



# DX Monitor

Devoted Exclusively to  
Broadcast Band DXing

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A couple of columns are missing this week due to mail problems, shortages of reports or whatever, but there's a nice balance of other material to keep just about everyone happy. We'll start with some bits and pieces of news from hither and yon....

Bill Hardy informs us that all those daytimers on Canadian clear channels (690, 740, 860, 990, 1010, and 1580) were allowed to go full time in September using low power and daytime antennas. Stations away from the Canadian border can use as much as 500 watts; those near the border must use less, sometimes less than 10 watts. If you've been hearing unids on these frequencies, it's probably one of them. Like pre-sunrise and post sunset authority, these stations are not being listed in Broadcasting Information. Instead, the FCC is notifying them of maximum allowable nighttime power and letting them go fulltime if certain engineering criteria are met. As soon as an agreement is reached with Mexico, similar nighttime operating conditions will be allowed on Mexican and Mexican/Canadian clears (540, 730, 800, 900, 1050, 1220, 1570). The recent earthquake in Mexico City has, of course, delayed the latter. Bill would like to compile a list of stations now fulltime on the Canadian clears (and later, the Mexican clears). If you have any such info, send it to Bill or mention it in a forum or roundup report. Bill's address is 2301 Pacific Avenue, Aberdeen, WA 98520.

If you've been having trouble getting reports delivered to KUYO-830, John Johnson says their address is Box 90395, Casper, WY 82609. Also, John says KOOK-970 is changing calls to KBIT, effective 11/4. Format will change from rock to c/w.

Local Area DX Clubs: We've recently received information on a couple of locally oriented DX/SWL groups. If you enjoy meeting with others of your own kind, then you may want to contact one of the following people (assuming you live near them, hi): Old Dominion DXers (ODDX), serving DXers in SE Virginia and NE North Carolina, meets on a regular basis and publishes a monthly newsletter; for more info send an SASE to ODDX Club HQ, 625 Charleccote Drive, Virginia Beach, VA 23464. Rocky Mountain Radio Listeners is aimed at Denver area DXers. It is somewhat informal and serves mainly as a vehicle for holding DX gettogethers. They publish an occasional newsletter, courtesy of a local radio dealer, informing those interested of upcoming gettogethers. For more info contact Wayne Heinen at 4131 S. Andes Way, Aurora, CO 80013

1986 World Radio TV Handbook The 1986 WRTH will be published in Jan. or Feb. 1986 and retail at \$19.50 in the USA; prepublication orders are being taken at \$17 Book Rate or United Parcel Service (please specify) in the USA only. For First Class Mail, please add \$2. The deadline for this special price structure is 10 January 1986. Thereafter, until further notice, the price is \$21 for Book Rate or UPS; First Class Mail will be \$24. Orders, with check or money order payable to CENTURY PRINT SHOP, should be mailed as early as possible to: Century Print Shop, Don Erickson, 6059 Essex St., Riverside, CA 92504-1599. Inquiries welcome at (714) 687-5910. Outside the USA, please send SASE for price quote to: Canadian International DX Club, Don Homan, 6815 12th Avenue, Edmonton, Alberta, CANADA T6K 3J6. Back copies of WRTH, 1981 through 1985, may be ordered at \$16 ea., 2/\$30, 3/\$39, 4/\$47, 5/\$54, mix or match years. California residents, please add 6% sales tax to ALL orders.



# Western DX Forum

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IRCA—Serving the Broadcast Band DX'er Since 1964

Editor: Ric Heald, 1632 J St., #4, Eureka, CA 95501

DEADLINES - WEEKLY ON TUESDAY

Effective 18 November 1985, New Address: 8539 Bellamy Way, Sacramento, CA  
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GARY LARSON, 2806 LINCOLN, BURBANK, CA 91504 (818) 845-1236

Hello. Had a good time at the 19 October 12th anniversary of SCADS in Huntington Beach. Several were there IRCAnS and a better turnout than last time. Good talks by Grant Manning of R. West; Panasonic products; a film and talk on HCJB; plus one on slow scan amateur TV by John Ruckert.

A Beverage DX'pedition had been planned for the same date at 29 Palms, but was re-scheduled to 25 October due to the SCADS GTG. I'll be out there the following day after helping local KPCC FM's fund raising drive.

