes Way

Aurora, CO 80013-3831

Signatures and other information received upon request

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Freq.	Call	Signer Con	itribu <u>tor</u>	1140	KSOOlb	Vincent Fuhs CtrE	EΒ
540	WGTOlm	Dave Edwards TA	øw	1140	WBXR	Butch Menefee GM	DJ
540	WSTH1	Valerie W. Alexander TrfM	DT	1150	CKOClbu	Nevin E. Grant PD	RT
550	WAYRIZ	Dick Weer D	RT	1160	KSH	John Dehnei CE	DT
620	WTMT	Dean Taylor PD	DJ	1180	WFGNIb	Charles A. Montgomery OpM/VP	P RT
640	KGVWlbu	U/U	ØW	1180	WIDSI	Perry Brown PD	EB
650	HJKHlq	Antonio Garcia PD	EB	1190	KBCOlb	Scott Simmons	EB
650	W/SMqlbmz	Tom Bryant PM	EB	1210	WBIU	Danny Church PD	DJ
660	WFANq	Edward Knapp CE	RT	1240	WTAXlm	Glean E. Hopkins CE	EB
690	WJOXIz	Dawn Morse TrfD	RT	1260	WEKZIz	Van Steiner CE	øw/RT
700	WLW	Paul Jellison ACE	DJ	1260	WNRKqm	Dave Schmidt CE NRC	RT
720	WGCR	Randy C. Barton	DJ	1270	WMIZ1	David Schmidt CE NRC	EB
720	WYMY	Patricia Melton Rodgers NxD	DJ	1300	WJFKlm	Dan Ryson CE	MH
730	WFMW	Danny Koeber PD	DJ	1328	Radio Realty	p Michael Howard P	øw
740	KTRCc	Errol R. Coker CE	DT	1340	KXEOp	Gary Leonard GM/CE	EB
760	WENO	John Wesley	DΪ	1380	WKJVlb	Randy C. Barton GM	RT
770	HJJXI	Antonio Pardo Garcia Gte	DT	1380	WKJVlb	Lamar Owen CE	RT
780	KKOHlb	Martin Stabbert CE	øw	1380	WRBQI	Roger F. Schujman NxD	DT
780	TIRAL	Juan Sepulveda M	DT	1380	WTOBrzu	Gregory Epperson	KT
800	PJBqlz	Sally Park	RT	1400	WJZM	Amy Scott Nx	DJ
840	CMKCI	Sergio Martinez Martinez Gte	DT	1420	KUJlu	Kevin Cole PD	ØW
850	KOAq	Jan Chadwell CE	ÐT	1440	KMAJpuz	Chris Rundel OpM	øw
860	CJBClqz	Diane Belhumeur	RT		WVLDI	Robert Combs CE	DT
890	CJDClz	Jean Braden TrfA	ØW	1460	WCEIIz	David W. Schmidt CE NRC	RT/EB
900	KBIFpu	U/U	WH	1460	WIXNqlbm	Mark Baker CE	RT
900	XEWlb	Miguel Angel Barrientos Valde	zTD DT	1490	WTUP	Rusty Pugh O/M	DT
910	WFNSc	Mark Guthrie	DT	1530	WCKY	Bruce L. Still O/M	DJ
920	XETAAlz	Jose de Leon Flores Gte	ØW	1550	WSERI	Mark A. Crouch GM/CE	RT
930	WLBLI	Vernon R. Alpine CE	RT	1570	KCVRIbm	Damien Thorn CE	ØW
930	WYNIIc	Harold Harris CE	RT	1580	KRZ1pbu	R.E. Lauch GM	Ø₩
960	WAAKlu	Billy D. Martin P	RT	1600	<b>KCRGqb</b>	U/U	øw
_	W/WL1	Nick Russell M	DT			Barry Chafetz VPOp	MH
1020	CCR	U/U	DT	1675	"D"q	William Hensel WD0FQK	WH
1020	CCRq	U/U	RT			Contributors	
1020	KDKA	Mal Check	DJ	DT			Jamaica
1040	WHOq	U/U	EB	DJ	. 3	David Jones	lA
1050	CHUM	B.J. Carnegie CE	DJ	EB /	12.	Eric Bueneman	MO
1070	WEKT	Marshall Sidebottom P/GM	DJ	MH	$^{\prime}$ $^{\prime\prime}$	Mike Hardester	NC
	ZDKk	Miss Stancel Rose	DT	RT	wy	Robert J. Tiara	NC
	KBMRIb	Andy Anderson CE	RT	øw	///	John Wilkins	CO
1130	KBM Rq	A.L. "Andy" Anderson CE	EB	WH '	1	Wayne Heinen	co
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<sup>\*</sup> Flagship station h This station broadcasts both White Sox & Cubs. i This station broadcasts both Orioles & Pirates. j This station broadcasts both Rockies & Cubs.

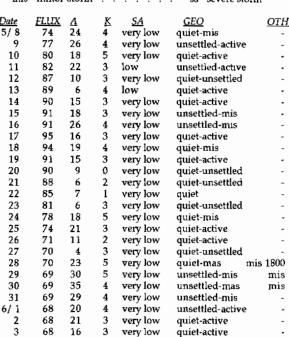
## Geomagnetic Phil Bytheway bytheway@ATK.com Summary

9705 Mary NW Seattle, WA 98117-2334

High "A" values indicate possible auroral conditions 是一个一个人,我们就是一个一个人,我们就是一个一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一

May 8 1994 through June 4 1994

oft copies of this report available through phil_bytheway@atk.com									
GEO - Geomagnetic activity pca - polar cap absorption									
maf - major flare								SA - Solar Activity	
mas - major storm								spe - satellite proton event	
mis - minor storm								ss - severe storm	



very low

unsettled-active



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16

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### Silent Stations ... compiled by Wayne Heinen

These stations have all been listed as silent.. Members who DX near these stations are requested to monitor the frequencies, and if the stations are no longer silent to contact Wayne as soon as possible so

monitor the frequencies, and if the stations are no longer silent to contact Wayne as soon as possible so that the station's listing in the next edition of the NRC Log may be corrected. Thanks!							
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	ergreen AL Si		08/93		WYSE	Bainbridge GA Silent 3/91	
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	ontgomery AL Si		11/92		WPPI	Carrollton GA Silent 2/94	
	chardAL Si		10/02			Claxton GA Silent 11/93	
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1530 WJNS Yazoo City MS Silent		1000 WKYB Hemingway SC Silent 3/92
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1570 KLEX Lexington MO Silent	11/93	1450 WKEL Myrtle Beach SC Silent 5/92
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## Ramsey AM-1 Transmitter Kit

Reviewed by Christopher R. Cuomo

Many of you can remember the mid 1960's when vacuum tube based low-power broadcasting kits by companies such as Lafayette, Radio Shack, and Allied-Knight sold like hotcakes, often to kids who wanted to "play radio" and emulate that famous "boss jock" sound of that era. These kits were simple to build, inexpensive, and readily modified in both legal and not-so-legal ways and helped launch the careers of many radio announcers and technicians.

John Russell Ghrist (N9HVF), in his excellent Chicagoland radio history, "Valley Voices," details the beginnings of his radio career in 1965 at the age of sixteen with "WCYA", an Allied-Knight transmitter that he and friends operated out of his room for several years. For over twenty years no Part 15 broadcasting device ever seemed to match the following that the kits of the mid '60s had, with the exception, perhaps, of Ronco's "Mr. Microphone" toy. ("Hey girls! We'll be back to pick you up at eight!") Ramsey's FM-10 (now replaced by the updated 10-A) and a host of other stereo FM transmitter kits helped to change all that. These kits had all the virtues of their AM predecessors, plus excellent audio quality from the BA1404 IC chip which acts as the heart of most of these kits. With this in mind Ramsey's new AM-1 has some pretty big shoes to fill. Find out below how well it stands up to the challenge.

### Specifications:

Tuning range: 520-1750 kHz
Output power: 100 mw stated
Power Requirements: 9 to 15 VDC at 200 mA

### Ordering:

The Ramsey AM-1 retails for \$29.95 plus \$4.95 for shipping and handling in the U.S., \$6 shipping and handling to all other countries. Empire State residents add 7% sales tax. Send your order to Ramsey Electronics, 793 Canning Parkway, Victor, NY 14564. A matching plastic case is also available for \$14.95, a lot to ask for a plastic case which will provide no shielding of RF interference to the sensitive oscillator. For about the same price, you can build your own using Radio Shack's \$6.99 Deluxe Metal Utility Cabinet (Catalog no. 270-253A) plus a SPST on/off switch and antenna, audio, and power connectors of your choice. If you have access to a drill press, I suggest building your own case. I built mine in about an hour. One helpful hint for those of you case builders who plan on using a SO-239 connector for your RF output: If you don't have a large enough drill bit to make the hole for the jack, the softness of

the aluminum in the aforementioned Radio Shack enclosure will allow you to drill the hole with the largest bit you have and then use a reamer to enlarge it. When reaming, work in small steps, checking every so often for when the connector will fit in the hole. My kit arrived nine days after ordering. Kudos to Ramsey's customer service, which is topnotch, and I have never waited more than two weeks to receive an order from them.

### Construction:

The twenty-page instruction manual supplied with the kit is also available separately for \$5. It is clearly and concisely written in a light-hearted style to guide a novice-kit builder through the thirty-plus steps in the building of the kit. Basically, if you can solder and can tell a capacitor from a resistor and an inductor from a transistor, you can build this kit with no difficulty. If you will not be using Ramsey's custom case, and instead using a case of your own design, do not install switch S1, and the jacks J1, J2, and I3 unless your case will accommodate these components in the same positions. You may have to connect chassis mount jacks and switches using short jumper leads from the component to the board as I did. A few inches of 50 coaxial cable will work well in connecting the RF output jack you will be using to the board. Twist the shielding into two braids and solder them to any of the three ground connections on the board's slot for 12. Connect the center conductor to the center hole. Do the same with a short length of audio cable to connect to the slot for J1.

The Ramsey AM-1 uses a resonant tuned circuit consisting of two or three capacitors in parallel with a variable inductor. The kit comes with a complete set of capacitors to enable the user to cover any frequency in or adjacent to the expanded AM band (two  $.0022\mu$ F, and one each of the following values: .001µF, 470pF, and 220pF). Selecting a combination of these caps allows tuning a portion of the band. I suggest that you purchase a set of temperature-stable capacitors to replace the drifty ceramics provided. Computer grade, silver-mica, or NP0 types will work better and a full set will only cost about a buck or two. At RF frequencies, even a slight change in capacitance can cause your output to drift. Leave the leads on the caps slightly longer than normal in case you decide to change frequencies. This way you'll be able to re-use them. You may be able to tune frequencies much lower and higher than the bands

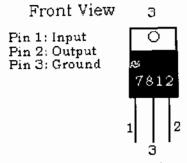
indicated by using different values and combinations of capacitors. I have heard of one user modifying his to work in the 7.4 MHz band favored by SW pirates, but one must consider whether anyone will be listening to out-of-band frequencies. Tuning up the transmitter is a bit tricky, but the frequency stability is relatively good all things considered using computer grade caps in the oscillator circuit. Use a frequency counter or a digital receiver tuned to your intended operating frequency to monitor your output while you tune 'er up. I really can't agree with Ramsey's claim of "tune it and forget it" so I would check the output every 30 minutes of broadcasting or so, just to be sure. I found the frequency did not drift noticeably after 30 minutes of operation.

The Ramsey AM-1 uses six transistors, all 2N3904s. The '3904 is your basic jack-of-alltrades (and consequently, master-of-none) transistor. They work decent and are inexpensive, especially when you buy them in vast quantities as Ramsey undoubtedly did. One may be able to improve the performance of the AM-1 by replacing some, or all of the supplied transistors with ones more specialized to the tasks they perform. If you're asking, "Is there any way I can raise the power of the AM-1?" (Arr, ye matees, so thots yer game izzit?!), well, short of using an external linear amplifier, this might work. If anyone has a transistor specs book, I'd be interested to hear what you come up with. The TO-92 case transistors supplied have a maximum power rating of around 600 mW, so considering the stated 100 mW output, you do not have to worry about burning them up if your SWR is too high, which it likely will be if you follow FCC Part 15 regulations and only use a 10 foot "long"wire as an antenna. This is something else to consider for all you power-hungry pirates out there. The output impedance of the AM-1 appears to be 50. Using a fifty foot long wire strung out on the roof of my house, I was able to cover several blocks. Ideally, the antenna should be like licensed stations use; i.e., sticking straight up in the air and not parallel with the face of the earth. Please let me know about any experimental antennas you try out. The AM-1 manual provides sketchy details on making a loading coil for the antenna but doesn't give any formulas, one of the manual's few flaws.

