

December 31, 1994 - Volume 32 - Number 16 - Edition 1042 - ISSN 899 - 9732

NEW MEMBERS: Mark Schiefelbein - Phoenix AZ, Paul Gough - Killingworth CT, Antonios Kekalos - APO. <u>REJOIN</u>: Shel Remington - Keaau Hl. <u>RENEW - ALS</u>: Tony Bratton - White Bear Lake MN, Steven Mittman - Seal Beach CA, Ron Messenger - Riverview Canada, Steve Ratzlaff - East Palo Alto CA. A Big Welcome to Mark, Paul, Antonios and Shel. The IRCA Thanks You All Very Much......

IN THIS ISSUE: DX Test - 2, Broadcasting Information - 3, IRCA Bookstore Ad - 5, DX Worldwide West - 6, Western DX Roundup - 7, Central DX Roundup - 9, Eastern DX Roundup - 11, Verifications received by Eric Bueneman - 12, Western DX Forum - 13, Eastern DX Forum - 14, Full Size/Full Performance Loop Antenna 15, Back Page - Club Addresses, Officers and Dues Information......

MEMBERSHIP RENEWAL: If your address label reads 32-16, 32-17, 32-18 it is time to renew your membership in the IRCA. Please renew early.....

1995 IRCA REGULAR ELECTIONS

-- from Bill Hardy - IRCA President

Every two years the IRCA conducts Regular Elections to determine the President, Secretary-Treasurer and seven members of the Board of Directors. For the 1995 Regular Elections, nominations for the nine offices begin on December 1, 1994 and continue through January 15, 1995. Each IRCA member in good standing may nominate one person for President, one person for Secretary-Treasurer, and seven people for the Board of Directors. Once nominations close, the Election Committee Chairman (ECC) sends a list of those nominated to the Secretary-Treasurer who determines if those nominated are eligible (must be an IRCA member for at least one year). The candidates that are eligible will receive a letter from the ECC by February 1, 1995 indicating their nomination and listing all other eligible nominations for the same office. Candidates must indicate to the ECC by February 20, 1995 whether they intend to run for office and can submit a campaign statement at that time (candidates are not required to submit a campaign statement). The ECC will prepare and submit a ballot and campaign statements to the Publisher by March 1, 1995 for inclusion in an appropriate March 1995 "DX Monitor." The ballots must be received by the ECC by 0001, Mountain Local Time on May 1, 1995.

Begining December 1, 1994, nominations are open for the positions of IRCA President, Secretary-Treasurer and the seven Board of Directors. Send all nominations to IRCA's ECC:

Reid Wheeler, 5910 Boulevard Loop SE, Olympia, WA 98501

HAPPY NEW YEAR TO ALL

DX TEST BULLETIN

** DX TESTS ARRANGED BY IRCA & NRC **

MONDAY, JANUARY 2, 1995 - WWSW-970, 1 ALLEGHENY SQUARE, PITTSBURGH, PA 15212 WILL CONDUCT A DX TEST BETWEEN 12:00 & 12:30 AM EST. THE TEST WILL INCLUDE TEST TONES, VOICE ID'S & MORSE CODE ID'S, RECEPTION REPORTS MAY BE SENT TO: MR. PHIL LENZ - ASSISTANT ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 2, 1995 - CHEF-1450, 76 RUE DUFFERIN, GRANBY, QUEBEC J2G 9L4, CANADA WILL CONDUCT A DX TEST BETWEEN 12:00 & 6:00 AM EST. THE TEST WILL INCLUDE MORSE CODE ID'S. RECEPTION POWER WILL BE 10 KW USING A DAYTIME ANTENNA PATTERN. REPORTS MAY BE SENT TO: MR. SYLVAIN BRUNELLO (VEZSBC) - TECHNICIEN, NOTE: IT IS HIGHLY RECOMMENDED THAT RECEPTION REPORTS BE WRITTEN IN FRENCH. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

SATURDAY, JANUARY 7, 1995 - KIUP-930, P.O. DRAWER P, DURANGO, CO 81302 WILL CONDUCT A DX TEST BETWEEN 7:15 & 7:45 AM EST. THE TEST WILL INCLUDE TEST TONES, VOICE ID'S & MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. JOHN MORTON - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 9, 1995 - WSUI-910, BROADCASTING SERVICE, UNIVERSITY OF IOWA, 3300 ENGINEERING BUILDING, IOWA CITY, IA 52242 WILL CONDUCT A DX TEST BETWEEN 1:00 & 1:30 AM EST. THE TEST WILL INCLUDE COMEDY SKITS, TEST TONES & MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. DENNIS REESE - PROGRAM DIRECTOR. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 9, 1995 - KTNS-1090, 40356 OAK PARK WAY, OAKHURST, CA 93644 WILL CONDUCT A DX TEST BETWEEN 8:00 & 9:00 AM EST. THE TEST WILL INCLUDE COUNTRY MUSIC, VOICE ID'S & MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. LARRY GAMBLE - GENERAL MANAGER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

SUNDAY, JANUARY 15, 1995 - KUAU-1570, P.O. BOX 565, KUAU, MAUI, HI 96779 WILL CONDUCT A DX TEST BETWEEN 5:01 & 5:30 AM EST. THE TEST WILL INCLUDE MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. RICHARD MILLER - OWNER. NOTE: THIS TEST WILL BE REPEATED ON MONDAY, JANUARY 16, 1995. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 16, 1995 - WPWA-1590, 12 KENT ROAD, ASTON, PA 19014 WILL CONDUCT A DX TEST BETWEEN 12:00 & 12:30 AM EST. THE TEST WILL INCLUDE MORSE CODE ID'S, AND WILL BE RUN AT 3,200 WATTS NONDIRECTIONAL. RECEPTION REPORTS MAY BE SENT TO: MR. LLOYD B. ROACH - PRESIDENT & CEO. NOTE: WPWA WILL SEND A SPECIAL QSL CERTIFICATE IN RESPONSE TO CORRECT REPORTS WHICH INCLUDE AN SASE. (ARRANGED BY THE NRC CPC)

MONDAY, JANUARY 16, 1995 - WVWI-1000, P.O. BOX 5678, CHARLOTTE AMALIE, ST. THOMAS, U.S. VIRGIN ISLANDS 00803-5678 WILL CONDUCT A DX TEST BETWEEN 2:00 & 3:00 AM EST. THE TEST WILL INCLUDE VOICE ID'S, MORSE CODE ID'S & "EASILY IDENTIFIABLE MUSIC". RECEPTION REPORTS MAY BE SENT TO: MR. RICK RICARDO - DIRECTOR OF OPERATIONS, (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 16, 1995 - KUAU-1570, P.O. BOX 565, KUAU, MAUI, HI 96779 WILL CONDUCT A DX TEST BETWEEN 5:01 & 5:30 AM EST. THE TEST WILL INCLUDE MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. RICHARD MILLER - OWNER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

SATURDAY, JANUARY 21, 1995 - KICY-850, BOX 820, NOME, AK 99762 WILL CONDUCT A DX TEST BETWEEN 5:30 & 6:00 AM EST. THE TEST WILL INCLUDE MORSE CODE ID'S, POWER WILL BE 10 KW USING A NON-DIRECTIONAL ANTENNA PATERN. RECEPTION REPORTS MAY BE SENT TO: MR. TOM GUILLIAM - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 23, 1995 - WXRS-1590, P.O. BOX 1226, SWAINSBORO, GA 30401 WILL CONDUCT A DX TEST BETWEEN 12:00 & 12:30 AM EST. THE TEST WILL INCLUDE VOICE ID'S, MORSE CODE ID'S, AND "REGULAR PROGRAMMING", AND WILL BE RUN AT 2,500 WATTS. RECEPTION REPORTS MAY BE SENT TO: MR. JEFF WIGGINS. (ARRANGED BY THE NRC CPC)

MONDAY, JANUARY-23, 1995 - KSYG-1010, 2400 COTTONDALE LANE, LITTLE ROCK, AR 72202 WILL CONDUCT A DX TEST BETWEEN 3:15 & 3:30 AM EST. THE TEST WILL INCLUDE TEST TONES & MORSE CODE ID'S. RECEPTION REPORTS MAY BE SENT TO: MR. NORM LARAMEE - CHIEF ENGINEER. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

MONDAY, JANUARY 30, 1995 - CFRY-920, 1500 SASKATCHEWAN AVENUE WEST, PORTAGE LA PRARIE, MB RIN 0N6, CANADA WILL CONDUCT A DX TEST BETWEEN 1:00 & 1:30 AM EST. THE TEST WILL INCLUDE COUNTRY MUSIC, VOICE ID'S & MORSE CODE ID'S. POWER WILL BE 25 KW USING THEIR DAYTIME ANTENNA PAYTTERN. RECEPTION REPORTS MAY BE SENT TO: MR. RED HUGHES - STATION MANAGER. NOTE: CFRY WILL KEEP A PLAYLIST OF SONGS PLAYED DURING THE TEST, SO REPORT ANY SONG TITLES YOU HEAR. (ARRANGED BY J.D. STEPHENS FOR THE IRCA CPC)

BROADCASTING INFORMATION



Editor: Robert Wien 1309 Dentwood Drive San Jose, CA 95118

DEADLINES: 2nd & 4th Saturdays. Compiled: 12/20/94 Much of this information was compiled from M Street Journal , DXM, and various other sources.