While at SCADS, discovered local FM'er KHOF left the air around 17 October and now a new one is on with calls KKLA with a REL format. I'm wondering how the signing off of KHOF will affect the shared transmitter site with KIEV 870. (Why would it affect anything?-RtH.)

Called KTSJ 1220 a couple days ago and found out their transmitter site is at 3990 Riverside Drive in Chino, using three towers which aren't lit at night.

Too bad construction permit has been given for 830 kHz in Orange County. Kind of hope they can't find a transmitter site, hi. 73.

ALBERT S. LOBEL, P.O. BOX 26762, SAN DIEGO, CA 92126

Much has been said recently about computer programs being published in DXM and about what time zone we should use. I want to voice my opinions. Regarding computer programs, I feel they should be in DXM as long as they are in some way related to DX. If the program is a program on how to organize your DX logs, fine. On the other hand if it's a program on how to beat a Las Vegas slot machine then it shouldn't appear. I agree that not all of us have computers, but those of us who do would certainly benefit. I don't have a computer at this time but plan on getting one in the not too distant future.

As far as times in DXM are concerned, I feel that we should all stick to one time zone. Ever since I can remember all columns except DXWW have been in the Eastern time zone and DXWW has been GMT (now UTC). Personally I would like to see all columns in DXM in UTC. UTC is the universal time used by radio broadcasters around the world and it isn't changed with daylight savings time or standard time. (You do mean SW stations, don't you Albert? We don't use UTC at KRED-RtH.) A DX'er should know how to convert one time zone into another anyway. If he/she doesn't then perhaps that DX'er is not a true DX'er.

And speaking of DX, this DX'er has done very little lately due to a lack of time. Running your own business is a 25 hour eight day a week job. I've done more SW listening than MW DX lately only because I can do that while I'm doing my bookwork.

73 and good DX to all IRCAnS de ASL (Even if I don't get to do any DX'ing).

JIM HILLIKER, 1135 N. MAYFAIR AVE., #2, ANAHEIM, CA 92801

Hi everyone. Hope the new season's going well for you. Before I begin with what I've been up to, let me go to the past for a bit. Seems a forum I mailed to Ric never reached him or got lost. I mentioned last time a bit about how Laura and I have been doing since the wedding which was 14 July. The day had problems from the start. As Laura went to breakfast that morning with her dad and a friend, her wedding dress and other items were stolen from her car. Luckily, her dad got her to South Coast Plaza in Costa Mesa and found a suitable dress just in time. Otherwise, everything else went fine that day and married life is treating me well. (Jim, never did get that forum. Sorry to hear about the incident. She could have left her car unlocked here and nothing would have been touched-RtH.)

The SCADS GTG 19 October was great with IRCAnS there, eight that I can recall. Everyone had a great time talking DX. The satellite TV demonstration by Radio West was well done and the other guest speakers, including Greg Hardison from KABC were equally interesting. We made the Beverage DX'pedition to 29 Palms for the 26th of October so as not to conflict with SCADS. Unfortunately, I couldn't make it. I had to work, needed the money too much.

Some DX has been done lately with three new stations logged: KEIN 1310, KBUF 1030 and finally nabbed KRSV 1210. Got them at SRS, 0940 to 0953 ELT on 20 October, well on top with local spots and ID with C&W music. I didn't stand a chance getting them at night either, Ric. I also wonder who that TT'er is on 1210. (OK. We're 600 miles apart, so must be someone who's been granted a CP, most likely in the Pacific time zone, but who?-Rth.) I also found time to send out seven reports, one verie back so far from KXO 1230 along with a map, sticker and detailed station history.

One other item I forgot to mention last time. I've been hooked on a talk show on KOA Sunday mornings from 0200-0730 ELT, called the National Recovery Act, hosted by Larry Wilcox. It's sort of a nostalgia show with a lot of discussions on life in the '20, '30 and '40s. I find it very interesting as people reflect on their personal memories. One night in late July the topic was batteries, antennas, etc., and tuning for different stations. That motivated me to call in and tell the host of the show and the listeners what was on KOA in 1925 and 1926 as I read the KOA schedule from one of my old radio magazines of that era. The host found my call quite interesting, and callers after me were also saying how they enjoyed my call. To say the least, it was a fun night for me.