Early versions of the AM-1 were built to be powered by a nine-volt battery and included a snap-on connector and battery clip. In the current revision, Ramsey suggests that you use a 12 volt power supply or a battery pack made up of eight 1.5 volt cells, presumably C or D cells. (Keep in mind that rechargeable nicads have an output of 1.25 volts typically so you might have to use nine or ten of them in

series, a rather expensive proposition.) The coaxial type power connector supplied mates with the typical plug found on inexpensive wall adapters. These work well and are very inexpensive. I found one for sale at a flea market for \$2.50. If you decide to use one, keep the following in mind: Look for one with an output of 12 to 15 volts DC at a current of at least 300 milliamps. There are a lot of 12 volt AC adapters out there that look similar at first glance. Also check pin polarity. The AM-1 is designed for inner connector positive, outer ring negative. If your supply has the opposite type of plug, you can simply cut the plug off, leaving about two inches of wire or so, turn it around and solder on a new plug or reverse the leads on the old one and connect it back. Make sure all solder connections are insulated with PVC tape or shrink tubing. Your wall adapter is probably unregulated. If so, you must make the following quick and easy modification to the AM-1. You will need a 7812 voltage regulator IC, available at Radio Shack for \$1.19, part number 276-1771. From the front of the chip (with the printing facing you), pin one (input) is on the left, pin two (output) is on the right, and pin three (ground) is in the center. Connect the power supply tack to pin one and the positive wire to pin two. Pin three goes to any ground point on the board. I put pins two and three of my 7812 in the slots designed for use with the power jack supplied with the kit and bent pin one up on an angle, away from the board and chassis and connected the positive lead to it. See the illustrations below for details. Of course if you are using Ramsey's custom case you will not be able to put the IC inside, one more thing to consider when choosing a case for your transmitter. Operating without the IC will cause a loud 60 cycle buzz in your transmission, that same electrical noise DX'ers dread in their receivers. Installation of the 7812 should clear this up. If there is still a buzz in your audio, try replacing C15, the 220F electrolytic with one a 1000F or higher, keeping in mind the size limitations of your case. Actually, the higher the capacitance the better, although there is a point of diminishing returns. Get one with a voltage rating of at least 15 VDC and observe polarity! I have seen 2200F 25 VDC caps small enough that they might fit the Ramsey custom case. You might also put a small value RF choke in the positive lead. I used a moulded 3.3 H in mine. though the Shack's wound 100 H coil might work better, if you can get it to fit inside. If this doesn't help, check your power supply. With a multimeter, which any kit builder should have, measure the output, it should be between 12 and 15 volts DC. Now measure it on the AC volts setting. You should get a reading near zero. Anything else tells you

your supply is defective. If the supply is in working order, try moving the transmitter to another area. RF interference emitted by motors, televisions, and the AC lines themselves can find its way into the transmitter, especially if it is in an unshielded plastic housing, and be amplified along with your output. The modifications specified above are a good idea regardless of what power supply you are using.



7812 Voltage Regulator

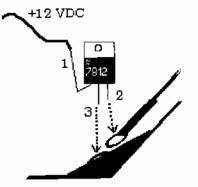


Figure 1: 7812 Layout

Figure 2: Installation of the IC into the slot intended for J3

Audio quality of the AM-1 is very good. Adjusting R12, the level adjustment potentiometer, is a bit touchy. Basically, set it to a point where the AM-1 sounds on a nearby radio as "loud" other local stations.

Be advised that the Ramsey is lacking in harmonic filtering. I was testing on 1620 kHz and monitoring the twentieth harmonic on 32.4 MHz. If you are operating yours at the low end of the band you could be interfering with a local station on a multiple of your frequency. For example, if you are operating on 540 kHz, you will generate harmonics on 1080 and 1620 kHz. 1 am working on a harmonic filter for the AM-1. If you have any ideas let me know.

Summary: Whether or not you purchase the AM-1 should hinge upon one factor: how you intend on using it. If you have no tools and/or no desire to experiment and modify your kit or just want to play deejay, then save the extra five dollars and buy the FM-10A. You'll be pleased with the audio and coverage and more likely to find listeners with a quality stereo signal. The AM-1 is a good kit and meets all expectations, and ideal for the novice or experienced kit builder and I heartily recommend it to any kit builder interested in experimenting with the design. There are a wide variety of modifications you might want to experiment with, not just raising the power, but audio and antenna experiments as well. How about QRP use, or use as a 'medfer' CW beacon or as a TIS? Whatever experiments you do with the AM-1, tell me about them at the address given below or in Musings. I'm sure a lot of DXers would like to know about them. If you're still undecided about buying, I will have my assembled AM-1 at this year's NRC convention in Nashua for you to see and hear it first hand. If you have any questions send a SASE to Christopher Cuomo, 670 Third Avenue, Verona, PA, 15147-1349.

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### Drake R8: Increased Dynamic Range, Mod. 2 ... by Dallas Lankford

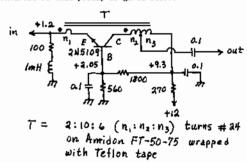
In my DX News 60, No. 27 — June 28, 1993 article, "Drake R8: Increased dynamic range," I described a simple method of increasing the dynamic range of the R8. Subsequently, I discovered that the improvement I reported may not be so dramatic for some R8's when I bought another R8 RF PC board to have on hand for "before-after" comparisons. This new (unmodified) RF board had substantially better 3rd order intercepts than my original RF board before I modified it, namely about -2 dBm with preamp on, and +10 dBm with preamp off. To satisfy my curiosity, I restored my modified RF board to original, but with a new SBL-3 mixer and new J310 FET, and measured the intercepts. They were about -2 dBm and +10 dBm respectively for preamp on and off, about the same as for the newly arrived RF board. Apparently the SBL-3 mixer or J310 FET or both were defective in my original R8. Consequently, I recommend against doing that mod because the improvement in dynamic range over an unmodified R8 does not justify the effort, assuming that your R8 is not defective, as mine apparently was originally.

The simplest way to improve the R8 out-of-band dynamic range is to use a low-gain tuned preselector. I have not tried this approach myself, but I have been told by several R8 owners that it is a simple and effective solution for the R8 dynamic range problems. What preselector should you use? Again, I have no first hand experience with tuned presmps. The MFJ-1020A indoor active antenna might be suitable; it has been been rated a excellent when used as a preselector in some reviews, though puor as an active antenna. It tunes 0.3 - 30 MHz in 5 bands (the MW band is split into 0.3 - 0.7 and 0.7 - 1.6 MHz), and sells for \$79.95. MFJ also sells an MFJ-956 SW/WM/LW preselector/tuner for \$39.95 which might be suitable. It is apparently passive (no smp), and tunes 0.15 - 30 MHz in 4 bands.

A tuned preselector improves dynamic range by reducing the signal levels of the offending stations. Thus, the preselector approach is effective against signals 100 KHz or so away from the desired signal in the MW band, and several 100 KHz away from the desired signal in the SW band. A preselector is not effective against nearby signals, and does not improve the close-in dynamic range.

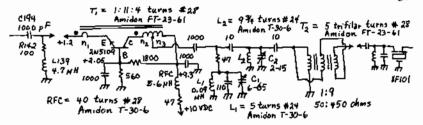
Despite the disappointment of my first effort, I have remained interested in substantially improving the R8 dynamic range. The MiniCircuits data book suggests that the SEL-3 mixer should be capable of considerably higher 3rd order intercept than the R8 achieved, namely about +18 dBm (with preamp off). The amount of improvement with preamp on depends on preamp gain and other factors.

My second attempt at improving the R8 dynamic range began with the preamp. After extensive measurements, I had concluded that the R8 preamp had too much gain, and it was too noisy. The original RF preamp was removed and replaced with so-called noiseless (transformer feedback) amplifier set up for 9.5 dB gain. A schematic of this preamp is given below.



Measured preamp-on sensitivity in the 6 KHz BW, AM mode, 400 Hz modulated 50%, with the shield described in my article (same DX News above). "Drake R8: Type B spurs elimination," was 0.35 microvolts for a 10 dB S+N/N at 1.8 MHz. Without the shield, preamp-on sensitivity was 0.55 microvolts.

Next, the J310 lst 45 MHz IF amp was replaced with a noiseless (transformer) feedback amp set up for 12 dB gain, followed by a diplexer, followed by a 9:1 broadband step-up transformer (the lst 45 MHz IF transformer was removed). A schematic of this mod is given below.



The exact circuit of the 45 MHz crystal filter (XF101 and preceeding parts) is unknown. The parts on both of my RF boards do not agree with the R8 service manual schematic. I was told by a Drake engineer that the input impedance of the crystal filter is 500 ohms real, so I used a 1:9 step up transformer, which is a reasonably good match. I also used Cl94, R142, and L139 from the original R8 lst 45 MHz IF amp to save space. RFC is probably not necessary because there is already good decoupling of the +10 VDC line on the R8 PC board at the lst 45 MHz IF amp, but I wanted to be sure that I had the 2M5109 feedback amp well isolated from the DC line.

The 3rd order input intercept, 10P3, of the original 1st 45 MHz IF amp (tones injected at PlO4) was +18 dBm. The ICP3 of the above modified 1st 45 MHz IF amp was +29.5 dBm. External stand-alone measurements of a push-pull version of this amp have shown that it is capable of +40.5 dBm ICP3 when it is terminated properly, so perhaps some further improvement is possible for the ICP3 of the lst 45 MHz IF amp.

The last step in the modification was to replace the RB diplexer following the SBL-3 lst mixer. The original diplexer is given below on the left, and the new diplexer is given below on the right.

Several types of diplexers were tried following the 1st mixer. The one above, derived from a 9 MRz diplexer in Fig. 11 of Chapter 6 of Solid State Design by W. Hayward and D. DeMaw, gave higher ICP3 and was easier to tune than the others. Practically everyone agrees that the 2nd harmonic termination (L1,110 pF, C1) should have a high C/L ratio, and that the ratio should be about what I used. However, there does not seem to be general agreement on how to implement the signal path part of the diplexer. So perhaps further improvement is possible in this part.

All tuned circuits of the diplexers should be tuned to resonance. This is easy to do for the signal path part (L2,C2) because there is a very pronounced peak in signal level when C2 is adjusted (with a CW signal generator connected to the R8 antenna input terminal). A word of caution is in order concerning the signal path tuned circuit, L2,C2. The inductor L2 is about 0.4 microHenrys, which is tuned to resonance at 45 MHz with about 30 pF of capacitance. Due to the nature of the capacitive coupled circuit, the coupling capacitors are added to C2; they are part of the resonating capacitance. When distributed capacitance of L2 is included together with stray capacitance, very little additional capacitance is need to tune the circuit to resonance. With the turns spaced evenly around the toroid (L2), resonance was obtained with about 5 or 6 pF from C2. The point is that there may be enough variation in T-30-6 toroids to require addition or subtraction of s turn to or from L2.

Final adjustment of the diplexers may be done with a two tone IMD measurement system with two tones of about -10 dBm spaced about 40 KHz apart in the 1.6

to 2.0 MHz range. However, a high dynamic range IMD measurement system is required for this approach. A better approach is to adjust C2 of the mixer diplexer for minimum intermodulation distortion on some MW band distortion product in the 1.8 to 2.0 MHz range with the presum turned on. With this approach, and the R8 in CW mode, on a quiet morning, the IMD3 on 1.85 MHz due to KRUS and KWKH (2x1.49 - 1.13) can be completely eliminated. Other IMD3 which I used to hear at night (from many sources) are now completely gone from the 1.8 - 2.0 MHz range.

With the diplexers adjusted as described above, and tones spaced about 40 KHz apart in the 1.6 to 2.0 MHz range, preamp-off ICP3 was about +20 dBm, and preamp-on ICP3 was about +10 dBm. These ICP3 values hold up to about 10 MHz, and then begin to fall off slowly to about +13 dBm preamp-off and about +6 dBm preamp-on at 15 MHz. For comparison, using my unmodified RF PC board, I got +12 dBm preamp-off and -2 dBm preamp-on ICP3 at 15 MHz. While making these measurements, I observed that there was considerable variation in ICP3 between the 2xfl - f2 and 2xf2 - f1 lMD3, so I took the worst of the two ICP3's for the values above.