CONSTRUCTION PERMIT ACTIVITY:

KCBN-130 decreases to 820/820 NV. Reno WV. Charleston WCAW-680 decreases to 10000 w. days

FACILITY & PARAMETER APPLICATIONS:

IN. Fort Wayne WOWO-1190 decrease to 9800-N, class B LA. Pineville KTLD-1110 increase to 2000-D, ND MO. St. Louis KSTL-690 18-N NY. New York City WLIB-1190 increase to 30000-N SC. Florence WJMX-970 increase to 10000-D

FACILITY & PARAMETER GRANTS:

AZ. Black Canyon CityKUET-710 modify existing CP to be DA-N KCCF-1100 increase to 50000-D (CP) Cave Creek

CALL LETTER CHANGES:

KSUV-1590 becomes KJAZ CA. McFarland co. Rifle KKGD-810 becomes KRGS FL. Brandenton WJRB-1490 becomes WYMZ Pine Hills WGTO-540 requests WWZN WInter Park WWZN-1440 becomes WPRD WPAS-1400 becomes WZHR "Zephyr" Zephyrills LA. New Orleans WNOE-1060 requests WLNO MA. Boston WSSH-1510 requests WNRB MO. Kennett KNNT-1540 requests KBOA NC. Statesville WAME-550 becomes WHYM "Hymm" TN. Chattanooga WMOC-1450 becomes WLMR TX. Highland Park KVIL-1150 becomes KDMM "Dallas Memories" Lubbock KTNP-1460 becomes KBZO WA. Lacey KLDY-680 requests KBRD "K-bird" (CP)-1560 becomes WAJP WI. Atoona

FORMAT CHANGES:

AL. Ozark WQLS-1200 was nx, talk, now WW1 AS AK. Eagle RIVER KFFR-1020 was contemp. Xtian, now silent KMET-1490 was silent, now nx/travel info CA. Banning KEYQ-980 was stds., talk, now talk & sports Fresno KYNO-1300 was 50's/60's oldies, now SEN/ESPN sports (still noted w/oldies as of 12/19-ed.) McFarland KJAZ-1590 was reg. Mexican//FM, now silent KZIQ-1360 was s. gospel, now JSN soft AC//FM Ridgecrest Roseville KRCX-1110 was SS hits, now regional Mexican KTHX-1400 was stds., talk, now talk and sports Visalia WNEZ-910 was nx, adds ESPN Sports Babe CT. New Britain WECY-1280 was 70's oldies, now silent DE. Seaford

FORMAT CHANGES (CONT.):

	FL.	Ocala Pensacola		was silent, now WW1/CNN Headline nx was travel info, adds sports talk (1- 4 PM, 8-10 PM)	
		West Palm Beach	WRZT-1290	was talk, adds WW1 Don Imus	
		Winter Park			
				was WWZN, sports, now nx/talk//WTRR	
		Zephyrills		was WPAS, talk/EZL, now AS	
	GA.	Carrollton	WPPI-1330	was silent, now oldies, talk	
	TD.	Payette		was SS, now rock//FM	
	TD.	Pocatello		was country, adds ESPN Sports Babe	
			MIN-1240	was country, adds ESFN Sports Babe	
	IL.	Sycamore	M20K-1200	is new, full service soft AC (Jones	
				soft AC mixed with local nx/info)	
	IN.	Marion	WGOM-860	was AC, talk, adds JSN AC	
		Richmond		was AC, talk, adds Sports By-Line	
		Waterloo		was silent, now contemp. Xtian	
	KY.	Louisa	WVKY-1270	was country, now PRN nx, talk	
	MD.	Funkstown	WPVG-1160	was country, now silent (lost xmtr	
				site, moving to new xmtr site)	
		D C-1-1 71-	LTCT 1100		
	MS.	Bay Saint Louis		was country, now hot AC	
		Kosciusko	WKOZ-1340	was country//FM, now WW1 AS	
	MO.	Liberty	KCXL-1140	was silent, now JSN oldies	
		St. Louis		was religion, ethnic, now rel., black	
		St. Duis	NOID-030		
			1	gospe1	
	MT.	Dillon	KDBM-1490	was country, adds JSN country	
	NE.	Omaha		was soft AC//FM, now SMN urban gold	
				was rock//FM, adds sports talk (ESPN	
			KE20-1490		
				Sports Babe, SportsFan network)	
	NM.	car1sbad	KAMQ-1240	was oldies, now contemp. Xtian "Q-1240"	
		Roswell	KCRX-1430	was SS, now WW1 AS	
	NY.	Plattsburgh		was nx/talk, now silent (lost xmtr, re-	
		1 Idoobbargii		placing it in Spring 1995)	
			1220		
		Roanoke Rapids		was SMN Kool Oldies, now SMN oldies	
	OH.	Springfield		rptd., country, remains talk/sports	
		Xenia	WBZI-1500	was country, talk, now contemp. Xtian	
	PA.	Harrisburg	WKBO-1230	was bus. nx, now WW1/CNN Headline nx	
		Hughesville		wa silent, now nx/talk//WRAK	
	SC.	Anderson	WANS-1280	was country//FM, now 'variety pack'	
				(talk 7-11 AM, stds. 11AM-6PM, sports	
				6-8 PM, C&W 8 PM-7AM!)	
		Bishopsville	WACC_1300	was country, now Reach s. gospel	
		Rogersville		was country//FM, adds JSN CD C&W//F	
	TX.	El Paso	KHEY-690	was SMN Kool Oldies, now SMN oldies	
		Hemphill	KAWS-1240	was country, talk, now rock	
		Lubbock		was KTNP, Tejano, now regional Mexican	
	WA.	Richland	KALE-960	was oldies, now AP nx, EFM/WW1 talk	
	Ye e	editor passes on	the follow	ing info:	
		Passas Passas			
	~	C D	WORR EOO	17 1771 //51/ 55 117	
	CA.	San Bernadino	KSZZ-590	was KHTX, country//FM, now SS, "La	
				Super Zeta" (the Super Z) slogans	
		Sacramento	KSOR-1240	was KSAC, silent, now SS, "La Nueva	
				Super Q 2-40" slogans (this info	
				also confirmed by Rich Toebe of Fair-	
				field, CA)	
				on the fellowing info.	
Shawn Axelrod of Winnipeg, MB. passes on the following info:					
	ON	Tillbury	CP-1490	application for new station never	
	OIV.	IIIIbury	0	made it to hearing!	
				made it to hearing:	
		Owens Sound	CFOS-560	CP to move to 1610 khz., 1000 w.,	
				don't know what they plan to do with	
				CFPS-1490 if they move	
				on the following info.	
	Da1	e Park of Honolul	u, Hawaii	passes on the following info:	
	UT	Wailuku	KMVI-550	adds CNN nx	
	ur.			adds KITV Ch. 4 nx relay 5 PM, 6 PM	
		Honolulu			
		Eleele	KUAI-720		
		Honolulu	KGU-760	drops "Sports By-Line USA"	

Kealekakua KKON-790 adds AP NxStation service Kahului KNUI-900 adds CSN "Radio Aahs" Honolulu KWAI-1080 adds MBS, Tom Leykisw, drops Sun net, HI. Headline News net Kihei KAOI-1110 drops America in the Morning", adds "Larry King Live" for certain guests WJJD-1160 was big band, is talk "The New AM 1160", IL. Chicago adds Leykis, Bohannon was big band, AS, is talk, adds Bohannon, CA. West Covina KGRB-900 "America In the Morning" (ed note: Dale reported them as being KNBC now, but still KGPB per monitoring, but does use NBC-90 slogans, may become KNBC soon) WTKZ-1320 was WKAP, AS, now talk "1320 Talks", adds PA. Allentown

Leykis Tom Leykis also added to WMBQ-630 GA., WCGC-1270 NC., KLKI-1340 WA., Jim Bohannon added to WKBQ-1380 MO. and WPRD-1400 FL. ex-WTRR

Whew, a long column, the FCC caught up before going on their Xmas break! Lots of stuff going on right towards the end of the year as is a tradition with many stations. 5 days till Xmas, may that KIWA loop be waiting in your panty hose hanging from your fireplace 73's. mantle!

IRCA BOOKSTORE

IRCA AM-FM ALMANAC, 5th Edition 1991 - (Reprint)

This 240 page book is a must have cross reference for the serious AM DXer. Within it you will find the current frequency check list, affiliates for news and talk show networks, syndicated music and religious programs, AM-FM simulcasts, station slogans, broadcasting in Canada, AM stereo, sports networks, utility stations and many articles on AM broadcasting. In addition, the fifth edition contains a section focusing on AM band foreign DXing (including a compressed IRCA Foreign DX Reference). Each list is in frequency order and many include the FM frequencies as well as the AM (great for FM DXers).

IRCA AM-FM Almanac is available loose leaf or comb bound (please specify). Prices are:

IRCA/NRC member: US - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00 non-members: US - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

IRCA AM-FM Almanac, 5th Edition 1991 Updaters are also available from the IRCA Bookstore!