On another history topic, I sent a letter in to a column in our local paper, The Register, asking for information on some of the early radio stations in the area. Got a couple of calls, one from the Orange County Historical Society. Their next meeting on 14 November will deal with the history of radio in Orange County. The woman asked if I could bring some of my material for display. There's also going to be an antique radio display, so that should be quite interesting also.

I should know in a few weeks if I got the job I was after in Monterey County. I passed a preliminary test on 08 October and went for an interview 15 October. I felt I did well, but the county will notify me by mail if I got the job or not. Until next time, best of DX and 73.

NEIL J. WOLFISH, 31 SOUTHLAWN STROLL, WINNEPEG, MANITOBA R3J 5E9 CANADA

I move across one provincial boundary and suddenly find myself in the unfamiliar territory of CDXR and Western DX Forum! I'm attending the Faculty of Law at the University of Manitoba. I'll be back in Toronto when classes end in April.

In the month or so that I've lived here, I've logged a little over 200 stations. The locals here are on: 580, 630, 680, 810, 990, 1050 and 1290. Needless to say, it's a little easier to DX on the high end of the dial. The combination of CKRC on 630 and CJOB on 680 effectively kill any thoughts of DX between 610 and 690. On the other hand, the two CBC stations (CBW 940 and CKSB 1050) leave very little splatter. The other stations that pose a problem for DX are the semi-locals: CRY 920 Pontage La Prairie, CFAM 950 Altona, CHSM 1250 Steinbach and CISV 1530 Winkler, all of which splatter a bit. The farther away Manitobans (CKDM 730 Dauphin, CKLQ 880 and CKX 1150 Brandon and CJRB 1220 Boisserain) don't create any problem at all. I need to hear lin lon (590) and Thompson (610) to complete the province.

No need to get homesick in Winnipeg. All of my former locals have been heard several times here, with the exception of CTR and CKFY, both residents of Winnipeg frequencies. The easiest Ontario stations appear to be the three from Hamilton on 820, 900 and 1150; certainly a lot easier than closer stations such as those in Kenora, Dryden and Fort Francis. 73. (Welcome to the hallowed "blue pages" of WDXF, Neil. The NRC Pattern book shows 900 Hamilton basically NW/SE pattern and 1150 NW. Look forward to your forums as often as you have time-Rth.)

RIC HEALD, 1632 J ST., #4, EUREKA, CA 95501 Effective 18 November, New Address: 8539 Bellamy Way, Sacramento, CA 95828

I know, surprise, surprise! I love the North Coast, the redwoods, mountains, seashore, friendly natives, et al, but. . . that doesn't pay the rent, car payments and all related auto expenses, put food on my table, etc. It's a great place to live, but there's no jobs and the economy is getting worse locally with rumors of another big one to fall. I've been talking with travel agencies in the Sacto. area and they're talking 2-3 times the pay I'm getting at K-RED, so, goodbye Humboldt, hello capitol city.

With the impending move, I've gotten down to some serious DX, hi. I'm taking advantage of a RF-free zone while I can. It was worth it this morning alright. Heard ADC under KXL and decided to pursue it thinking I had WSB. Got a time check (PLT -2), a PSA, then nice clear ID from YL DJ; right you are, KFQD Anchorage. So checked 550, 590, 700, but nothing. Scanning past 650 when I heard C&W, so sat there a moment thinking WSM. Wrong. Yup, KYAK Anchorage. All this between 0715 and 0730 EST. Earlier, took a nice ID at 0700 from Midway Island 900!! 'Bout time I heard somethin' decent. Notice Murphy's Law kicking in? I'm leaving the area and the DX picks up, hi. Hets all over the place, little audio, what was heard was on 775 with a // on 756 OM/YL and BFL. I even heard XEW 900 for the first time since the

bif earthquake down there. And whoever that is on S91 with a non-typical Oriental language owned the frequency, not a peep out of WLS.

I find it somewhat amusing at the reaction to a satellite TV receiver, in that it's so commonplace in this area you take it for granted. With a designated Wilderness area all around us and on Highway 101 there is one spot where you're 50 miles between gas pumps, everybody out in the country has a dish next to their house or doublewide.

All ratings are in. KRED did VERY well with the adult audience, 25-54, any country music's targeted demographic. KPDJ? On to the next subject, hi.