The above mods also improve the 2nd order performance of an R8. For example, the preamp-off ICF2 of a stock R8 is about +40 dBm at 510 KHz for tones at 980 and 1490 KHz. The corresponding ICF2 of a modified R8 is about +53 dBm, which is about what an SBL-3 mixer is capable of when properly terminated according to MiniCircuits data. The preamp-on ICP2 of a modified R8 at 510 KHz due to 980 and 1490 KHz tones is about +43 dBm.

Although these mods have made the R8 3rd order intercepts with preamp-on about as good as an unmodified R8 with preamp-off below about 10 MHz, I have changed my mind about rewiring the R8 to leave the preamp permanently on, as described in my previous article. A better solution, which I have not done yet, is to install an on-off switch on the rear panel so that the preamp can be switched between always-on and R8-original. This should be implemented so that the switch can be unplugged from the RF PC board to facilitate easy removal of the PC board. The best solution, of course, would be for Drake to change the software so that the preamp can be enabled below 1.8 MHz.

As much as 6 dB additional increase in the 1st mixer 3rd order intercept might be possible with square wave local oscillator drive as suggested by technical correspondence, page 43, OST, October 1988. However, the feasibility of changing the R8 1st 10 to square wave drive has not been established. A push-pull 1st 45 MHz IF amp would probably be required in this case.

### Addendum 11 VI 94

The discussions above were written on 3 III 94 and revised on 8 III 94. At about the same time, the work described in the following addendums was begun. At first, the subjects of increasing R8 dynamic range and increasing R8 50 KHz IF image rejection seemed unrelated, and I hesitated to include the two topics together in a single article. But as you will understand by the end of this article, the two apparently different topics are related because the R8 50 KHz IF image rejection mod continued to evolve, and finally interfaced with the R8 increased dynamic range mod 2. I do not know whether a variation of the 50 KHz IF image rejection mod will work stand-alone, i.e. without modifying the 1st 45 MHz IF amp. The original R8 1st 45 MHz IF amp has a higher impedance load (the tuned LC circuit for the J-310 FET), and higher impedance circuits are more prone to RF leakage than lower impedance circuits. My best guess is that the 50 KHz IF image rejection mod would not be as effective fused with the original R8 1st 45 MHz IF smp.

### Addendum, 13 III 94

After completing the mods described above, I turned my attention to one of the remaining R8 defects, inadequate image rejection. Several R8 reviewers have rated the typically 80 dB image rejection of the R8 (for the 50 KHz IF) as excellent, but that really is not the case at lower frequencies where there are exceptionally strong signals (in the MW band, and in some of the lower SW bands). A really outstending receiver, like the R-390A or NRD-525, has 100 dB image rejection in the MW band, and the image rejection tends to fall off slowly as frequency increases. For example, the 455 KHz image rejection of my NRD-525 has about 100 dB for the 580 KHz image of 1490 KHz, about 90 dB for the 1090 KHz image of 10.000 MHz, and about 74 dB for the 19.090 MHz image of 20.000 MHz. For my R-390A, the 455 KHz image rejection is in excess of 100 dB at all frequencies, the variable 17.5 - 25 MHz IF image rejection is in excess of 100 dB at all frequencies for which it is used (0.5-8.0 MHz tuning range), and the 2-3 MHz variable IF image rejection varies from 90 dB at 10 MHz to 76 dB at 20 MHz.

The obvious soultion for the inadequate R8 image rejection is to add additional filtering in the 45 MHz 1st IF signal path. But I had tried that before, without success. Eventually it dawned on me to do what I have done before to test for signal leakage when implementing filter mods, break the signal path. And I got lucky end broke the signal path at C176 and C175 (by removing them); with the path broken at this point, the signal was down a mere 40 dB. The indication was that the input circuit of the image reject circuit was acting as an antenna. To test that hypothesis, I removed the input part of the image reject circuit R140, L146, C139, L147, C188, C190, C191, L156, L157, and C208; see the schematic below. With these parts removed, the signal was down in excess of 100 dB. My initial inclination was to rebuild the image reject input circuit in a small RF tight box and reinstall it. Before I started on that project, I decided to remove the remaining parts fo the image reject circuit just to see how bad the bare-bones image rejection really was. So I took out R160, R161, R162, C232, L159, L170, C242, C233, C241, L171, L172, C234, and R155, and installed jumpers to enable one of the SBL-1X 2nd mixers,

You can imagine my surprise when the image rejection improved with the image reject circuit removed, to about 90 dB.

Next, I fabricated a small PC board adapter with two impedance matching transformers and one XFI01 45 MHz crystal filter and installed the adapter in some convenient holes formerly occupied by the image reject input circuit. The image rejection went up to just a tad over 100 dB. The completed mod is shown below.

At first I mistakenly concluded that the image reject circuit of the R8 did not work. To test this hypothesis, I removed the image reject circuit from an otherwise unmodified R8 RF FC board which had 80 dB image rejection before removing the image reject circuit. After the circuit was removed, the image rejection dropped to 54 dB. My present hypothesis is that the changes I made to the 1st mixer diplexer and 1st 45 MHz IF amplifier, as described above, are responsible for the improved 50 KHz image rejection. To test this hypothesis, I will need to implement those changes on this second RF PC board. Unfortunately, at present I am without some of the parts need to do those changes.

Unintentionally, two crucial aspects of the image reject mod were omitted from the discussion. I had rewound L128 (the last 45 MHz IF transformer) with 9 3/4 turns #24 close spaced at the bottom (when mounted on the PC board) of the T-30-10(I think) toroid, and I had replaced C174 by a 6-60 pF ceramic trimmer (Mouser 24AA024, modified by trimming off parts of the mounting lugs and reworking the trimmed lugs with an India stone so that the lugs would fit properly in the PC board holes). I discovered these omissions while modifying the "new" PC board. The C174 change is probably not necessary, but the Mouser 24AA024 trimmers seem like higher quality trimmers than those used in the R8. When mounting the trimmer, be sure to mount the "ground" lug in the "ground" PC board hole. Drake production line workers did not seem to pay much attention to details like this; the original C174 was mounted incorrectly.

With the IF amp change, but L128 unchanged, image rejection was improved from about 54 dB to about 66 dB. After L128 was changed as described above, image rejection improved to 80 dB.

The "new" RF PC board I received from brake was missing the small shield which covers the bottom of the crystal filter XF-101/XF-100. I don't know if this is a production change, or if I was shipped an imcomplete RF board. In any case, omission of the shield degrades potential image rejection. I febricated a similar shield out of copper plate and installed it under tension, without soldering it in place. The image rejection improved to 86 dB.

All of the above image rejection values are without the crystal filter installed at the input to the SBL-IX 2nd mixer. With the additional crystal filter, image rejection was about 100 dB, maybe a tad less.

It would appear that the primary cause of poor RB image rejection Is due to radiation from the high Q inductors of the 45 MHz IF transformers L140 and L128. My mod eliminated L140 altogether. Examination of the PC board in the vicinity of L128 suggests that extending the ground plane under the shield, and using a solid shield (no hole in the top) might improve image rejection further. Also, surrounding the input and output traces of the crystal filter XF-IDI/XF-IOO with ground plane might improve image rejection further, and a more complete shield across the bottom of the filter might also help. This evening I have been eyeing L138, the inductor of the 2nd 45 MHz IF transformer and wondering if rewinding it might further increase image rejection.

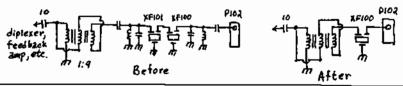
L128 does not actually have to be rewound because it comes with 11 3/4 turns #24, spaced evenly around the entire toroid. You merely remove two turns, adjust the spacing to close-spaced, trim and re-tin the winding ends, and reinstall it.

All of the circuits above were fabricated on small PC adapter boards and mounted as close to the R8 PC board as possible. The ground lead and high impedance lead of T2 of the 2N5109 IF smp were mounted on the R8 PC board in existing holes for 1140, and the low impedance lead was connected to the nearby adapter board. No special shielding or layout was used for the crystal filter (T/XF-101/T) at the input to the 2nd mixer SBL-IX, though the input transformer, crystal filter, and output transformer were laid out in a straight line, and very short traces and adapter leads were used.

I don't know if you can buy a single XF101 filter from Drake. When I inquired about the filter, I was told only that a crystal filter set, consisting of a matched pair of 45 MHz filters and a 10.245 MHz filter (for FM) could be purchased. The price last year was about \$25. You should inquire about current price and availability.

#### Addendum 2 VI 94

After further experiments with the R8 image rejection, and further thought about the nature of the problem, I have decided that the best way to proceed is to remove the undocumented surface mount components associated with the two-filter 45 MHz crystal filter, remove one of the filters, and use the removed filter at the input to the 2nd mixer (after removing the image reject circuit as described above). With this approach, the image rejection is about 100 dB, which is about as good as can be achieved with any of the approaches I tried. This approach obviates buying another 45 MHz filter from Drake. The original two-filter 45 MHz crystal filter circuit in an unmodified R8 simply seems like a bad idea to me because the amount of image rejection from that circuit depends on the geometry of the PC board layout and the geometry of the IF transformer windings, which in turn determines the amount of phase cancellation, and thus the amount of image rejection. If my analysis of the situation is correct, it is a very unsatisfactory situation, and there is no need for two filters where they were used. My present modification to the original 45 MHz crystal filter is shown below.



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# Radio Pete Kemp (KZ1Z) PeteKZ1Z@AOL.com P. O. Box 73 Bethel, CT 06801-0073

News of the radio industry, of interest to DX ers

Greetings all ... KVET, Austin, Texas, has a news sports-talk show in the 5 to 7 slot weekdays. Sports Day will be hosted by Jeff Ward ... Former KLOS DJ Damien has signed on for overnight chores on Unistar's Adult Rock and Roll Network ... KIKK Houston's Barry Michaels has signed on as ABC/ SMN's Hot AC morning personality ... Some Urban stations are beginning to drop Gangster Rap from their play lists ... The Armed Forces Radio Network has finally agreed to carry a one hour version of Rush Limbaugh on their network ... The Voice of America is selling its 100,000 watt relay station complex in Belize. The 240-acre site called Point Orange will go off line by the end of March ... Amy Warner is now doing overnights on WTPA in Harrisburg ... "In Focus" hosted by David Kelly and Ray Newman has begun on the Sun Radio Network, Sundays 3-4 pm (ET.) ... Trivia Addicts take Note: WLS began its Top 40 Format on May 2, 1960 ... CFRB-1010 has launched a Daily Fax Newspaper for its listeners and key people in the media ... The Youth Network has had a name change to the 12-24 Radio Network ... After years of evaluation, court suits and foot dragging, the FCC has finally announced that C-QUAM is the standard for AM Stereo ... The Radio Advertising Bureau (RAB) has announced that radio advertising revenues for the third quarter of '93 were up over 7 percent over the third quarter of 1992 ... the Top Five AMers in the latest St. Louis ratings are KMOX-1120, WRTH-1430, KXOK-630, KATŽ-1600 and WIBV-1260...Speaking of WIBV, they're now carrying the G. Gordon Liddy show in the St. Louis area...KSD-550 has signed on with the USA Radio Network for overnight talk, the third area station to do so (WBGZ-1570 and WGNU-920 are the others). Jim White celebrates 25 years with KMOX-1120 in 1994, he's a licensed Ham as W0NJB...KFUO-850/99.1 has purchased KSLH-91.5, with the plan for 91.5 to simulcast the 850 spot, and go 24 hours with KFUO-850's Lutheranoriented Christian format (the AM still has to sign off at KOA LSS). KFUO will celebrate its 70th Anniversary in 1994, having gone on the air in 1924 sharing time with KSD on 550, then moving to 850 in 1948. The Lutheran Church-Missouri Synod will own the two oldest FM stations in the market; KFUO-FM has been on since 1948, KSLH first signed on in 1950, KFNS-590 is back in Stereo, after two weeks in mono. The deal is that KSD-550, KFNS-590 and WESL-1490 set aside a week or two per year for maintenance of their C-QUAM exciters (KSD and KFNS set aside their time in December, while WESL sets aside maintenance time in June or July); so for a week or two a year, these stations are in mono. The New Life Evangelistic Center, who owns TV stations in St. Louis and Columbia/Iefferson City and an FM station in Eureka Springs, AR, has purchased KMRF-1510 Marshfield, MO, and has gone to a religious format. The St. Louis-based religious group, headed