<u>Updater 5.1</u> - Almanac index, AM slogans. <u>Updater 5.2</u> - Satellite Music Network, Unistar/Transtar, talk updates, BRN, 1991 Baseball. <u>Updater 5.3</u> - updated NFL and college football, NHL Hockey, 530/1610 TIS/Highway Radio update, Rush Limbaugh. <u>Updater 5.4</u> - updated NBA and college basketball, ABC-AP-UPI-USA network lists, ESPN-SEN sports talk lists, Canadian Music networks and more. Updater 5.5 - 1992 baseball, Spanish networks, Interstate Radio Network and AM Slogan list updates.

Each IRCA AM-FM Almanac, 5th Edition 1991 Updater is 20 pages. Price \$2.00 US and Canada, \$3.00 elsewhere.

[NOTE: IRCA Almanac (third and fourth editions) are still available for \$5.00 (overseas airmail add \$2.50)]

Order from the IRCA Bookstore, by sending the correct amount (in US funds) to:
IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117.

A DXers TECHNICAL GUIDE

Now in its 2nd edition, this 120 page book answers questions on receiver and antenna theory (how to improve their performance), how audio filters and loop antennas can improve DX (and hints on their construction), how to build a beverage and phasing unit, and much more. Only \$5.50 for IRCA/NRC members, \$6.50 for non-members (overseas airmail add \$2.50).

Order from the IRCA Bookstore, by sending the correct amount (in US funds) to: IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117.

IRCA Mexican Log, 3rd Edition

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, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. In addition, 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) includes frequency, call and day/night power. The log has been completely updated from the 1990 edition and carefully cross-checked by IRCA members in Mexico and the US. This will be an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11" and three hole punched for easy binding (optional). Prices: IRCA/NRC members - \$6.00 (US/Canada/Mexico/seamail), \$7.00 (rest of the Americas airmail), \$7.50 (Europe/Asia airmail), \$8.00 (Australia/New Zealand airmail). Non-members: add \$2.00 to the above prices.

Order from the IRCA Bookstore, by sending the correct amount (in US funds) to: IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117.



DX Worldwide - West

PAT MARTIN PO BOX 843 SEASIDE, OR 97138 Time: UTC Phone (503) 861-3185

DEADLINE: MONDAYS

PAN-AMERICAN DX ROUNDUP

- 531 UNID, have been hearing SS station here with SS ballads, with TIS-Astoria phased(530)-noted at 0555 on 12/20. Has anyone else been hearing this? Costa Rica-Radio Rumbos was vf here several years ago. (PM-OR)
- 720 MEXICO, UNID w/Radio Formula network prog. breaking through KDWN 0345 12/12. (LG-MT)
- 920 MEXICO, Ensenada, BCN XESDA atop KXLY w/partial ID at 0344 12/8.

 Man said "una estacion de Radio...en la hermosa ciudad de Ensenada, Baja California." New for me. (LG-MT)
- 950 MEXICO, UNID w/Radio Formula network nx, strong at 0340 12/8. New IRCA foreign log doesn't list an ORF affiliate here. Loop bearing suggested XEKAM-Tijuana. (LG-MT)
- 1069.5 UNID, in SS man talking at 0351 12/10. Possibly Colombian as MER-1685 was in strong. (LG-MT) (I heard Colombia here last year.PM) UNID, with weak audio at 0340 12/10. Counldn't ID language, but
- looped toward Latin America. (LG-MT0
 UNID, carrier here weakly in KGA-1510 splat at 0550 on 12/19. No audio noted. (PM-OR)
- 1685 $\frac{\text{COLOMBIA}}{12/10. \text{ (LG-MT)}}$, Mercaderes beacon MER strongest ever hrd at 0349 on
- + Also noted fairly good at 0610 on 12/19. (PM-OR)

 MEXICO, Guachochic, Chih.-12/12 1312 Good o/WWL in KORD null, KIEV off air til 1315 for maintenance, nice ID on fade up after brief spurts of classical mx,OM ancr ID "en la voz de Sierra Tarahumara" this slogan matches IRCA Mexican list. Guess calls mean XE-Tar ahumara. New for me. (RW-CA)

TRANS-PACIFIC DX ROUNDUP

- 1475 <u>UNID</u>, again with 1000 cps tone on & off, moderately strong 12/10 1456-1458. Then OC only. Man started speaking at 1500. (LG-MT)
- 1566 UNID, with man and woman speaking rapidly in unknown language. 12/11 1259-1301. No IS on hour. HLAZ? (LG-MT) (Probably.PM)
- 1613a <u>UNID</u>, man and woman talked in animated voices at 1359 12/11.Poss. North Korea. (LG-MT)

VERIFICATIONS

BANGLADESH, Radio Bangladesh-Khulna-rec. beautiful full detailed in 95d-after sending taped reg. report-Address: National Broad-casting Authority(Research Wing) NBA House-Shahabag Avenue-Dhaka, Bangladesh-Md. Ramizuddin Bhuiya-Senor Eng. (PM-OR)

THANKS TO THESE REPORTERS

- LG-MT LARRY GODWIN-2390 CLYDES DALE LANE-MISSOULA MT 59801 Hammarlund HQ-150, Sanserino air core loop
- RW-CA ROBERT WIEN-1309 DENTWOOD DRIVE-SAN JOSE CA (5118
- Superradio, Radio West Loop
- PM-OR YOUR EDITOR
 Drake R8, term. 1500' Eastern Beverage Ground system



WESTERN DX ROUNDUP

Nancy Hardy 2301 Pacific Avenue Aberdeen, WA 98520-4527

Electronic Mail: 73201.2263@CompuServe.com, Prodigy FMFT21B, or

NancyHardy@AOL.com. E-Mail deadline: 6pm Mondays.

WDXR DEADLINES: Sat. 12/31, then every Monday beginning 1/9/95. Please use Eastern

Time

REPORTERS FOR THIS ISSUE:

(FA) Frank Aden-4096 Marcia Place-Boise, ID 83704

Modified FRG-7, modified Radio Shack TRF, Sony SRF-42 AM stereo Walkman,

45' N-S longwire, 180' L-longwire, 4' box loop

(LG) Larry Godwin-2390 Clydes Dale Lane-Missoula, MT 59801 Hammarlund HQ-150, Sanserino air-core box loop & KIWA loop

(HLH) Harry Helms-7445 Andasol St.-San Diego, CA 92126

Drake R-8. Hammarlund HQ-150, 2' Sanserino loop

(PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138-0843

Drake R8, 2000' NNW Beverage, 1500' E Beverage, terminated 200' SW wire

(DS) Dan Sys-27423-32nd Avenue-Aldergrove, BC V4W 3J3

(RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118 GE Superadio II, GE long-range portable, SM-2

680 CHFA AB, Edmonton 12/7 0730 fair in KNBR null with classical music and Radio Canada French programming. (DS-BC)

KERR MT, Polson 12/14 0800 had open carrier, then s/on (no anthem). Normally AN. 750 (LG-MT)

CJWW SK, Saskatoon 12/6 0730 blasting in way over KXL with C&W. Minus 22° C. in Saskatoon. Listened to them for about 1/2 hour and didn't hear any mention of the planned move to FM. (DS-BC)

KOQO CA, Clovis very strong 12/7 at 2358 in Spanish with several ID's as "La Super Q." At 2400 man gave ID in English as "KOQO AM and FM, Clovis-Fresno." (LG-MT)

870 *KIEV* CA. Glendale 12/12 0800-0815 noted with open carrier, s/on back on regular schedule at 0815. Logged new Mexican XETAR-870 in their absence! (RW-CA)

1150 KAGO OR, Klamath Falls 12/5 0100-0200 running "Dr. Demento," good signal at times.

KQQQ WA, Pullman 12/9 1000 gave ID as "Talkradio KQQQ." First time heard; only 200 miles away. (LG-MT)

TX, San Antonio 12/13 0756 moderately strong with ID "WOAI, Newsradio 1200." 1200 WOAI (LG-MT)

1210 CFYM SK, Kindersley 12/6 1715 gee Nancy, I hate to tell you this but these guys were on top of KBSG too with an ad for the Kindersley Co-op, a dual CJYM-CFYM ID, and into a Christmas song. (DS-BC) (Oh no, not on top of my KBSG, hi.-NH)

1230 KQIK OR, Lakeview 12/12 0400 way on top of frequency with ID "Merry Christmas and happy holidays from the new Q-93, KQIK AM and FM, Lakeview-Goose Lake-Alturas" (so definitely not KRIT). (RW-CA)

1240 KSUE CA, Susanville 11/30 0000 fading in & out under KEJO with adult contemporary music. Legal ID heard. (DS-BC)

1290 KGVO MT, Missoula 12/8 0755 finally logged this "elusive" station over/under KUMA. "Newstalk 1290." Into business report. (DS-BC)

WA, Longview 12/11 1100 fair over KLCK & CIOR with adult contemporary music, 1400 KEDO legal ID, and into ABC news. (DS-CA)

- 1480 KRXR <u>ID.</u> Gooding is now oldies, ex-C&W. 12/13 at 0800 announcer said "This is the home of good times and great oldies, stereo 1480, KRXR, Gooding." Strong. (LG-MT)
 - CKER AB, Edmonton 12/14 1000 gave legal ID and began program in Italian. QRM from KNTB. (LG-MT)
- 1490 KOWL CA, South Lake Tahoe 12/7 2300 good signal simulcasting "93.9 KRLT." I had assumed there was a call change on 1490 until the legal ID was heard...still KOWL. (DS-BC)
 - KVAC WA, Forks 12/10 0900 in briefly atop the mess for legal ID "KVAC & KLLM-FM Forks...your vacation station." (DS-BC)
 - KGHO WA, Hoquiam 12/2 2000 poor signal with religion under KRNR & KLOG. Legal ID heard which also mentioned KGHO-FM. (DS-BC)
- 1520 KOMA OK, Oklahoma City surprised me Monday 12/12 with relig. program. At 2300 "Radio Bible Hour" ended and "Southwest Radio Church" began; legal ID in between. But 12/13 had regular oldies program at same hour. (LG-MT)
- 1530 WSAI OH, Cincinnati 12/12 0423 with ID "1530 WSAI" under KFBK, adult standards format. (PM-OR)
- 1540 KXEL <u>IA</u>, Waterloo 12/4 0500 poor in KBLV null with legal ID & into CBS news. Another "elusive" ex-clear channel station logged. (DS-BC)
- 1600 WWRL NY, New York 12/12 good at times with Black Gospel music & preacher, ID at 0045 "Radio 16, WWRL." I wonder if they have had a pattern change? 2nd time heard. 0056 gave phone number & asked for calls from E. NY. (PM-OR)
- 1610 TIS OR, Bandon? 12/3 0015 I assume this was the TIS I heard talking about the Oregon Forestry Industry in great detail. Coming in very strong...anyone know the power of these guys? (DS-BC) (Maximum power for a TIS is 10 watts.--NH)
- 1710 TIS

 CA, Anaheim has stopped transmitting here, per phone call from traffic engineer Nathan Behura. The FCC granted them an STA (special temporary authority), then revoked it because 1710 is not a normal TIS frequency. Power was 10 watts. May seek 1700; area has stations now on 530 and 1500. (LG-MT)

DX TESTS

- 580 WIBW KS, Topeka 12/19 0206 one lengthy code ID through mess under nulled KMJ, nothing else heard. New state, thanks J.D. Stephens! (HLH-CA)
- 620 (KGTL) AK, Homer 12/3 0530-0600 nothing heard, had hoped this one would make it. In KIDO-630's null. (FA-ID) +12/3 0545 DX test tried but KINK was totally dominant. (DS-BC)
- 760 CKQR <u>BC</u>, Castlegar 12/11 0300 heard one code ID mixed with oldies music, good signal at times under KFMB. (FA-ID)
 - +12/11 0400 blasting in (as usual) with satellite "Good Time Oldies," ID's as "Sunshine Radio," and Morse code ID's about every 15 minutes. (DS-BC)
 - +12/11 0400 "local-like" signal with 20kw ND, 40 DB/S-9. Morse code and regular programming of "oldies" satellite net. Unneeded, as this is heard during the day in the winter! (PM-OR)
 - (CKQR) +12/11 0530-0600 DX test tried, apparently not on. CKQR running normal Good Time Oldies program, no Morse code ID's, tones, or anything. CKQR's signal was weak on top of that in KFMB null, didn't sound like 20kw ND! Was test run? (RW)
- 790 (WEAQ) WI, Eau Claire 12/12 0230-0300 test tried in KABC null, not heard, only KWIL in with usual good signal, KGHL in underneath them as usual. (RW-CA)
- 950 (WSPA) PA, Spartanburg 12/12 0330-0400 nothing heard. (FA-ID)
 - +12/12 0330-0400 test tried, not heard. Nulled XEKAM, only got KJR/KOZE mix as usual, not even KKFN-CO! Still need this call change. (RW-CA)
- 1150 (WHBY) WI. Appleton 12/5 0100-0200 nothing heard, KAGO dominant. (FA-ID)
- 1340 ?CKGF? <u>BC</u>, Grand Forks 12/11 no sign of signal during Morse code. Someone here // to oldies-760 at 0420, but several stations run network. (PM-OR)
 - (CKGF) BC, Grand Forks 12/11 0300-0600 used HQ-180 with MW-1 to monitor to see if anything matched CKQR but unable to do so. In KTIK's null. (FA-ID)
 - +12/11 0430 no sign of DX test here. Tried on & off for an hour but KLKI & KWWX were dominant. (DS-BC)
 - +12/11 0530-0600 nothing heard on 1340, see 760. (RW-CA)

1460 (KLTC) ND. Dickinson 12/6 0230-0300 nothing heard. (FA-ID)
+12/6 0245 KMWX & KARR killed any hopes of hearing the test here. (DS-BC)
1590 (WERA) IL. Plainfield 12/10 0430-0500 nothing heard, KPOZ dominant. (FA-ID)
(WTRW) WI, Two Rivers 12/4 00530-0600 nothing heard. (FA-ID)

It's hard to believe, but 1994 is over! This has been a special year for me, as on November 13 I realized a 30 year old dream. If you know me well, you know what that was, hi. I hope that 1995 will be as special for you as 1994 was for me!

Central DX Roundup



AMERICA ON LINE: JOHN 153816

Editor: John C. Johnson



FOR THE RECORD

ADDRESS YOUR REPORTS TO:

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SNAIL-MAIL: 979 NEPTUNE BLVD., BILLINGS, MT 59105-2129

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RIDING GAIN

[PAL-MN] Paul A. LaFreniere, P.O. Box 606, Grand Marais, MN 55604

Zenith Transoceanic, McKay-Dymek DA-5.

[TN-WI] Tim Noonan, 4609 Crescent Road, Apt. 5, Madison, WI 53711-4672 Drake SW-4A. "Radio West" loop.

E-Mail: Internet: tnoonan@macc.wisc.edu Bitnet: tnoonan@wiscmacc

[JJR-WI] John J. Rieger, 801 Sherman Avenue, South Milwaukee, WI 53172
Panasonic RF200, RF2600, Kenwood R1000, Icom IC-R70, Realistic DX 380, GE

SupeRadio. Kowalski loop.

COMPUSERVE: 74444.3075

[JcJ-MT] Your editor using an Icom IC-R71A with a Radio West loop.

DOWN THE DIAL

640 CHOG ON, Richmond Hill. 12/3 poor. 1950 with spot for a cable TV channel. Noted 640 sounded like a GY channel. [PAL-MN]

690 WTIX LA, New Orleans. 12/9 fair. 1900 with ID into news followed by a program called "Jazzology" an all Christmas jazz show. [PAL-MN]

920 CKNX ON, Wingham. 12/8 fair. 2057 with a give-away promotion. Named winners, mentioned CKNX. Country music followed, then quickly faded. [PAL-MN]

990 KRMO MO, Monett. 12/10 fair. 1757 with legal ID mentioning two // stations. [TN-WI]

WLDX AL, Fayette. 12/12 poor. 1816 out of spots with "Merry Christmas from your friends at WLDX." Is this really 42 watts? New for me. [JJR-WI]

1130 KWKH LA, Shreveport. 11/27 completely dominating 1130 in terrible SSS conditions during snowstorm. No sign of KFAN, WISN. 1750 with country music and IDs. [PAL-MN]

1260 WWJQ MI, Zeeland. 12/3 good. 1607 with SS Christian talk and music. [PAL-MN]

1270 WFRN IN, Elkhart. 12/3 good. 1600 with ID "AM 12-70 WFRN" and promo for "Money Talks" program. [PAL-MN]

1320 KOZY MN, Grand Rapids. 12/13 fair with others. 0937 out of ABC Sports with "13-20 KOZY" into oldies. Not needed, but rare here. [JJR-WI]

1340 KDLM MN, Detroit Lakes. 12/13 poor to fair. WLZR off. 0940 fade up with local spots, weather mentioned "...12 degrees here at KDLM Radio in Detroit Lakes." Small town and live sound, nice and new. [JJR-WI]

KROC MN, Rochester 12/9 poor. 2045 with Rochester Mayo vs Richfield high school basketball. [PAL-MN]

- KSMO MO, Salem. 12/12 fair. WLZR off. 1851 with station promo for local sports "...on 13-40 KSMO." [JJR-WI]
- 1380 WFCL WI, Clintonville. 12/3 poor in jumble. 1531 with state and local news. [PAL-MN] WKBQ MO, St. Louis. 11/27 fair and alone. 1808 with urban-type music, "Q-104" slogans. [PAL-MN]
- 1390 WLCM MI, Charlotte. 12/3 poor through mess. 1550 with talk about "Christian Radio WLCM." [PAL-MN]
- 1430 WION MI, Ionia. 12/3 good. 1525 with country music and "AM 14-30 WION" IDs. [PAI-MN]
- 1430 WRTH MO, St. Louis. 11/27 good. 1818 with "Back to back original hits on WRTH."
 [PAL-MN]
- 1470 KKSC IA, Sioux City. 12/12 briefly good, lost to WLOL. 0300 with legal ID. [JcJ-MT]
 - WBKV WI, West Bend. 12/3 fair. 1511 with Wisconsin vs Texas Tech basketball, local spots. [PAL-MN]
 - WLOL MN, Brooklyn Park. 12/13 good. 1030 with news and weather. Promo for CNN News on the hour. IDing as "Club 14, KLBB." BBD music. [PAL-MN]
- 1580 KFQC IA, Davenport. 12/12 fair. 1823 with "AM 15-80" slogans. No calls given. Standards format. Some local mentions. [TN-WI]
- 1600 KGST <u>CA</u>, Fresno. 12/12 good in KCRG null. KWMX off the air. 0201 with EE ID in SS programming. "KGST Fresno and KGST-FM Monterey." [JcJ-MT]

DX TESTS

- 790 WEAQ WI, Eau Claire. 12/11 DX Test fair to poor. 0231 with code IDs in DX test. Not needed. [TN-WI]
 +12/11 DX Test not heard here. I kept checking, wishing KGHL would have a power outage. [JcJ-MY]
- 950 WSPA SC, Spartanburg. 12/11 fair. 0331 with code IDs in DX test. [TN-WI]

25 YEARS AGO

January 3, 1970 issue of IRCA's "DX Monitor"....Jon E. Pearkins, Jr. of Burnaby, BC mentioned his 12-grade homework caused DX to suffer....Pat Martin of Warrenton, OR sent reports to JOQB-550 and ZCO-1020....Harry L. Helms, Jr. of Fort Mill, SC noted almost every split channel has a carrier or signal on it nightly....56 members had entered the DX Contests.