by Rev. Larry Rice, is known for using its broadcast facilities as training grounds for once-homeless people to learn a host of broadcast skills. This courtesy of the New Life Zoa Free Paper ... Congratulations to all of those AM stations who have performed valuable public service support with the weather-related problems all across the country. WLAD-800 even had a spot featuring morning man Pete Summers inviting listeners who had tuned in for all the snow/cold weather cancellations to stay tuned to the station in the future ... The soon to be divorced Curtis and Lisa Silwa, recently axed in the morning WABC-770 slot, have managed to stay on their feet. Lisa has signed on with WQHT-FM for a 9 to 10 a.m. Sunday Show. Curtis is rumored to be heading for New York City's Municipal Station WNYC. His projected moved has been fueled negatively in the Big Apple Media. The new mayor has already stated that he wants the city out of the radio-ty business. WNYC staffers don't want Curtis, as he doesn't fit the station's "highbrow" image, and they view this as just political patronage ... Westwood One is now the official owner of Unistar Radio Networks. This very interesting in light of the fact that Westwood has just reported a net loss of \$29.9 million dollars for its last year ... Just when parents think that they are about all Barney-ed out, Bedtime With Barney hits the airwaves on Sunday evenings via MJI Broadcasting as the syndicator. That's right, Barney is about to read original and class children's bedtime stories to its younger audience members ... WMMM has moved its studies to 1 Lois Street, Norwalk, CT 06850, from neighboring Westport ... Christine Sullivan is the new morning co-host/news anchor on WSNY in Columbus, Ohio ... WCBS news anchor Lon Landis is moving west to ply his craft on sister station KCBS ... WTOP in our nation's capitol is celebrating its 25th anniversary as an All-News station ... The National Broadcasters Hall of Fame is moving its headquarters from New Jersey to Los Angeles ... The FCC has issued a Notice of Inquiry (NOI) concerning rules changes in the area of performance and maintenance of AM directional antenna systems, Docket 93-177 ... IMUS in the Morning is gaining more markets. He has just been added to KHTK, in Sacramento, and WARX/ WARK in Hagerstown ... Jo Meader, formerly known as the Rock and Roll Madame while at WXRK-FM in the Big Apple, is returning to the airwaves, this time co-hosting a one hour show on WABC, with Dr. Wally, discussing home repairs. What a switch!

If you would like to contribute to this column, I may be reached at the address above, via CompuServe 72376,2557, Prodigy PFVK52D, InterNet PeteKZ1Z@AOL.COM, the FIDO system in the Shortwave, Ham or Broadcasting echo areas, The Oracle 1:141/1050, or amateur radio packet, KZ1Z @ K1UOL.CT. So much for now.

### Dave Schmidt P. O. Box 11502

Wilmington, DE 19850-1502

Times are local per Muse; submit double-spaced only.

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.

At the suggestion of PLS, we wanted to put a short blurb in at the start of the column this month. We very deeply appreciate the continued support of the column by all, and very much like having input from all. If you read the small print above, it requests that items are double spaced, which is done 99% of the time, it makes it so much easier for me to transfer the info to the column. If you hand write your report, that is also fine, but please leave a line between your lines. DX related matter should be the highlight, but general radio items, such ac data on receivers, techniques for listening, helping ID stations, changes, etc. are very much welcome! That little bit on your part makes a real big difference on getting the column out on time and help keep your editor happy! And now on with the show:

NEAL A. PERDUE - 402-1 SLAUGHTER ROAD - MADISON, AL 35758-2038 - - - - - Greetings to all after a lengthy absence of 11 YEARS! I've DXed about every band there is since 1969, was quite active in BCB DXing and a NRC member from 1981-83. At that time, I was lucky enough to live on a rural mountaintop and used a Halicrafters SX100 with an SM2 & wedge loop. That's history. I'm now using a Superadio III barefoot and a Panasonic RF2900 loosely coupled to a 100 ft. wire, the latter being used mostly to check frequency readout on the III. The GE has hetrodyne whistles at about 910 & 1360 khz. If the IF frequency is 455, that would be very close to 2 & 3 times the IF. Is this problem common in this receiver? I recently counted my stations heard and came up with about 700. That included about 20 call-changes and that figure would grow quite a bit as there have been a zillon such changes since 83. I admire those who are willing to give all it takes to verify stations by the thousands but I don't have the patience or money required to do that. If I know I heard 'em, that's good enough for me! I'm honest with myself about it. My work schedule does not permit sunset DXing, & I miss that. My listening hours are restricted to about 9PM til 3AM local time. I've always felt pretty lost when DXers MUSE and list their new catches by frequency and call letters only. That's meaningless to me because I haven't been in the hobby long enough to memorize the locations of the stations, so my reports will include that info plus at least the state for readers who feel as I do about it. I'll get on to my new catches: WDAF-610 (MO), WMLD-1160 (GA), WBNS-1460 (OH) & right here in Madison, WBBI-730 with CNN news 24 hours a day, 7 days a week. New calls heard are WYFN-980-TN, WODZ-680-TN, KKOW-860-KS, WWOK-1280-IN, & KBIS-1010-AR. A log of possibly KEDA-1540-TX in Sept. will have to remain tentative as KXEL killed them with announcements & ID on the hour. I'll try to check in each month if anything new is heard. All for now! (And a welcome back to you, Neal, glad to have you 'home' with the NRC. Neal was an active DDXD name while I had the column in the 80's, and we hope it will become a regular here!-DWS)

BRUCE REYNOLDS - 917 GOODWIN AVENUE - SAN JOSE, CA 95128 - - - - - I am just back from a week's trip to Guam via HI for a conference. Guam is truely a DXers paradise with on 3 local stations and 2 from neighboring Saipan audible in the daytime. At night, the Japanese stations are particularly strong and numerous, but also many Aussie stations were in well, especially around sunset before the Japanese signals gained strength. Among those noted were: 2BL-702, 2NR-738, 3L0-774 & 4RK-837. 2BL was the strongest and most consistent of the lot, I got a good tape of them. Among the locals, KGUM-567 has talk, both local & satellite, including the ubiquitous Rush twice daily (there is no escape, even in the Pacafic Islands!) & CBS news on the hour. KUAM-612 has a lot of Chamorro (local language) programmong & music, with some CW & other varieties added. KTWG-801 & KSAI-936 feature Christian music & religion, although the latter seems to do more the way of local informational programming. KCNM-1053 is mostly CW ('Coconut Country') with some island style music, too. Their signal is rather weak on Guam. In HI, KULA-1460 is silent and its sale is under negotation. KOHO-1170 is also silent. The new KJPN-940 has a rather limited schedule (in Japanese). Sign on is 6AM local time and they were noted off by around 8PM. Sign offs noted were KAHU-1060 at 10PM & KIAM-870 at midnight to return at 5AM. KHNR-650 has CNN Headline news, while the newly moved KHVH-830 has a news/talk format. The station they changed frequencies with KIKI-990, is playing oldies. With KDEO gone, KHLO-850 seems to be the lone CW station in the islands. My impression was that there is more HI music on the air now than when I lived in Honolulu 10 years ago, particularly on the neighbor island stations. Back in the Bay Area, as of 6/29, KKH1 is still occupying 1550 & KMBY-1540 is still silent. 73

37 JOHN R. MALICKY - 995 SHADYCREST ROAD - PITTSBURGH, PA 15216-3046 \_ - - - - In the past week & a half, KDKA-1020 made local news. 1st, on 6/17, a historical landmark was placed in Wilkensburg Commons, near the sight of the origional station set-up in the E Pittsburgh Westinghouse pland and was broadcast in the afternoon, though nothing appeared on KDKA TV news or the next days paper. Then today, 6/28, both the AM & TV reported the tearing down of the main 720' tower (built in 1939) at the Allison Park transmitter site, to be replaced by a new & better one in 3 weeks. There was, of course, much hoopla & partying by former & current staff members. This occured at 3:49PM during the Pirates-Cubs ball game, though the game was not interupted unless it happened quickly and I missed it. Naturally, what they don't mention is that the station has a back-up tower to stay on the air! And I thought only NRCers got excited when a tower falls! Now, a thank you to ERC for asking (#21 2/28) who we might address reports to at a station in the hope of getting a better response. Over the past years on my many visits (somewhere around 250-300 stations), I've seen its best to start with the engineer, as very close to all know about the hobby. Many of the smaller ones only have a contract engineer. Your letter may end up going "where no letter has ever gone before", in the doghouse probably. Upon a visit, if I'm not asking to meet a particular person, whoever I meet, I'll have to go into my "song & dance" routine about the club & hobby at which time, a pleasant visit occurs. So, a rule of thumb, if you don't have a name to address your letter, whether from VERIE SIGNERS or the DJ's name you've heard on the air, send it to the PD or GM (those not in larger cities) and explain your reasons for writing, while, only more in brief, to engineers in larger markets remembering to try to enclose our "Guide to DX". Whomever you send a letter to, ask the person to forward your letter to someone if they do not have the time to persoanily answer. There are all kinds of angles, a sales pitch commenting on their ads, or their thorough coverage of local news, ball games, music programs (satellite or local), etc. Many times on a visit, it's easy when someone understands DX, very trying or exciting when trying to explain it, very rewarding when the personel receive me well, a small letdown when they don't (though rare when that happens!). When it happens, my meeting with the station president at smaller stations is received very highly, so there's a possibility of addressing a letter, also. At any visit, I always leave some DX NEWS copies, a Guide to DX, play a tape of my reception of them (that usually gets them going) & generally offer a postcard of Pittsburgh for their effots & interest. CHRIS CUOMO knows my routine well, but sometimes wishes he didn't! Of course, chances are if a station is on past their sign-off or on day pattern while at night (never happens!-DWS), you can guess your request will be dismissed. Again, good luck & keep trying. A kind letter & return postage is just about a must. Finally, at a local 5K race back on 5/8, while chatting with good friend & NRCer DAN EMERICK on the greatness of DX & the NRC, to our surprise another runner passed by, heard us & replied, "CQ, CQ?". A native tongue to our foreign language! 73s!

WILLIAM LOYD VAN HORN - P O BOX 176 - BRASSTOWN, NC 28902
----- Well, I'm back for another adventure of DX from the busiest town of them all, Brasstown! Haven't had a lot of time lately to do much DX. However, getting out of school for 3 months is helping. A couple of nights ago brought my 1st Columbian, HJCY-810, not reported but did tape it. Have finally heard all the of new Cincinnati stations, and some other new call changes. Felt kind of funny to have a new Cincinnati station of 1530! Sending some reports out to those stations, and a few others. A call to WYXI has produced that my report was not bad, just lost in a pile of mail. Should be getting some responses in the next week or so. Lately, WSB-750-GA has been virtually non-exsistent, instead 3 or 4 other stations (all UNID of course) have been knocking them out. I'm beginning that LONG process of saving for a radio, the new Drake SW8, then a KIWA loop to go with it. I can hardly wait. More next time in my 'Brasstown DX Adventure',

73's Still no NJ!!!!!

G. HARLEY DELEURERE - P O BOX 10 - HENDRICKS, WV 26271-0010
---- In yesterdays mail I received the 6/23 DX NEWS and it reminded me that I've not sent a MUSING in a long time! Of course, I want to thank you for the veries from WMIZ, WCEI & WNRK, they're unique! And now for some help, please: Is the 1520 station in Toledo, OH considered to be WJCM even though there is a WJCM in Sebring, FL? Yes, I have read in a past DX NEWS of the mixup. In other words, is the Toledo 'WJCM' still WVOI? Also, does anyone have any info on obtaining veries from WBBR-1130 or WQEW-1560? Both are needed here. Thank you & do have a good summer!