OPEN MIKE

When working toward the solution of a problem, it always helps if you know the answer. As we end 1994, let me wish all of you the best for the new year. I hope 1995 will bring you happiness. 73, John-John.

An Introduction to Broadcast Band DXing

This tri-folded brochure is ideal for explaining the Broadcast Band DXing hobby and the IRCA. It can be included with reception reports and given to other interested folks. Sub topics include "What is DXing?," "Broadcasting's early years," "The first DXers," "Clubs helped listeners share," "Our hobby today" and "DX clubs still unite listeners". It is two color printed on heavy stock. Price is \$0.35/brochure (US and Canada), \$1.00 (rest of the world). Minimum order is 10.

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The IRCA maintains a large file of articles which have appeared in past issues of DX Monitor. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. For a list of reprints, send \$1.00 to:

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Eastern DX Roundup

Editor: Mark McMillan 91 Hollis Avenue #2 North Quincy, MA 02171

34471

	RADIO .	ACTIVE INPUT
LF-FL)	Lee Freshwater: (KE4QLK)	414 SE 3rd St Ocala Fla
	Hammerlund HQ 145, loop.	

(MM-MA) Mark McMillan ed Kenwood 440-s G5RV (DR-KY) David Reitz 2523 So. Pope Lick Rd Louisville, KY 40299 Kenwood: R-1000 Palomar loop, GE Superadio IN THE LOG 530 WPBE 367 MA.Weston I-90 and I95 12/13 1200 Mass Pike har w/info on Pike (MM-MA) 530 WPBE 367 MA, Hopkington 12/13 1230 Mass Pike HAR located at service area nr I-495 and I-90, Some of the same messages as weston but area nr 1-495 and 1-90, some of the same messages as weston but info on construction at exit and on pike. (MM-MA)

580 WGAC GA, Augusta 11/29 1840 Lcl spots, ID. "This is the Austin Rhodes Show on Nx/Tlk 580 WGAC" # 863-5800, tlk show pgm, good. (DR-KY)

700 KSEU TX, Tomball 12/3 1840 Tlk show pgm, lcl spots (Hightower Radio) ID's" News Super Talk 700 K-S-E-U" good o/u WLW (DR-KY)

770 WVNN AL, Athens 12/12 1704 Local ads w/ promo for Barry Farber. Also caught on 12/11 w/ID as "News Radio 7700" (LF-FL)

770 WLWL NC, Rockingham 12/11 1745 "Gospel Lighthouse" s/off w/ssb faded just in time! (LF-FL) 780 WWOL NC, Forrest City 12/12 1659 Gospel mx w/ ID into USA nx.(LF-FL) 850 WPTB GA, Ststesboro 12/12 1830 w/Gos mx w/ID into the "Trader Hour. Signal over semi-local WRUF for about three minutes. (LF-FL) 980 WAZS SC, Summerville 12/08 1740 w/local anno. Into country mx.(LF-FL) 1090 WBAL MD, Baltimore 12/12 1656 Local news, great signal. (LF-FL) 1100 WSGI TN, Springfield 12/2 2110 HS football Springfield vs. Portland. lcl spots, ments springfield, NO ID fair o/u WWWE. (DR-KY) 1110 CKTY ON, Sarnia 12/4 2035 Dominant w/C&W Mx, ID "Todays Hot New Country AM 1110 CKTY" (DR-KY) 1140 WBXR AL, Hazel Green 12/11 1656 "Gospel Gold right here on WBXR". (LF-FL) 1160 WAMB TN, Donelson 12/09 0850 B.B. Promo Xmas mx, wx and ID into "Uncle Urei"?? (LF-FL) 1150 WCRK TN, Morristown 12/12 1620 w/B. Streisand song w/ID "Radio One-Fifty, WCRK...very poor but readable.(LF-FL) 1170 WLGO SC, Lexington 12/10 1853 v/poor w/local bullitin board type anno.
"Right hear on WLGO" (LF-FL)

1200 WSML NC, Graham 112/11 1627 w/PSA's ID 1630 "Hello Durham, Your

listening to 10,000 watt AM 1200 WSML, Graham Burlington. (LF-FL) 1220 WAXO TN, Lewisburg 12/3 2135 HS BB (Cornersville vs Eagleville) ID. "Your tuned to Clear Channel 1220 W-A-X-O" 1cl spots goood.(DR-KY)

1280 WANS SC, Anderson 2015 DATE? Trad country with hometown flavor long talk about Anderson Xmas prade. This was "LocalRadio" at its best! (LF-FL)

1290 KIUY TX, Crockett 12/4 2340 C&W mx, ID-"1290 K-I-V-Y" good and all alone (DR-KY)

1390 WEED NC, Rockey Point 12/10 1740 w/b.b. game and ID. Very poor. Have caught call letters before but never a complete ID. Tough for me w/local on 1370. (LF-FL)

1480 WTOY VA. Salem 12/4 2055 really strange Ethinic (Indian) pgming. ID w/s/off at 2105 (DR-KY)

1540 WPGR PA, Philidelphia 12/18 0830 Local ad for New Year party, ID's "Geator Gold Radio"into mx.(Whats a Geator??) (MM-MA)

TENATIVE

1430 WWJZ TN, Germantown 12/8 1830 relaying Little Rocks 93.5(??)FM W-D-R-E (???) local spots for Shugs BBQ in Little Rock, Boudreauxs Cajun food in Little Rock, rock mx ID-"The cutting edge of Rock on FM W-D-R-E (??) // WWJZ-1430 Germantown, This is really confusing. (DR-KY)

Great week gang, thanks to Lee and David. I now have a 486 machine $\hbox{E-MAIL}$ to follow. Best Xmas wishes and DXmas catches,73 Mark.

<u>VERIFICATIONS RECEIVED BY ERIC BUENEMAN</u> (NOUIH), 631 Coachway Lane, Hazelwood, MO 63042-1347

Period Covered: September 15, 1993-October 20, 1994

- 530 CIAO Brampton, ON: Verification letter, signed by Rick Sargent, Operations Manager. Language schedule also enclosed. Address is 50 Kennedy Road South, Brampton, ON L6W 3R7.
- 535 Radio Vision Cristiana, South Caicos Island, Turks and Caicos Islands: QSL card, signed by Bob Janney-KA4NYO, Chief Engineer. Address is: P.O. Box 2908, Paterson, NJ 07509.
- 540 CBEF Windsor, ON: Bilingual QSL card (in English for CBE-1550, French for CBEF), signed by Manny Pacheco, Supervising Technician (Technicien en chef). Address is 267 Pelissier St., 8th Floor, Windsor, ON N9A 4K5.
- 540 CBK Regina, SK: Verification letter, QSL card, signed by Heike Gauer, Radio Traffic and Scheduling. Schedule for CBC Radio and CBC Stereo also enclosed. Address is 2440 Broad St., Regina, SK S4P 4A1
- KSD St. Louis, MO: Verification letter, signed by Dave Obergoenner, VP/Engineering (now at KZIM-960/KEZS-102.9 Cape Girardeau, MO, whose parent company, Zimmer Broadcasting, owns WKBQ-1380/104.1 and WKKX-106.5 in the St. Louis market!) Address is 3100 Market St., St. Louis, MO 63103.
- 550 KTSA San Antonio, TX: Verification letter, signed by Eliza Sonneland, Program Director. Address is 4050 Eisenhauer Road, San Antonio, TX 78218.
- KLZ Denver, CO: QSL card, verification letter, signed by K.C. O'Brien-KE0VH, Chief Operator/Afternoon Host. Address is 2150 West 29th Avenue, Denver, CO 80211. (KLZ's parent company, Crawford Broadcasting, owns local KJSL-630.)
- 570 WAAX Gadsden, AL: Verification letter, signed by Bill Bussey-KJ4JJ, Chief Engineer. Addresses are 1716 Rainbow Drive, Gadsden, AL 35902 or P.O. Box 570, Gadsden, AL 35902.
- 570 WKYX Paducah, KY: Verification letter, signed by John R. Jones, Program Director. Address is P.O. Box 2397, Paducah, KY 42002-2397.
- 580 KKSU Manhattan, KS: Verification letter, signed by Ralph S. Titus. General Manager. Address is Extension Communications, McCain Auditorium, Manhattan, KS 66506-4701.

TO BE CONTINUED



Western DX Forum ****

Reid Wheeler 5910 Boulevard Loop SE Olympia, WA 98501

Deadline: Saturday 2 weeks before publication

Jim Hilliker, 1705 Withers Ave #14, Monterey CA 93940-1569 408-655-9769

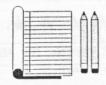
It's been way too long since my last forum and I meant to write this before th end of the year. Hope everyone has a safe and joyous holiday season. Right after my last forum appeared, KMBY-1540, Capitola (off since April 27th last year), came back on w/SS at the end of September, but on Nov 1st changed back to English with a format they call motivational talk. A board operator/announcer I know there says it's all on compact disc, but they call it the "Pertsonal Achievement Network" or the "Winner's Network" ... Another slogan is "Give us a half-hour, and you'll learn something new." Sked now seems to be 080-0300 except 0900 s/on on Sundays... Also, KIDD-630 Monterey came back on Friday, 12/2 with the Unistar AM only nostalgia format and they're 24 hrs NSP... Sounds good; they seem to have fixed up the bad audio quality that was on the old KXDC simulcast. KIDD/Magic 63 is now owned by owners of KWAV-96.9 FM in Monterey. They will also carry "Sounds of Sinatra" Saturday nights, Sundays, 1100-1600, Ed Dickinson's "Way Back Now" show with his own Big Band record collection from '30s and '40s is on. Ed had been on KNRY-1240 in recent years, but was with KIDD in the '60s and '70s. He came to Monterey in the early '50s at KMBY-1240 when Bing Crosby was a part-owner. Ed has a lot of listeners on the Central Coast and will be much welcomed Sondays on KIDD. So far, no plans for KIDD to go AM stereo. As 1994 draws to a close and 1995 starts, I wanted to say that KPPC-1240 in Pasadena became a 70-year-old radio station on Christmas Day, as they had their first broadcast on 12.25.24. Other L.A. stations which turned 70 in 1994 were KFRN-1280 in Long Beach (formerly KFOX and KFON) and KLAC-570 in L.A. (formerly KMTR and KFPG). With KIDD off since June, I was able to log two new stations, KIPA in HI and the Coquille OR station. The oldies on KFRC also came in much better while they were silent, hi. Good to see some great DX logged by various members so far this season. I wanted to mention that the TIS on 1620 for Pebble Beach has the calls WNZA-955. Good to see Pat Martin got veries from KCTY and KTGE here. May have been a type, but KTGE in Salinas is on East Alisal Street. Nice also to see KMPG-1520 and KNRY-1240 logged in BC in late-October. The promo heard for KNRY morning show is actually called "Seeing Beyond", which comes out of Santa Cruz, and I think is also on KEST-1450 and KOBO-1450, or was in the past, KNRY also simulcasts "Dave at Dawn" from 0900-1000 M-F from KLAV-1230 in Las Vegas NV. KNRY also carries quite a bit of jazz music from late Saturday afternoon until late Saturday night. Nothing new heard regarding when KOMY-1340 will come on and nobody seems to know a thing about 1200 for Soquel. Can't think of much else, everyone in my family's fine and I'll sign off now till next time. 73. Jim

Gary Jackson, 7735 Center Park Way, Sacramento CA 95823-4148

[12/9] Need help! Picked up unid station on 1660 kHz playing march music and some vocals but mosty John Phillips Sousa march music. No ID's. This was on 9/21/94 at 0658-0735 EDT. Mostly marches played. The radio convention was in Las Vegas at the time. Anyone hear of an experimental station like last year? Maybe Australia, etc. testing? Any help will be appreciated. I'm lost here. Don't know where to look next. 73's Gary

Larry Godwin, 2390 Clydes Dale Ln. Missoula MT 59801

[12/14] Greetings! Conditions haven't been that great here through mid-December. As of 12/14, no sign of the expanded band stations (1610-1700). A couple of thoughts: IDing stations testing their new transmitters on that band may be easier than usual, because they are likely to simulcast with their "regular" stations. There would be IDs usually on the hour, and often more frequently. Also, because of the simulcast feature, we may be able to log the "regular" station on its frequency by checking for parallel programs, netting a bonus. I ordered my 1995 WRTH from Gilfer a few days ago. Good DX and 73.



Eastern DX Forum

Richard C. Evans P.O. Box 21883 Milwaukee, WI 53221-0883 Phone: 414-ATlantic 2-9035

Deadlines: Saturdays Anniversary issue deadline: 2/25/94

Tom Laskowski, 2932 Rue Renoir, Apt. 121, South Bend, Indiana 46615

Internet: laskowsk@mas-tech.rn.com Looking back through my DX

Monitors I discovered to my horror and embarrassment that I have not
appeared in this column since Vol 31 #3 well over a year ago. I'm still
around but very inactive, mostly due to living in an apartment which is
noisy for DXing. I do still attempt to catch all the DX tests and have
been successful with a few of them. A few months ago in Sept., I spent
an enjoyable evening visiting with Tom Jasinski at Astrofest near
Bourbonnais, IL. Unfortunately it was not the best of nights for
stargazing but we did manage to look at a few nice things and chat about
DX. All in all it was a fun evening. I'm getting excited about the
upcoming band expansion even though my local WHLY (ex WIWO) 1580 will be
moving to 1640. If I'm lucky it'll be one of the last to move leaving
that frequency open here for a while. Lots of good DX tests coming up in
the next few weeks. With my company shutting down for the holidays I'll
have a little time to DX some. Maybe I'll even get enough material to
report to the CDXR again. 73.

R.C. Watts, 4109 Graf Drive, Louisville, Kentucky 40220-3016
Letter from WSLM-1220 indicates that WDHM-97.9 became WSLM-FM after 98.9 was sold. They also have a new TV 17 which I expect is low power. Something else to look into. I tentatively heard weak CW from CJGX-940 during 11/28 DX Test. Listening for WMAM-570, heard WAAX in Gadsden, AL instead, running the full 5000 w. ND during EBS for a tornado watch and later on a tornado warning. Also heard KFJM-1370 (verified). That frequency had a strange signal I've never heard before. Sounded like a squeaky wheel bearing on an old farm wagon or sometimes like a flock of wild geese flying over. We were in Fort Walton Beach, Florida for a weekend reunion and Christmas Party. I didn't take a radio and let me tell you it was a mistake. Looked at condos instead, but did find Beach TV on cable which is W43BC, Destin, FL. Located in the Visitor Center so may be a kind of video T.I.S. Got back to pooped for the 12/5 and 6 DX Tests. Happy Holidays from Cols DX and XYL. (second report) I visited WZZB-1390/WQKC-93.7 in Seymour, IN on 12/8. Took a few pix and was showed around by Greg Fisher, Operations Manager. The AM has one of those old transmitters with the window in front so you can see the big old tube glowing. Alongside is the newer FM back-up. The 25 kw FM on a nearby hill had just popped a fuse, so the back-up was running. The station was one of the nuclear protected EBS sites but the fallout shelter has been stripped of studio equipment and emergency supplies. Now just general storage. The emergency generator was disconnected long ago and looks like new. Generator room also relegated to storage. This was our Cold War Civil Defense at work in the 1950s and 1960s. A couple other things were here and there; the old AP teletype machine is still around and one of those big oak cabinet speakers is hooped up to the front office monitor receiver. On the way back down I-65, I stopped at Uniontown and took pix of the transmitter site there. Apparently that is WJAA-96.3, Austin

FULL SIZE/FULL PERFORMANCE

LOOP ANTENNA

During the past two decades the type of loop antenna used by most serious MW DX listeners has changed from full size air core loops to small, amplified ferrite or air core devices. Yet for the organization or individual who needs the ultimate in performance there are still compelling reasons for using the full size air core loop.

The loop antenna is used by the serious DXer for a number of reasons. (1) It is the only <u>practical</u> high performance antenna most of us can erect. (2) It is quieter and thus provides a better signal-to-noise ratio than long, high wires. (3) It can null interfering stations and local QRN. (4) It is a precision direction finding device when properly constructed and used. (5) The loop responds only to the magnetic component of the radio wave and most local noise is propagated largely by the electric component thus further improving the loop's S/N advantage.

While loops can sometimes be used to prop up economy receivers, this article is concerned with their use with top-of-the-line receivers. The receiver should do what it does best, provide low noise gain and adjacent channel selectivity. The antenna should do its job of providing the best possible S/N ratio on threshold signals with perfect 180 degree symmetry.

HISTORY

Loop antennas were widely used with home broadcast receivers in the 1920's (Figure 1) but had disappeared from the scene in favor of outside antennas by 1930. Around 1938 they reappeared mostly in small table radios. They were basket wound on cardboard or fiber forms about 12" X 8" and attached to the back of the sets. Zenith and GE had more advanced versions. GE called theirs the Beam-a-Scope and it consisted of a small air core loop which could be rotated within a Faraday shield. Zenith's was known as the Wavemagnet and was a conventional flat, basket wound loop sandwiched between a pair of Faraday shields. Neither was of much use for DXing.