KERMIT GEARY - 1266 RIVERVIEW DRIVE - WALNUTPORT, PA 18088
---- 16 new veries have been received since my last MUSING, coming from KBMR-1130-DX TEST, WDAB-1580, WGMP-1210, WJOX-690, KRZN-760-DX TEST, WHTK-1280, WMXH-750, WIOV-1240, WTCY-1400, WTLY-850, WIXN-1460-DX TEST, WPHY-560, WRVH-910, WTEM-570, WIWC-1580-DX TEST, & last but not least, WGW873, the 10 watt TIS from George Mason Univ., Fairfax, VA on 1610, heard 12/3/93 6:42AM, for a total of 6250. WYLT's CE says I shouldn't have heard them, but the operator was confused by DST and switched to day power 1 hour early. Also received was a verie from

WNZE748, Roosevelt Island, NY on 1620 as well as dupes for reports on the DX TESTS from WNNZ-640, WCEI-1460, WSER-1550 & WNRK-1260, the latter confirming my reception of their 42 watt signal! WCEI & WNRK were courtesy of our esteemed editor, thanks a lot, Dave! What a novel idea to print WNRK's verie on clear plastic! One can have any color verie he wants by backing it with an appropriate color paper or he can add spice with a picture of his favorite dancing girl. The only recent catches to report are WYLT-850 on 4/5 & 4/6 5:57-6:45AM, WTCY-1400 on 4/28 6:47-7:35AM, & WTEM-570 on 5/9 12:56-1:24AM, all now verified. After many fruitless searches for WTEM-570, they were found blasting in on 5/9 when they were nondirectional for antenna work. I'm still looking for a verie from the WRCA-1330-DX TEST of 10/25/93 along with about 17 others. I was all primed to do some eclipse DXing on 5/10 when I received an emergency phone all at 7AM from the local judgeof-elections to help out at the polls, so that shot that idea. I must take exception to the item in the DX TIME MACHINE of 25 years ago in the 6/20/94 DX NEWS, regarding J. Warren Routzahn, York, PA being the last remaining chatter member of the NRC. My 1st membership card, signed by Robert H. Weaver, is dated 11/17/33 (see the NRC 50th Anniversary Book, page 10) and my joining was noted in the 11/22 1933 issue of DX NEWS. The 1/10/34 issue carried this item: "We want to welcome into our club Warren Routzahn, York, PA as a new member" (just to keep the record straight). With a lifetime of DX behind me, one must marvel at the changes that have occured in BCB DX, most of them for the worse. Would that it were possible to go back to 1926, when I started to DX, with the equipment we have today! It would be fun to be able to cut through the sea of heterodynes that existed between 1100 & 1500 kilocycles before the advent of crystal controlled transmitters. Speaking of interference, I was bothered all of the past season with 'birdies' at the high end of the band, and extending to 1700 khz & beyond. I blamed them on the cable TV that runs past my house, but to which I am not connected. A few weeks ago, I had my son unplug his Zenith color TV set in the adjoining room when not in use and, presto!, the birdies disappeared completely. Now I'm ready for the long awaited expansion of the BCB! Best wishes to all for an enjoyable summer! 73 & Good DX!

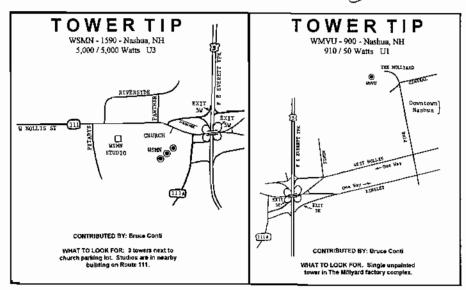
MIKE BROOKER - 99 WYCHCREST AVENUE - TORNTO, ON MGG 3X8 - - - - - Why risk going blind from watching a solar eclipse when you can get some rare mid-day "eclipse skip" DX? The near total eclipse on 5/10 (the last such eclipse here until well into the next century) produced some unusual conditions. Stations in Detroit & Sarnia (in the direct path of the eclipse) were booming in, but none of the NYC 50000 watters were heard. Not even WQEW-1560, which is always the 1st station to come in at sunset. A 2nd harmonic of CFTR-680 was noted on 1360 (680 x 2) during the eclipse, but its not likely related. Still no word on a flagship for Toronto's new NBA expansion team, the Raptors. Could be CFRB, which carried the Knicks-Rockets NBA finals, of Fan-1430 (CJCL). By the time the Raptors tip off in the fall of 95, Fan-1430 could be Fan-590, if Telemedia's bid to buy CKYC-590 and move from 1430 to 590 is approved by the CRTC. Veries received from WCCW-1130, WDAS-1480, WJIB-740, WHND-560, KBMR-1130 & WESC-660. Still no verie received from WCGC-1270 for their test. I also got a "verie" nice letter from Nila Nannu in Bangladesh, she wrote before her penpal request showed up in the 2/14 DX NEWS. Maybe she can get me a verie from Radio Bangladesh? It was one of my better SW catches that never verified a report I sent in 1989. 73's (& 88's to Nila!)

ERNEST COOPER - 5 ANTHONY STREET - PROVINCETOWN, MA 02657 - - - - - The verie total has inched up to 4461 with these in since I last checked in here in the MUSINGS CENTER: WMVP-1000-IL, WPHY-560-PA, WKDV-1460-VA, WKDE-1570-MD, WAAV-980-NC, CCR-1020 Turks & Caicos, & WIWO-1580-IN. The WKDV & WKDB veries are on one letter sent from WKDV. The WAAV verie is typed on a file card: Caribbean Christian Radio was mailed in Turks & Caicos, although I sent the report to their FL address. Some have sent their reports to the Islands and received veries from FL, it works both ways! DX of most recent date: 3/30 WKDV-1460 breaking through again at 1:51AM and their verie answers my question as to why they put on childrens programs during the wee hours of the morning. The signer told me that it is for kids who can't get to sleep or who may be sick and up taking medication! That should give them an audience of about 3! 4/17 at 12:57AM on 1530, these words: "Now this was WCKY, now WSAI, 1530", then into NBC news. On 4/18, the new WSAI heard with gospel at 12:57AM. Then, to 980 & WAAV was doing fairly well, for a 2nd report, which brought forth that immortal file card mentioned above. 4/24 12:56AM, Phillies baseball noted on 1580 and it turned out to e WONZ-NJ, logged and reported but no verie yet, 1:13AM. Tough verifier WASB-1590-NY was noted on the same morning at 1:30AM. 5/1 on 1620 a very weak signal with these words noted: "Hold the money outside the window", "Welcome to --- ", "Motorist delays", "open to any vehicle carrying fuel", "Department of Transportation", "\$2000 a year, up to \$3000 a year", "Taking a bus" & "you also save money". (Sounds like Radio Monopoly to me or a spur from WRJM-1450-DWS). 1460 has been my best frequency for newies this past season and on 5/7 I added WCRY-NC 12:58-1:46AM. I'd had probably had one more had I not forgot the NFMR-PA test! Then, Bob & I enjoyed an 18 day vacation in Frederiksted/St. Croix, US

virgin Islands. Some interesting doings on the daytime dial there: Antigua & Barbuda-620 often IDs as 'Radio ABS'. On 690, an unsolved mystery. The Caribbean Reacon was there, but with a 2nd station on the same frequency, but not causing any of the fast fade with the Beacon! One of them kept running hour tapes of pr. Jean Scott (male). I did hear an ID for a SW station in Memphis, WW--, but only once, other times there was only dead air between tapes. On 880, there was 'VOI', using 2 different slogans, "Voice of Inspiration" & "Voice of the Islands", They are Roman Catholic & are in Dominica. WSTA-1340 is on the LA Dodgers network! Forward - March!

MIKE HARDESTER - 3118 GAITWAY COURT - JACKSONVILLE, NC 28546-6973 - - - - - Greetings! Unfortunately, I missed the HCJB Special Test but maybe next time....PLEASE let there be a next time! On the subject of DX TESTS, I've yet to receive a reply for reports on tests from KSD-550, WFRB-560, WYNI-930 & KDLA-1010. For WYNI & KDLA, I included a tape since reception was not that great. On the flip side, I sent a thank you card to a station, mentionign a couple of code ID's being heard and received a card in reply! Unfortunately, no can count as I'm not even sure I heard the station! The updating of the TIS/HAR list for the IRCA AM-FM ALMANAC is progressing, and all input is velcome. An interesting addition may be added if I can get enough information, Carrier Current Stations. Normally, these stations have a range covering the campus, but in one report received, the range was reported at almost 40 miles! If you have any information on any carrier current stations, please drop me a note. Even if you only know that a school has such a station, let me know and I'll follow up. Also, I'm trying to obtain a mailing address for the Raleigh-Durham Int'l Airport. Thanks, 73's a best of DX!

DAVE SCHMIDT - P O BOX 11502 - WILMINGTON, DE 19850 --- - We're staying busy through these summer months this year and we're glad of it. After a few pushed up start dates, WXML-89.1 should be on the air by the time this hits print. We've also started doing some work with WPEB-86.1 in Philadelphia. One of the announcers whom I worked with at WAMS got into a neat way to find out if running a station is really for him or not, he has teased WECY-1280 and is featuring a 70's format, nothing but music from the 70's. Initial response is good. We also had a visit with WBUX-1570, featuring the same type of format. If your a NEW MEMBER this year, why not introduce yourself with a MUSING! And keep in mind, the start of the new publishing season is the usual time to start off with a reintro MUSING, keep that in mind! Have a safe summer!



GOT A TOWER TIP? SEND DETAILS TO JOHN BOWKER; 1811 FORT DUQUESNA DRIVE; SUN CITY CENTER, FL 33573, YOUR MAP WILL BE RE-DRAWN.

DID YOU KNOW that a 10-Watt station in Vermont used to provide good coverage in a car for up to an hour as one passed through the town. This was largely due to a lack of electrial interference from power lines along the highway and the 35 mph speed limits!

## Target DX

### Bruce Conti bc@lexicon.com 46 Ridgefield Drive Nashua, NH 03062-1174

DX'ing 'smart', with shared tips and requests by NRC members

### **Ground Conductivity**

Eric Bueneman makes some observations...

"Your ability to null locals is dependent on where you're located in relation to the center of a large city, the ground conductivity value, and position on the dial. If you live in an area with low ground conductivity, such as Atlanta, your daytime regulars may become nighttime DX targets. If you live in an area with high ground conductivity, such as St. Louis, Kansas City, Topeka, or Milwaukee, a low frequency local may also be of local quality in the next market (such as WTMJ-620 being a local in Chicago or Madison, WIBW-580 being a local in Kansas City, likewise for WDAF-610 in Topeka or WDAF and KSD-550 in Columbia/Jefferson City). That's something to take into consideration next time you're on the road with your portable DX machine."

Perhaps the best way to explain the relationship between ground conductivity and mediumwave radio is by the example of the half-wave antenna, which depends upon ground to make it an electrically equivalent full-wave antenna. The half-wave antenna has a physical length that is one-half of the wavelength of the desired frequency. The ground becomes the other half of the wave, as shown in Figure 1. From this, it's easy to conclude that if the ground conductivity is poor, then the ground half of the wave will encounter resistance, resulting in reduced signal level.

ANTENNA
HALF-WAVE

REFLECTION

Poor ground converts this into noise.

Fig. 1 - Half-wave antenna and ground reflection.

Ground conductivity is usually measured in units called *mhos*. Who is simply ohm spelled backwards, with the ohm being the more familiar unit of resistance. Think of conductivity as being the opposite of resistivity... you got it!

The best ground conductivity is found in fertile soil (15-30 mhos), swamps, and salt marsh areas. The conductivity of sea water is 5000 mhos. The worst is in rocky areas and city downtown sections (0.5-8 mhos). Typically, the central plains of the US and Canada have the highest conductivity, while the Rocky mountains and New England Appalachians are among the lowest.

No matter what size your antenna is, a good ground is important to get the most out of your setup. There are some ways to improve your ground, even if the region is characterisically poor. Try running a ground radial parallel to the receiving antenna wire. The ground radial does not have to be buried, but can just rest on the ground. Running several other radials from your receiver ground rod can also help. Chicken-wire also makes a good ground-plane.

The following bandscan indicates what salt water conductivity can do for your DX...

### Bandscan

Contributed by Mark Connelly, WA1ION, Billerica, MA: Daytime Groundwave Bandscan, Granite Pier

DXpedition Site, Rockport, MA

"Most receptions were made on a Realistic DX-440 with RTL-2 loop phased against a remotely tuned whip through the DCP-1 Dual Controller/Phaser."

"Signal strengths are rated on a relative 0 - 5 scale: 0 = carrier in noise, 1 = weak with bits of audio, 2 = poor, 3 = fair, 4 = good, 5 = excellent, \*= with dominant nulled."