The 1950's saw the ferrite rod antenna replacing the pancake loop in home broadcast receivers. These were the forerunners of today's amplified ferrite loops and are still used in most home and portable radio receivers.

Meanwhile, in 1946 the writer was the first to use the loop for serious foreign Medium Wave DXing. It was a 40" square box loop feeding an HRO receiver. It proved to be effective and attracted some of the prominent DXers of the day. Evan Roberts, the great foreign DXer (64 Australian, 21 Japanese veries from Massachusetts,) visited me and made a copy of my loop. Carlton Lord, Count de Veries, of RADEX fame, also visited me in the 1950's and published plans for the loop which he called the Moore-Roberts loop. I wrote the first article on the construction and use of the loop for MW DXing for DX Horizons magazine which they published in October, 1960.(Figure 2) The information in that article was widely copied. Just recently the Canadian International DX Club published a reprint of a British article on loops which was based largely on the DX Horizons article, including the drawings.

The best known of the large air core loops is the NRC alt-azimuth loop perfected by my late friend Gordon Nelson, the legendary DXer who heard over 130 countries in an urban location

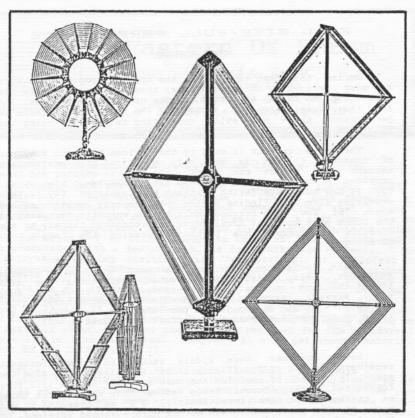


FIGURE 1. A sampling of loop antennas advertised in <u>Citizens</u> <u>Radio</u> <u>Call Book</u> and <u>Radio</u> magazines in 1925.

near Boston using only a loop antenna. His loop was a 35" square box type with a neutralized, balanced FET amplifier. It could also be used passively with link coupling. Nelson's main contribution was his introduction of tilting which allowed phenomenal null depths on local stations and the use of the amplifier which isolated the loop from the feedlin. This made possible unprecedented direction finding capability on sky wave signals. With the proliferation of amplified ferrite loops precision direction finding has become a lost art until recently.

In the early 1970's Joe Worcester introduced an amplified ferrite rod antenna which he called the Space Magnet. It was the first of many small amplified loop antennas, both ferrite and air core. Their only advantage when used with a top flight receiver is small size.

LOOP CHARACTERISTICS

There are six characteristics by which one judges the quality of a loop's design and construction. Most can be measured using the proper equipment.

1. MECHANICAL: The mechanical quality of a loop is as important as the electrical. For long term use and satisfaction the loop must have the feel and looks of a well crafted piece of equipment.

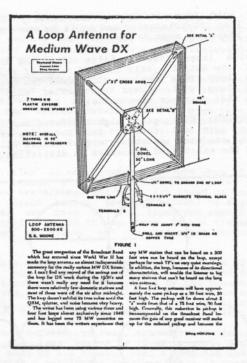


FIGURE 2. First page of an article on loop antennas in the October, 1960, <u>DX</u> <u>Horizons</u>.

Full size loops used by DXers in the past were bulky, top heavy and ugly. Lord's version, for instance, was four feet square with cross arms of 2" X 2" timbers, heavy metal angle brackets supporting the spreaders, all held together with 3/16" stove bolts. The average loop support was equally crude and unattractive.

2. SENSITIVITY: Calculations based on data in CCIR Report 322 show the minimum loop size required to reach the background noise level at all times and locations is approximately one meter square. There is a rule of thumb that the pickup of a ferrite loop approximates that of an air core loop with the same diameter as the length of the ferrite rod. Here is a table comparing the pickup of various loops relative to the pickup of a one meter square loop.

No. Turns	Relative <u>Pickup</u>
7	+1.4 dB
9	O dB
10	-1 dB
14 .	-4.7 dB
22	-13 dB
30	-19.5 dB
	7 9 10 14 22

These figures are not as damning as they appear for small loops since the background noise level increases dramaticaly during the period from just before sunset to just after sunrise. Therefore, a small amplified loop will probably resolve 95% of the signals that a full performance loop will just as a Sony 2010 will resolve 95% of the signals that the most expensive receiver will. However, the remaining 5% are the very stations

that the avid DXer is after. Sensitivity is <u>not</u> the most important loop characteristic and it is in the other areas where the small loops are most deficient.

Passive loops have a noise figure of one since the S/N ratio at the output equals the S/N ratio of the signal induced into the loop from the passing wave. The noise figure of an amplified loop will always be greater than one because the amplifier will generate some noise.

3. DISTORTION: High gain, high impedance amplifiers used with small air core and ferrite rod loops are prone to generate distortion products in strong signal areas. Full size, passive loops, on the other hand, generate no distortion products.

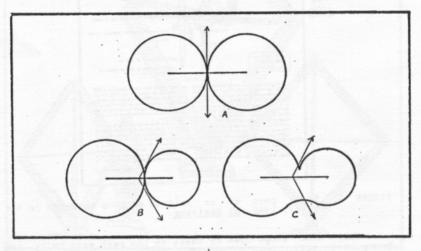


FIGURE 3 - Normal (A) and distorted (B,C) loop directional patterns.

4. 180 DEGREE SYMMETRY: This is the single most important measure of the quality of a loop's design and construction. The nulls must be identical on the two faces of the loop. The depth and direction of the null on one face of the loop should be exactly the same as that on the other face except that the bearing must be offset exactly 180 degrees. If not, the loop will give unreliable bearings when used for precision direction finding.

Figure 3A shows the directional pattern of a perfectly balanced loop. There are two nulls of equal depth exactly 180 degrees apart at right angles to the loop frame. Figures 3B and 3C show the affect of imbalance on the directional pattern. The nulls are not exactly 180 degrees apart and/or they are of unequal depth.

The cause of loop asymmetry is imbalance to ground and antenna effect. Imbalance to ground is the result of poor loop construction and reflection of feedline imbalance into the tank circuit. Antenna effect acts like a sense antenna to distort the loop's pattern. The cause is extraneous signal pickup in the tank circuit and transmission line. The signal can be picked up from long leads to the tuning capacitor, a physically large tuning capacitor, a range extending capacitor along with its switch and wiring, an uninsulated vernier dial, improperly terminated transmission line, and on and on.

- 5. NULL DEPTH: A perfectly balanced loop should exhibit the maximum theoretically attainable nulls. In practice the actual null depth depends on external factors such as the wavefront characteristics of the signal. The maximum achievable null depth will vary from station to station.
- 6. OUTPUT IMPEDANCE: The loops of the 1940's through the '70's ignored the output impedance of the loop and were just connected to the receiver via any old cable. Fortunately, receivers in those days had medium (300-500 ohms) to high impedance inputs and thus were not a disastrous mismatch to the 3000 ohm output of a MW loop with a single turn link. Run that 3000 ohms into the 50 ohm input of a modern receiver and you are practically shorting the loop.

The solution is to transform the 3000 ohms to 50 ohms and connect it through a 1:1 balun to 50 ohm coaxial cable to the receiver. The transformer and balun are wound on toroidal cores to prevent direct pickup (antenna effect) of signals. If the receiver does not have 50 ohm input you should use another matching transformer at the receiver. If the transmission line is mismatched at either end you will again introduce antenna effect.

There are a number of advantages to using a 50 ohm system. Standard 50 ohm cable is easily obtained and used properly eliminates direct pickup of the signal by the transmission line. Standard 50 ohm line amplifiers can be switched in and out which you can't do with the high impedance amplifiers in direct coupled loops. Most modern receivers use 50 ohm inputs.

Mismatches between the loop, transmission line and receiver can reduce the loop output by 10 dB or more. Such mismatches account for most of the reports that a loop did not have enough output to drive a particular receiver while it worked well with other receivers.

Matching of the loop, the transmission line and the receiver allows the loop to deliver the maximum possible signal power to the receiver witout adding noise or distortion.

SMALL LOOPS - UNDER 24"

Small loops can be either air core or ferrite core. They must be amplified because their signal pickup is from 5 to 20 dB below that of a full size loop. Even with amplification the signal-to-noise ratio cannot match that of a full size loop under marginal conditions.

- 1. ADVANTAGES: The sole advantage of a small loop is that it is small and thus can be made unobtrusive and sometimes attractive.
- 2. DISADVANTAGES: The disadvantages of small loops are (a) reduced signal pickup making amplifiers mandatory (b) degraded signal-to-noise ratio (c) susceptibility to intermodulation products in high signal areas (d) excessive loaded Q resulting in critical tuning, hand capacity and sideband cutting. (e) difficult to balance well enough for precision direction finding.

Most small loops are direct coupled into high gain, high impedance amplifiers. They are difficult to design and implement for superior intermod and noise performance and they can't be switched in or out as needed. Adding regeneration compounds the problems. In addition, the loaded and unloaded Q's are

essentially the same resulting in critical tuning, hand capacity and sideband cutting.