<u>FREO</u>	SIG	CALL	LOCATION
530	1	WNUE384	MA - Tyngsboro
540	2	WLIX	NY - Islip
	1 *	CJSB	ON - Ottawa
	1 *	WDMV	MD - Pocomoke City
	1 *	CBT	NF - Grand Falls
550	4	WICE	RI - Pawtucket
	2 *	WDEV	VT - Waterbury
	2 *	CFNB	NB - St. John
560	5	WGAN	ME - Portland
	2 *	WHYN	MA - Springfield
570	3	WMCA	NY - New York
	1 *	CJEM	NB - Edinundston
580	3	WTAG	MA - Worcester
	1 *	CJFX	NS - Antigonish

							41
590	5	WEEI	MA - Boston	1090	5	WILD	MA - Boston
600	2	WICC	CT - Bridgeport	1100	1	WHLI	NY - Hempstead
	1 *	CIQC	PQ - Montreal	1110	3	WHIM	Rl - Providence
	1 *	CKCL	NS - Truro		3	WNNW	NH - Salem
610	3	WGIR	NH - Manchester	1120	3	WADN	MA - Concord
620	4	WZON	ME - Bangor	1130	2	WBBR	NY - New York
	1 *	WVMT	VT - Burlington	1140	2	C]TR	PQ - Trois-Rivieres
	1 *	W5KQ	NJ - Newark		1 *	CBI	NS - Sydney
630	4	WPRO	RI - Providence	1150	4	WMEX	MA - Boston
	3 *	CFCY	PI - Charlottetown	1160	2	WSKW	ME - Skowhegan
640	2	WNNZ	MA - Westfield	1170	4	WKPE	MA - Orleans
660	4	WFAN	NY - New York		2 *	WDIS	MA - Norfolk
680	5	WRKO	MA - Boston	1180	1	WJJF	RI - Hope Valley
690	3	CBF	PQ - Montreal	1190	2	MTIB	NY - New York
700	4	CHSJ	NB - St. John	1200	4	WKOX	MA - Framingham
710	3	WOR	NY - New York		1 *	unID	?? - prob. Brewer, MŁ
720	3	CHTN	PI - Charlottetown	1210	1	WOGL	PA - Philadelphia
730	4	WJTO	ME - Bath	1220	3	WSME	ME - Sanford
	1 *	WACE	MA - Chicopee		2 *	WRIB	RI - Providence
740	4	WJIB	MA - Cambridge	****	1 *	CKCW	NB - Moncton
750	1 *	WGSM	NY - Huntington	1230	5	WESX	MA - Salem
750	1	CBGY	NF - Bonavista Bay	1240	4	WUOK	MA - West Yarmouth
760	4 3	WVNE	MA - Leicester		1 *	WOON	RI - Woonsocket
770 780	2	WABC CFDR	NY - New York NS - Dartmouth	1250	1	WARE	MA - Ware
790	4	WLKW	RI - Providence	1260	5	WEZE	MA - Boston
790	1*	WRUM	ME - Rumford	1270	4	WTSN	NH - Dover
800	4	WCCM	MA - Lawrence	1280	3	WABK	ME - Gardiner
000	2 *	CIAD	PO - Montreal	1290	2 * 2	WEIM	MA - Fitchburg
	1*	CHRC	PQ - Quebec City	1290	1 *	WRCP WKNE	RI - Providence NH - Keene
810	2	WGY	NY - Schenectady	1300	5	WIDA	
0.0	1 *	CJVA	NB - Caraquet	1310	4	WLOB	MA - Quincy ME - Portland
820	î	WNYC	NY - New York	1510	2*	WORC	MA - Worcester
830	ō	CFJR	ON - Brockville	1320	2	WDER	NH - Derry
840	i	WRYM	CT - New Britain	1020	2 *	WARA	MA - Attleboro
850	5	WHDH	MA - Boston		ī *	CKEC	NS - New Glasgow
870	3	WLAM	ME - Gorham	1330	3	WRCA	MA - Waltham
880	3	WCBS	NY - New York	1340	3	WWNH	NH - Madbury
900	4	WCLZ	ME - Brunswick		3	WNBH	MA - New Bedford
	3*	WMVU	NH - Nashua		2 *	CJLS	NS - Yarmouth
	2*	CKDH	NS - Amherst	1350	2	WLNH	NH - Laconia
	1 *	CKTS	PQ - Sherbrooke		1	WINY	CT - Putnam
910	3	WABI	ME - Bangor	1360	4	WLYN	MA - Lynn
	1 *	WNEZ	CT - New Britian	1370	2	WFEA	NH - Manchester
920	4	WHJJ	RI - Providence		1 *	WDEA	ME - Ellsworth
	2 *	CJCH	NS - Halifax	1380	4	WCQL	NH - Portsmouth
930	5	WZNN	NH - Rochester		1 *	WNRI	RI - Woonsocket
	2 *	CFBC	NB - St. John	1390	4	WPLM	MA - Plymouth
940	2	CBM	PQ - Montreal		1 *	WRIV	NY - Riverhead
950	5	WROL	MA - Boston	1400	4	WIDE	ME - Biddeford
960	1	CHNS	NS - Halifax		3 *	WLLH	MA - Lowell-
970	5	WZAN	ME - Portland				Lawrence
980	4	WCAP	MA - Lowell	1410	3	WM5X	MA - Brockton
990	2	WALE	RI - Providence		1 *	WPOP	CT - Hartford
1000	1 * 2	CKIS	PQ - Montreal	1420	1 *	CIGO	NS -PortHawkesbury
		CKBW	NS - Bridgewater	1420	3	WBSM	MA - New Bedford
1010 1020	2 2	WINS WNTK	NY - New York	1400	2*	WASR	NH - Wolfeboro
1030	5	WNIK WB2	NH - Newport MA - Boston	1430	5	WXKS	MA - Everett
1050	2	WEVD	NY - New York	1440	4 2 *	WLPZ WVEI	ME - Westbrook
1000	î*	WBNC	NH - North Conway	1450	5	WNBP	MA - Worcester MA - Newburyport
1060	4	WBIV	MA - Natick	1450	2*	WRKD	ME - Rockland
	2 *	CJRP	PQ - Quebec City		1 *	WKXL	NH - Concord
1070	2	CBA	NB - Moncton	1460	4	WBET	MA - Brockton
1080	3	WTIC	CT - Hartford		-	- /	Diventon

1470	3	WSRO	MA - Marlborough
	2*	WKZU	ME - Lewiston
1480	3	WSAR	MA - Fall River
1490	4	WPOR	ME - Portland
	3 *	WHAV	MA - Haverhill
	2 *	WMRC	MA - Milford
1500	1	WFIF	CT - Milford
1510	5	WSSH	MA - Boston
1520	1	WGAM	MA - Greenfield
1530	2	WCEG	MA - Middleboro
	1	WDJZ	CT - Bridgeport
1540	4	WMYF	NH - Exeter
	2 *	WADK	RI - Newport
1550	4	WNTN	MA - Newton
1560	1	WQEW	NY - New York
1570	4	WNSH	MA - Beverly
	3 *	WPEP	MA - Taunton
1580	1	WLIM	NY - Patchogue

Mark mentions that WBZ-1030 was nulled to receive WNTK-1020, WLNH-1350 has sometimes been inactive, and WCFG-1530 has been inactive in 1994. It's interesting to note some of the differences when compared to my inland Nashua location. For example, WWRL is heard in the null of WUNR-1600, many stations from the Canadian maritimes are difficult if not impossible to hear day or night (like CBT-540, CKDH-900, CBI-1140, or CTLS-1340), and WCGI-1210 is a no-show during daylight hours here in Nashua.

WARV

WSMN

WUNR

1 \* WLNG

RI - Warwick

NH - Nashua

MA - Brookline

NY - Sag Harbor

### 

1590

1600 4

### Bandscan Special Edition

CBI

Contributed by Jean Burnell, St. John's, Newfoundland.

PQ - Chicoutimi

"The week the family spent in the sun at Jaco on the Pacific coast of Costa Rica last year was such a welcome break from our seemingly interminable St. John's winter, we decided to do it again. Last year I managed to DX/bandscan in the evenings, and the results appeared in the May 3, 1993 DX News (Vol 60, No 25). This time I brought along the DX-440 again, and the antenna was the same piece of wire (about 30 meters) that I ran along the hotel balcony at night. Again, I DXed mainly at night, but this time I also put in two daytime sessions (with just the built-in antenna) between dips in the surf and the pool."

"During daylight quite a few Costa Rican stations were audible that were overwhelmed at night by stations in Honduras and neighboring Nicaragua. The logs include all of the stations that had more than marginal audio during the daytime and most of the heavy-hitters at night. This list is more comprehensive than the 1993 version, but there were dozens of stations logged in 1993 that I did not hear in 1994. Thus, the two reports are complementary, and I hope the information is useful for DXers interested in the area."

"I have noted some changes since 1993 and some omissions from WRTH '94. The accuracy of the frequencies of most stations was not checked. The DX-440 displays frequency to the nearest 1 kHz, but in some instances 1 have reported frequencies to the nearest 0.1 kHz. This was done by using the BFO. I do not need to use this technique often these days, so readers should be warned that my estimates may not be without error. (Dates and times in these logs are UTC)"

- 530 COSTA RICA R.Rumbo, TICAL, Cartago, MAR 18 2048 LA mx, «en Rumbo es 2 horas 48 minutos 15 segundos» which was indeed accurate. SIO 354.
- 540 NICARAGUA R.Corporación, TNOW, Managua, MAR 18 0511 News read by 2 men, ID. SIO 544.
- 570 COSTA RICA R.Fundación, TICDL, Desamparados, MAR 18 2051 Música romantica, «Música Fundación» fingle and more ballads. SIO 555.
- 580 HONDURAS Cadena Corporación de Radiodifusion (HRZQ?), Tegucigalpa, MAR 17 0330 Unequivocal ID «Esta es la Cadena Corporación de Radiodifusion», TC as «9 con 30» then «noticlas nacionales». Weak and fadey, SIO 242. Note that WRTH '94 says this is HRZQ «La Súper T», which in the '93 WRTH was R. Tegucigalpa, the IDs that I did indeed note here in 1993. However, now R. Tegucigalpa, which sounds like it did on 580 in 1993, is on 1190.
- 590 COSTA RICA R.Nacional, TIRN, San José, MAR 18 2055 «Radio Nacional de Costa Rica presenta las noticias de ultima hora.» SIO 455.
- 600 HONDURAS La Voz del Centroamérica, HRVW, La Ceiba, MAR 17 0401 News of police checking \*sedulas» in Puerto Lempira, later about the Universidad de Honduras, TC 4 minutes fast, //650, 443.
- 610 HONDURAS R.América, HRLP, Tegucigalpa, MAR 16 0332 Announcement included «aquí en Tegucigalpa», then sports program. S10 343.
  - COSTA RICA R.Sistema Universal, TIRSU, Guadalupe, MAR 18 2057 US Top-40 music, PSAs and ads, een Universal» and e90.7 FM» mentioned frequently. SIO 354

- 620 NICARAGUA R.Nicaragua, YNMN, Managua, MAR 16 0324 ID include phrase «la nueva Nicaragua», ID, commentary on the Int'l Monetary Fund. SIO 444. MAR 18 0510 Talk about swimming, TC, song called *Que Triste* and public notice about water interruptions in Managua. Fluttery, SIO 443. MAR 19 2200 fútbol commentary, mentioned R.Nicaragua. SIO 353.
- 630 HONDURAS R.América, 3 locations, MAR 20 0352 Ads mentioning Tegucigalpa, talk about water,
   '70s disco song, // 610. SIO 332.
   640t ECUADOR R.Nacional, HCXYI, Quito, MAR 16 0328 Frequency was a mess, one «Radio
- Nacional» mention came through. SIO 222.

  CUBA R.Progreso (CMBC/CMDQ), Guanabacoa and/or Las Tunas, MAR 16 0357 News (unmistakeably Cuban), two IDs, QRMed by 2 stations including tentative Ecuador. SIO 232.

  COSTA RICA R.Musical, TIJJ, Moravia, MAR 18 2103 Mellow tunes with few announcements, but
- COSTA RICA R.Musical, TIJJ, Moravia, MAR 18 2) 03 Mellow tunes with few announcements, but caught «programa de Musical» between tunes at 2118. SIO 252.