LARGE FERRITE LOOPS

Jim Hagan described a 48" amplified ferrite loop in <u>DX NEWS</u> in 1976. He had some problems with 180 degree symmetry and said "Weak signal performance is very good, although not quite equal to the NRC (Nelson) loop" The amplifier was one of the best designs of the time, an FET push-pull circuit with source follower output to match a 50 ohm line. It would have been interesting if he had used it as a passive loop without the amplifier.

Almost in the large ferrite loop category was the Radio West 22" model. My unit had a noisy amplifier but when it was replaced with an amplifier similar to Hagan's it was a good performer. Properly matched it also worked well as a passive loop.

LARGE AIR CORE LOOPS

State-of-the-art performance requires a full size, passive loop. Modern design practices allow us to build loops with a new level of performance and appearance. Slim and light weight, sensitive, perfectly balanced, immune to overloading and distortion, the modern loop is a precision instrument to enhance the performance of even the best receivers. There are two types of air core loops.

- 1. BOX WOUND: This is the most common method of winding a loop but it has a couple of serious disadvantages (a) it requires a massive and heavy frame because the outside turns, when pulled taut, place heavy torque on the frame (b) it has a large width to diameter ratio which degrades the nulling and direction finding ability.
- 2. SPIRAL WOUND: The spiral wound loop overcomes the problems of the box wound variety. It has an almost perfect width to diameter ratio since all the turns are in the same plane. Also, it is much lighter and more attractive because pulling the winding taut does not torque the frame so it can be made of lighter material.

The disadvantages of the spiral loop are (a) the difficulty in winding it when using the preferred method of placing the support holes through the center of the supports. It must be wound on a jig like a tennis racquet (b) it is almost impossible to center tap a spiral loop for use with a balanced amplifier which is why Nelson didn't use it for the NRC loop. Since additional gain is not needed and there are better ways of impedance matching this is not really a disadvantage.

RSM COMMUNICATIONS MODEL 105 LOOP

The RSM Communications Model 105 series of loops are wound on a 35" square frame and cover the frequency range from 150 to 7600 kHz. The antennas are designed for commercial and professional users who need a precision direction finding instrument sensitive enough to reach the atmospheric noise level. The loops are capable of unprecedented direction finding accuracy on both local and distant (sky wave signals). The antennas are also suitable for discriminating low band amateur operators and dedicated MW/LW/tropical band DX listeners.

The Model 105 evolved during two years of design and testing. More than a dozen prototypes were built and evaluated. Thousands of observations have been made and thousands of

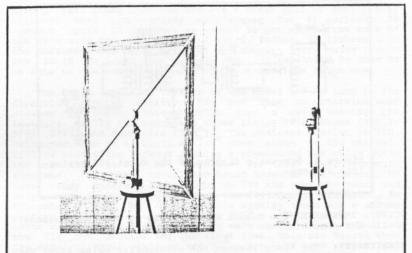


Figure 4. Front and side views of Model 105 Medium Wave loop.

bearings have been taken and continue on a daily basis. We are particularly proud of the mechanical design. The 105 has the same area and pickup as the NRC loop but weighs only two pounds and is so slim in profile that we considered calling it the "Stealth" loop. (Figure 4) It is assembled and sealed with West System epoxy and finished with marine polyurethane paint. No mechanical fasteners are used in assembling the frame yet it is stronger than any previous design and is immune to warping. The light and attractive Model 200 tripod is designed for use with all RSM loops. It features a precision 8½ compass rose calibrated in one degree increments.

Figure 5 is a schematic of the Model 105 series of loops. A variable capacitor tunes the main winding to resonance. The capacitor is selected for its small size and bulk to reduce antenna effect. A one turn link is embedded in the main winding and applies the signal to Tl, an impedance matching transformer which transforms the 3000 ohm output (MW model) of the link to 50 ohms. The signal is then applied to T2, a 1:1 balun, which isolates the feedline imbalance from the loop. The 50 ohm output goes to a S0-239 connector. Tl and T2 are wound on ferrite toroidal cores to prevent direct signal pickup.

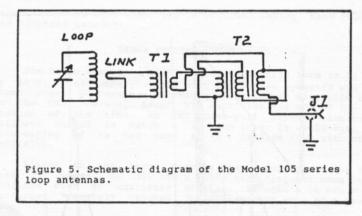
SPECIFICATIONS

Following are the specifications of the Medium Wave Model 105 loop antenna.

FREQUENCY COVERAGE: 440 to 1855 kHz in a single range.

MECHANICAL: The Model 105 loop is 35" square, spiral wound and weighs two pounds. It is constructed and encapsulated with West System epoxy using no mechanical fasteners in the frame. Standard finish is two coats of black marine polyurethane paint.

MOUNTING: Model 105 can be supplied with either a straight azimuth mount or an alt-azimuth mount which allows tilting for deeper nulls on local noise or stations. Both mounts terminate in a 5/8" diameter rod to rotate in the Model 200 tripod or any other support with a 5/8" inside diameter.



OUTPUT IMPEDANCE: The output impedance is 50 ohms to a standard SO-239 UHF connector.

SENSITIVITY: The loop reaches the atmospheric noise level when impedance matched to any good receiver.

180 DEGREE SYMMETRY: Measured at 790 and 1300 kHz. Null depths symmetrical to better than one dB. Null directions skewed less than one degree.

NULL DEPTHS: Attains maximum theoretically achievable nulls for a balanced loop. Actual depths depend on external factors such as wavefront characteristics and null blunting from local reradiation.

DISTORTION: No second or third order distortion is produced by the loop.

INTERCHANGEABILITY: All loops fit the Model 200 tripod and can be interchanged in 15 seconds.

PROOF OF THE PUDDING

Well, enough esoterica. How does it work? The proof of any piece of radio equipment comes on the air under real world conditions. Laboratory measurements are necessary but the true story emerges when trying to extract intelligence from a threshold level signal mired in noise with interfering stations all around. Too many people judge an antenna by its gain. How high it pushes the "S" meter. This is wrong. The right way is to find the quietest spot on the dial (1625 kHz works fine for me) and see if you can hear the atmospheric noise level. Then you find a threshold level station, preferably a TA or TP, and compare the readability of the station on your various antennas.

The Model 105 loops have achieved the high performance goals for which we aimed. With only a single, smoothly operating control they are a pleasure to operate. They rotate precisely and have near perfect symmetry. They easily reach the atmospheric noise level when matched to any good receiver and have demostrated unprecedented DF ability.

Weak signal performance is outstanding. We have heard TP carriers on over 50 frequencies from Japan in the north (once) to New Zealand in the south. In between (according to DF bearings) have been Australia, Tonga, Fiji, Samoa, Marshall Is., Kiribati and Tahiti. We have heard audio on six different frequencies, all in Australia some 10,000 miles away. Th's are



strong year round here and are not a great test of sensitivity although they are equally challenging for DF purposes. As sunspot cycle 22 declines we expect to get audio from more of the TP's over the next couple of years. Indeed, DX listeners in the Northeast and other parts of the country where noise levels are 10-15 dB lower than here in the tropics should be able to be able to get audio from many of these stations right now.

The most exciting feature of the Model 105 MW loop is its direction finding ability. You are able to determine what station is coming through with just a quick bearing. For instance, on 774 kHz there are three likely TP's, Japan (328°), Fiji (258°) and Australia (240°). The dominant station is 3LO, Melbourne, and it is right on 240° when alone on the channel. Fiji is also often present causing a pronounced SAH which pulls the null to about 247° as expected for two equal strength stations. Fiji has never been heard alone on the channel. We have taken hundreds of bearings on 774 kHz over the years and only once has it deviated from the Fiji/Aussie direction. In September, 1993, on a poor Aussie morning, there was a strong carrier, verging on audio, bearing 326°. This was almost certainly JOUB. Just this month we were unable to get a null on the 774 kHz carrier for the first time. This can happen when two equal strength stations are 90° apart as are Japan and Australia. Each will then fill in the null of the other.

The advantage of this type of DF ability is obvious. If you have already logged 3LO, for example, but need Fiji or Japan you just take a bearing and in ten seconds you know who is coming in. No waiting around for audio to fade in only to find it is 3LO.

One of my most coveted DX targets is Ascension Island. It has been heard in eastern US and its bearing is 108°. There are stations on both 1485 and 1602 kHz and I check those frequencies nightly. All I do is tune to the frequency with the bfo on and take a bearing. So far they have been $50-60^\circ$ (Spain) but one day I will get 108° and hit paydirt.

A final true story. DXers in the northwest US reported a new unidentified Pacific station on 1557 kHz in the July issues of DX News and DX Monitor. Speculation placed it from the Philipines to New Zealand. We had been hearing the carrier here for several months and had taken many bearings on it because it lay considerably north of most TPs. We reported in the August issue of the magazines that our average bearing of 285 placed it on a great circle path between Kiribati and the Marshall Is., through the Solomons, across Papua New Guinea and into Australia's Northern Territory. If a tentative ID in the September DX News is correct the station is on Majuro in the Marshall Is. with a true bearing of 284°. Not too far off.

CONCLUSIONS

Our experience with the Model 105 loops convinces us that the principles of good loop design discussed here are valid and produce a loop with a superior level of performance and appearance. The small air core and ferrite loops with their high gain, high input impedance amplifiers have their place, but ultimate performance is realized only with a full size air core loop properly designed and matched to the receiver.

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