  650 HONDURAS La Voz de Centroamérica, HRVW, presume San Pedro Sula and others, MAR 17 0412 News, // 600, audible weakly, SIO 222, under a strong station (SIO 444) relaying VOA in SS with
- News, # 600, audible weakly, SIO 222, under a strong station (SIO 444) relaying VOA in SS with 
  Panorama Deportivo (not # 1580). MAR 18 0336 At least 3 stations, one with news IDed as «La 
  Voz de Centroamérica». SIO 322. MAR 18 0453 Dominant was a Hollywood news feature in SS 
  from VOA, while the station underneath seemed to s/off at 0456 with «La Voz de Centroamérica» ID, 
  no anthem. However, at 0459 the dominant station had news from San Pedro Sula # 600, which I 
  thought was LV de Centroamérica too! Dominant SIO 433. Activity on this frequency is confusing! 
  NICARAGUA R.Nicaragua, Bluefields (?), MAR 19 2201 YNMN relay, fútbol play-by-play, 
  definitely parallel 620. SIO 252. This one listed in the '93 WRTH, but not in '94.
- 650t PANAMA R. Mía, HOS22, Panamá, MAR 18 0358 Faded up in a mess with what sounded like an ID (echoed), «sintonise Mía», but was pretty garbled. Very tentative. SIO 222/1
- 655 EL SALVADOR R.El Salvador, YSS, San Salvador, MAR 19 0311 Presumed to be El Salvador, weak with muffled audio, woman talking over music. SIO 252.
- 660 HONDURAS La Voz de Honduras, HRNN18, La Ceiba, MAR 16 0403 Faded above a morass of weak signals with «H-R-N, La Voz de Honduras presento Tegucigalpa de Noche» news program. 232.
- 670 COSTA RICA R.Monumental, TITNT, San José, MAR 18 2111 Talk of 25th anniversary of the Costa Rican Teachers Union. SIO 555.
- 680 NICARAGUA R.La Primerísima, YNAM, Managua, MAR 19 0314 Song interrupted by woman with «La Primerísima» ID, then at 0315 interrupted again by inaccurate TC «precisamente 9:20». SIO 433.
- 690 ECUADOR R.Sucre, HCFA4, Portoviejo, MAR 18 0517 3 or 4 IDs every minute, TCs, dedications, and dance music. Local noise QRM, SIO 333 HONDURAS La Voz de Honduras, 3 sites, MAR 19 0331 Ads mentioning Honduras, muffled ID.
  - HONDURAS La Voz de Honduras, 3 sites, MAR 19 0331 Ads mentioning Honduras, muffled ID, more ads, 0335 TC as 9:35, talk from «stadio nacional» and then faded out. SIO 333.
- 700 ECUADOR R.Sucre, HCRS2, Guayaquil, MAR 18 0520 Phone calls, R.Sucre IDs, not //690. 444. COSTA RICA R.Sonora, TIJC, Guadaiupe, MAR 18 2114 A man and a woman talking earnestly, sometimes over music. «Bienvenidos a vidas nuevas...». Low het, SIO 243.
- 720 NICARAGUA R.Católica, YNRC, Managua, MAR 15 0447 ID and s/off with Beethoven's Ode to Joy theme to 0449, no anthem. SIO 344. MAR 16 0405 - «Radio Católica de Nicaragua» ID, news item about US blaming bombs in Managua on Sandanistas. SIO 343.
- 730 MEXICO XEX, México, MAR 16 0407 «Recuerdos» and TCs with male DJ and music. SIO 343. COSTA RICA R.Reloj, TIHB, San José, MAR 18 2121 Airline arrival/departure info from «aeropuerto internacional Juan Santamaria», then ID «esta es Reloj, 3:23 minutos», ticking, música romantica. SIO 354.
- 730t BELIZE R.Belize, Ladyville, MAR 19 0358 Likely Belize, but fragmentary due to QRM and QSB, with religious preaching in EE. Three stations fighting it out here, SIO 322/1.
- 740 HONDURAS R.Eco, HRNN23, San Pedro Sula, MAR 16 0408 «Eco-Eco-Eco» ID, ads, cuckoo clock noises, and talk regarding a bomb in Managua. SIO 333.
   NICARAGUA R.Sandino, YNRS, Managua, MAR 19 2205 Fútbol not //620, «Hora del Sandino»TCs. SIO 344.
   760 EL SALVADOR R.Cadena, YSKL, unknown location, MAR 18 0527 News ended, announcer
- thanked listeners, s/off routine with unequivocal IDs mentioning 770 and 780, anthem to 0538. No sign of R.Columbia at this time, SIO 332.

  COSTA RICA R.Columbia, TTW, San José, MAR 18 2124 Man invited «Ticos» to phone immediately to start paying for an unclear offer... one wonders how many fail intelligence tests like this one! SIO 555.
- 770 COLOMBIA RCN, HJJX, Bogotá, MAR 19 0211 Fútbol on «Radio Cadena», heard «¡A goooooal!».
- 780 EL SALVADOR R.Cadena, YSKL, 4 relays listed, MAR 16 0411 Garbled audio, possibly because more than one outlet was being received, but definite 1D twice, then talk about politics. SIO 332.
- 790 HONDURAS R.Satelite, HRTG2, Tegucigalpa, MAR 15 0453 ID, fanfare (like at racetrack), then "Atención..." and many names were called. SIO 333.

- 800 NETHERLANDS ANTILLES TransWorld Radio, PJB, Bonaire, MAR 20 0506 Religion in Spanish, Caracas telephone number. SIO 344.
- 810 COLOMBIA CARACOL Colombia, HJCY, Bogotá, MAR 20 0510 Fútbol results (German league), ID with hype, fútbol results from Argentina, then tennis. SIO 343.
- 820 HONDURAS R.Moderna, HRLP16, Tegucigalpa, MAR 19 0455 ID folo by ann. of job opening. COSTA RICA R.Centro, TIGC, Tibás, MAR 18 2127 - Up-tempo music, jingle, TC and lottery ad, DJ said «La nueva música Centro». SIO 243.
- 831t NICARAGUA R.Zinica, YNRZ, Bluefields, MAR 19 0455 Muffled audio with talk about El Salvadoran politics, then something about Nicaragua. Het, SIO 232.
- 840 CUBA Doblevé, CMHW, Santa Clara, MAR 18 0550 Cuban music, s/off with nice ID at 0559, slogans (¡Patria o muerte, venceremos!) and anthem to 0600. Local electrical ORM, SIO 333.
- 860 HONDURAS R.San Pedro, HRBS, San Pedro Sula, MAR 16 0431 Ads, US pop song, clear «Radio San Pedro» ID in the middle of the song. SIO 343. ('94 WRTH also lists this on 850, with notation of nominal frequency of 860. Jean mentions that 860 is now definitely the nominal frequency. ed)
- 869.8COSTA RICA R.Universidad de Costa Rica, TIUCR, San José, MAR 18 2133 Certainly this one with orchestral music by Tchaikovsky. SIO 454.
- 870 EL SALVADOR R.Cadena de Oro, YSAR, San Salvador, MAR 18 0557 Just in time for s/off ann.
- 880 EL SALVADOR R.Cadena de Oro, unknown location, MAR 19 0342 Numerous «Cadena de Oro» IDs, interviews about water shut-offs, news report about Nicaragua, UTC -6 TC. SIO 443. Does R.Ritmo relay YSAR? I should have checked 870 parallel, but didn't!
- 890 CUBA R.Reloj, unknown location, MAR 18 0601 News by two males, ID and time pip. SIO 344.
- 900 NICARAGUA R.Tiempo, YNRT, Managua, MAR 16 0438 IDs and slogan «Entre til y yo, solo Radio Tiempo» and accurate time every minute over music, which included rap and musica romantica. MEXICO La Voz de la América Latina, XEW, México, MAR 18 0555 Two IDs before soft folk-sounding music. Strong hets, SIO 422.
- 930 COSTA RICA R.Saprissa, TIRCR, Zapote, MAR 18 2141 Ballads and some livelier music. No real ID heard, noted ads for stores in San Pedro and Zapote. SIO 253. MAR 19 2150 - PSA for Costa Rican agency, LA mx.
- 960 COLOMBIA CARACOL Caribe, HIOP, Magangué, MAR 15 0501 Frequency was a mess with 2 stations battling, IDs and talk about futbol game. QRM from R.Exitos, SIO 322. HONDURAS R.Exitos, HRNN22, San Pedro Sula, MAR 15 0502 «Radio Exitos, la romantica» and ballads. SIO 322 with CARACOL QRM.
- 980 COSTA RICA R.Cordillera, TIRI, Esparza, MAR 16 0256 ID and welcome to visitors in SS and EE, also info on tides in SS and EE. SIO 444. MAR 18 2150 «La hora en Cordillera». Freq slightly low.
- 990t MEXICO, XET, Monterrey, MAR 16 0446 Hyper promo for their «Discoteca», mentioned México.
- 1020t TURKS & CAICOS Caribbean Christian R., Grand Turk, MAR 15 0510 No ID but very likely this with energetic preaching in Spanish. SIO 333.
- COLOMBIA RCN, HJFQ, Pereira, MAR 15 0515 fade down by Turks left this with «RCN» ID. 222. 1024.5 COSTA RICA R.Mil-veinte, TTTIC, San José, MAR 18 2153 Certainly this with SS cover version
- of the Guess Who's *Those Eyes* and early '60s tunes. Few announcements between songs. SIO 354.

  1040 COSTA RICA R.Fides, TIAC, San José, MAR 18 2156 Announcement started with «Amigos de Radio Fides...» over flute music, then Gregorian chant. Local electrical noise QRM, SIO 332.

  COLOMBIA R.Tropical (HJ??), Barranquilla, MAR 20 0531 On long after listed 0200 s/off, Excited, from-the-street intro of dance music, two «Tropical» IDs, but sounded like festivities were from Cartagena. SIO 344.
- 1060 COSTA RICA R.Columbia, TILX San Isidro and/or TIMS Liberia, MAR 18 2158 «Noticias de Radio Columbia», jingle at 2159 and more news parallel 760. SIO 253.
- 1080 GUATEMALA R.Novedad, TGLU, Zacapa, MAR 15 0341 «Radio Novedad, 10-80, la nueva estéreo de Zacapa», música romantica, ads with lots of sound effects at 0357, more IDs and TC for «22 boras». SIO 443.
  COSTA RICA Faro del Caribe, TIEC, San José, MAR 18 2200 Programad this mith tally recording.
  - COSTA RICA Faro del Caribe, TIFC, San José. MAR 18 2200 Presumed this with talk regarding human rights in Cuba. SIO 344.
- 1100 COSTA RICA R.Chorotega, TISCR, Santa Cruz, MAR 18 2208 «Atención...» then many messages mentioning Santa Cruz, Puntarenas, and Guanacaste, two IDs as «Radio Chorotega, una emisora diferente», then rustic guitar music. SIO 454.
- 1110 MEXICO R.Red, XERED, México, MAR 20 0600 «Radio Red» IDs, news to 0604, faded out, 332.
- 1120 unID, MAR 16 0449 Ad string started with election ad «Vota seguro, vota Iorge» and an ad/slogan for «Sonido dos mil dos». Definitely not Sonido 11-20 (which was not heard at all on this trip not even a carrier daytime) because Costa Rican elections were a month earlier. Thus, most likely was La Romantica, YSLR, El Salvador, or possibly a long shot Sonido de Mexicali, XEMX? SIO 332. t USA KMOX, StLouis, MO, MAR 20 0557 Almost certainly this with end of EE jazz program, promo for jazz concerts, believed to be in St.Louis, but no ID heard. SIO 332.

- 1130 USA KWKH, Shreveport, LA, MAR 20 0538 C&W music, Shreveport Chevy dealer ad at 0552, IDed as just "WKH", then "Here's Gene Watson for you at the radio ranch..." and more music. 444.
- 1140 USA WQBA, Miami, FL, MAR 16 0550 Woman interviewed in Spanish about Cuba, under a much more interesting unID station playing unusual Middle Eastern-sounding flute and drum music. The dominant unID station had UTC -5 TCs, and signed off at 0556, leaving WQBA marginally clearer with fading. SIO 322.
  - t COSTA RICA R.Monumental, TITNT, San Carlos and /or San Isidro de El General, MAR 15 0437 Very poor with ad with prices in colones. SIO 242.
  - EL SALVADOR R.El Mundo, YSTS, San Salvador, MAR 19 0236 Elevator music, very few announcements until 0259, then ID and incomprehensible slogan. SIO 342.
- 1150 NICARAGUA R.Darío, YNUW, León, MAR 15 0400 Music, short s/off announcement and anthem to 0403. MAR 16 0302 ID «Radio Darío, su nueva radio», TC as «12-3 minutos», then Spanish cover versions of Eagles and Whitney Houston hits. 0355 s/off prayer, ID, anthem to 0357. SIO 333. Note that WRTH incorrectly lists s/off at 0300.
- 1159.5 COSTA RICA R.Columbia, TILXX, Puntarenas, MAR 18 0436 Political commentary, ID, death notices. Frequency seemed unstable, SIO 555. MAR 18 2214 Semireligious talk, not // 760. 555.
- 1170 COLOMBIA CARACOL, HINW, Cartagena, MAR 15 0354 CARACOL ID, talk about health. 343. 1180 USA VOA R.Martí, Marathon, FL, MAR 15 0534 News reports in Spanish, «Radio Martí» ID and
  - LA music. Much less strong than // 9525, SIO 333.
    COSTA RICA R.Victoria, TIPJ, Heredia, MAR 19 2148 ID « ..aquí en Radio Victoria», LA oldies and disco.
- 1190 HONDURAS R.Tegucigalpa (HRZQ?), Tegucigalpa, MAR 15 0410 Unequivocal «Radio Tegucigalpa» IDs, ridiculously bombastic fanfares before «el noticiero de Honduras», ads, and talk program. No parallel signal discerned on 580. SIO 444. See also 580.
- 1200 COSTA RICA R. KW, TITQ, San José, MAR 18 2217 Ads and talk regarding festival of San José (the next day), ID sounded more like «Radio Ka-Ve». Muffled audio made comprehension tricky.
- 1240 COLOMBIA RCN, HJFG, Armenia, MAR 16 0457 «RCN» ID, then «CCN» news (confusing!), «RCN» ID again at 0500. SIO 333.
- 1280 COSTA RICA R.Alajuela, TIHT, Alajuela, MAR 18 2229 End of Enlace Juvenil program «...aquí en Radio Alajuela», then sports program Ovación with fútbol results. SIO 454.
- 1290 PANAMA R.Guadalupe, HOS23, Panamá, MAR 17 0303 Presumed R.Guadalupe, just caught «Voz de Panamá», then Panamanian anthem to 0304. SIO 242.
- 1330 EL SALVADOR R.Progreso, YSHQ, San Salvador, MAR 15 0435 Religious music, ID, then another religious song. SIO 444.
- 1340 COSTA RICA R.Sideral, TIHR, San Ramón, MAR 17 1158 S/on prayer, «Esta es Sideral» at 1203. SIO 443. MAR 18 2234 PSA for milk producers, talk. SIO 454. COLOMBIA R.Uno, HJFB, Bogotá, MAR 18 0619 TC as 1:18, rustic accordian music, IDs at 0628.
- 1360 COSTA RICA (not!) Would have expected to hear the listed R.Monumental relay from Puntarenas if it were on, but nothing here at all during daylight hours on MAR 18 and MAR 19.
- 1370 unID, MAR 18 0502 TC as «23:3 minutos», then election info, jingle (I'm pretty sure said «La Súper Fiera», which I believe is a wild animal), then tune called Da Me. Deep fades, SIO 332.
- 1380 COSTA RICA R.Guanacaste, TIMS, Liberia and or San José, MAR 19 2050 Ad string, LA pops. At 2125, ads for Banco de Costa Rica, then 5 seconds of silence at 2127 and a simple «Guanacaste». ID followed by about 15 seconds of dead air before music. SIO 353.
- 1390 HONDURAS La Voz Evangélica, HRVC, Tegucigalpa, MAR 17 0307 Religious program. SIO 333.
- 1400 GUATEMALA R.Porteña, TGRB, Puerto Barrios, MAR 17 0340 Religious program to 0353, ID thanking listeners, then more preaching with ID again at 0359. Deep fades, SIO 332
- 1420 COSTA RICA R.Fanta (probably TIBAS), Nicoya, MAR 19 2056 LA ballad, ad string, 3 IDs «Radio Fanta, la emisora por todos los nicoyenses», *Impacto* program at TOH with a woman reading lots of names. SIO 454. This is listed in '94 WRTH as a relay of R.Columbia-760, but was not // 760.
- 1430 VENEZUELA R.Bahía, YVTP, Puerto La Cruz, MAR 20 0606 Lively music, TC at 0610 as «a Bahía, 2 y 9 minutos», then «con Bahía» promo. Faded, SIO 342.
- 1480 COSTA RICA R.Puntarenas, TIAW, Puntarenas, MAR 19 2107 Song Nada Más, 3:11 TC at 2108, and ID. SIO 555.
- 1490 unID, MAR 17 0357 Very weak, ID with "La voz de los...", but I could not decipher it (not even from the tape). Can't find anything like this listed in WRTH. SIO 242-1.
- 1500 COLOMBIAR, K., HJZH, Medellin, MAR 18 0420 Two station s fading in/out, only one IDed with LA music and IDs often as «el Súper K» and once as «Radio K». SIO 322.
- 1510.1 PANAMA Hosana R., HOA95, Panamá, MAR 20 0332 Religious music in Spanish, «Hosana Radio» IDs. SIO 444.
- 1530 BELIZE VOA, Punta Gorda, MAR 18 0412 News in English // 1580. Poor with KGBT QRM, 322. USA R.Panamericana, KGBT, Harlingen, TX, MAR 18 0414 VOA faded down to reveal this in Spanish with ads, «Radio Panamericana» and KGBT IDs. SIO 322.

- 1540 BAHAMAS Bahamas R. Network, ZNS1, Nassau, MAR 15 0542 Rel talk program in English. SIO 333. MAR 18 0404 Woman wrapping up "News at 11", weather for Bahamas, and at 0405 "This is the Bahamas Radio Network" followed by "Radio Bahamas" jingle and C&W music. Local electrical QRM, SIO 433.
- 1560 COSTA RICA R.Nicoya, TIJM, Nicoya, MAR 19 2111 Old-style LA music with organ, no 1D but a long ad string included *Plaza Comercio Nicoya*. S1O 353
   MEXICO R.Consentida, XEFAJ, México, MAR 20 0517 PSA from «Secretaria del Salud», promo for *Música de la Sierra* program «en la Consentida», then song with accordian. SIO 343.
- 1579.8 unID, MAR 19 2115 Child sings Comple Años Feliz, then miserable rustic music. Low het, 242. 1580 BELIZE VOA, Punta Gorda, MAR 18 0411 News in English about Bosnia. Best signal in the band at this time, SIO 555. To bad this one is scheduled to go off permanently.

unID, MAR 20 0429 - Faded up with ID that sounded like «Radio Rondaponde» -- I don't know of any station that sounds like that! Perhaps s/off at 0458 as snatches of an anthem came through. 322.

1590 COSTA RICA R.16, TILGJ, Grecia, MAR 19 2136 - Ballad Nada Sin Tr., accurate TCs, «Radio Dieciseis» IDs and mention of Grecia and actual frequency of 1590. Local electrical QRM, SIO 342. This is listed under 1600 in '94 WRTH, but is unequivocally on 1590.

MEXICO Capital R. Voz, XEVOZ, México, MAR 18 0408 - «Capital» ID, ads, then faded away 432 1599.8 COSTA RICA? unID, MAR 19 2132 - Ad, possibly horse racing results, more ads. but could not discern an ID. Very weak and low het, SIO 242.

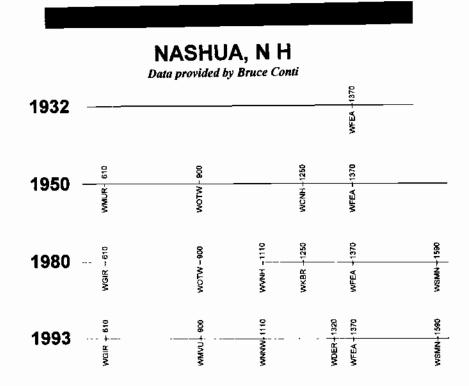
WRDM 1550 AM
COVERING CENTRAL CONN. & WESTERN MA
886 MAPLE AVENUE • HARTFORD, CT 06114

Thanks to Eric, Jean, And Mark for their contributions. See you at the convention! 73s

Bene

## Now and Then John D. Bowker

Dial changes in this listening area since 1932



### 1994 National Radio Club Convention

September 2 - 5, Labor Day Weekend Nashua-Manchester, NH

New Hampshire, *The Grante State*, welcomes the National Radio Club for its annual Labor Day weekend convention. The convention site is central to all that New England has to offer. The mountains, seacoast, and historic Boston are all within an hour's drive **Program of Events** 

The convention program has something for everyone. Upon arrival on Friday night, convention goers will receive a souvenir packet loaded with information on how to get the most out of your stay in New Hampshire, including maps and radio station information. The hotel's Presidential Suite will be open for NRCers to renew old acquaintances and make new ones.

Radio station tours are scheduled for Saturday morning, to include the WKBR-1250 studio and transmitter site, and the "mini-WLW" WFEA-1370 transmitter site

Saturday afternoon, a group will be assembled for a tour of the Anheuser-Busch brewery and Clydesdale hamlet. The entire process is explained on the tour, from grain storage to beechwood aging to bottling. Participants are then invited to a beer-tasting. Following the brewery tour, it's a short walk through beautiful flower gardens to the Clydesdale hamlet, to see the workhorses that have become a Budweiser trademark

Saturday night is reserved for the traditional banquet and auction. Banquet guest of honor Mr. Bob Bittner, WJIB/WKBR/WNEB owner and manager, will speak about his experiences in AM radio. Don't forget to bring your bumperstickers, hit lists, coffee mugs, T-shirts, and other radio related items, along with DX gear, to donate to the auction and support your NRC! If you would like to donate items to the auction, but will be unable to attend, you may send them to the convention host. Door prizes, including a Superadio III, will also be awarded.

John Bowker has arranged for some informative seminars on Sunday with topics of discussion to include reception reporting, phasing techniques, and Beverage construction along with the NRC Quiz. A trip to the seacoast for some TA DXing may also be on tap, as NRCers will be free to step out on their own and discover New England. Shopping in New Hampshire is tax-free; there's no sales tax.

### Convention Hotel/Reservations

The convention will be held at the Ramada Hotel at Merrimack. The hotel is located at Exit 11 of the F.E. Everett Turnpike, just north of downtown Nashua. The hotel features the Sporting Club restaurant and lounge for breakfast, lunch, and dinner, with room service available. For exercise, try the indoor swimming pool or take a quiet walk along the trails in the Merrimack Forest. The entire hotel is handicapped accessible.

A block of 50 rooms are set aside at special rates of \$45.00 single/double and \$55.00 triple/quad, not including 8% tax. Rates and rooms are guaranteed available until August 26. The hotel is now accepting reservations at (800)922-3477 or (603)424-6181. Be sure to mention the National Radio Club convention for special rates.

### Transportation

Air service is available from two convenient points - nearby Manchester Airport, and Boston's Logan Int'l Airport, one hour's drive away via U.S. Route 3. The hotel offers complimentary van service to and from Manchester Airport M-F 8am-10pm, given 48 hours notice. Several

independent shuttle services operate to and from Manchester,

Logan, and Boston's Amtrak train station. Make reservations directly with one of the following, or consult your travel agent.

MASSACHUSETTS

- \*M and L Transportation (617)665-7791 Logan hourly service.
- \* Minuteman Airport Service (508)649-9829 Manchester, Logan, and Amtrak.
- \*Hudson Bus Lines (603)883-4807 Logan Airporter service.

Individuals are responsible for their own room reservations and transportation to and from the hotel. The NRC will not be involved in room sharing and airport transportation arrangements. Convention Registration

A registration fee of forty dollars (U\$40.00) per person (spouse U\$25.00, children under 12 U\$16.00), which includes the banquet, is payable in advance Checks payable to the National Radio Club may be sent to NRC Convention, c/o Bruce Conti, 46 Ridgefield Drive, Nashua, NH 03062-1174 before August 26. Please register before August 26, to insure scating for the banquet. Specify whether you prefer chicken or beef. For further info, send a SASE with your specific inquiries to the same address. Hope to see you for the New Hampshire 1994 NRC Convention! 73s