New address in Sacramento is actually just outside city in the Florin Road area southeast of downtown. I've figured about eight miles to my closest, KSAC 1240 and about ten to 12 miles from 1320, 1380 and 1470. I'm not that far from KRAK, maybe 15 miles. Don't know about KHVY 1030. I do know KHVY doesn't put in toward the north or northwest, KTWO clobbers them here no matter what direction I point my antenna. Folsom is northwest of Sacramento, so my guess is that they're beaming southwest back into Sacto and in turn toward the Bay Area.

Until next week, best of DX to all and 73 de Rth. .

Report on Ric Heald's mini-DX'pedition  
 Midday bandscan (Noon to 1 PM PDT), Saturday, 19 October 1985, from Samoa Boat Ramp, North Jetty of Humboldt Bay, 3.5 miles SW of Eureka, California, 1/4 mile east of the Pacific. Equipment: FRG-7 and SM-2.

List in order: Frequency, Calls, Location, Mileage and Direction from Eureka (where "t" follows mileage, distance to transmitter)

Legend: L-Local, E-Excellent, VG-Very Good, G-Good, F-fair, P-Poor, VP-Very Poor, BA-Barely Audible

540	KVIP	CA, Redding	P 95	ESE	1090	KNCR	CA, Fortuna	SL 18	SSET
550	KOAC	OR, Corvallis	VP 275	NNE	1100	KFAX	CA, S. Fr'cisco	F 235	SET
	KAFY	CA, Bakersfield	VP 470	SE	1110	KCRX	CA, Roseville	P 225	SE
560	KSFO	CA, San Fr'cisco	P 225	SET	1120	KPNW	OR, Eugene	E 225	NNE
570	KCNO	CA, Alturas	F 190	ENE	1130	CKWX	BC, Vancouver	VP 570	NNE
580	KCMX	OR, Ashland	P 120	NE	1140	KRAK	CA, Sacramento	E 210	SE
	KMJ	CA, Fresno	BA 360	SE	1150	KAGO	OR, K. Falls	G 155	NE
590	KUCN	OR, Eugene	VP 225	NNE		KPLS	CA, Santa Rosa	VP 175	SET
600	KSXO	CA, Redding	G 95	ESE	1160	KSL	UT, Salt Lake	VP 630	E
610	KYJC	OR, Medford	G 125	NE	1170	KLOK	CA, San Jose	P 270	SE
	KPRC	CA, S. Fr'cisco	P 230	SET	1180	KERI	CA, Wasco	BA 440	SE
620	KWSD	CA, Mt. Shasta	F 100	ESE	1190	KEX	OR, Portland	F 325	NNE
	KGW	OR, Portland	VP 325	NNE	1220	KDFC	CA, S. Fr'cisco	P 250	SET
630	KBEY	OR, Coquille	VG 160	N	1230	KDAC	CA, Ft. Bragg	F 90	S
	KOH	NV, Reno	VP 245	SE		KPAK	CA, Redding	P 95	ESE
640	KFI	CA, L.A.	VP 560	SE	1240	KPOD	CA, Crescent City	SL 65	Nt
670	KBOI	ID, Boise	VP 440	ENE	1250	KLLK	CA, Willits	P 105	SSE
680	KNBR	CA, S. Fr'cisco	VP 240	SET	1260	KXLR	CA, S. Fr'cisco	P 226	SET
690	CBU	BC, Vancouver	P 570	NNE	1270	KAJO	OR, Grants Pass	G 120	NNE
700	KGRV	OR, Winston	VG 165	NNE	1290	KHSL	CA, Chico	G 140	ESE
710	KFIA	CA, Sacramento	F 205	SE	1300	KPMO	CA, Mendocino	F 100	S
	KIRO	WA, Seattle	VP 470	NNE		KHUG	OR, Medford	F 125	NE
730	KRVC	OR, Medford	F 125	NE	1310	KCRE	CA, Crescent City	SL 66	Nt
740	KCBS	CA, S. Fr'cisco	F 195	SET	1320	KEZL	CA, Sacramento	P 210	SE
750	KXL	OR, Portland	F 325	NNE	1340	KATA	CA, Arcata	L 8	NNE
790	KEKA	CA, Eureka	L 1	NNet	1360	KRGL	OR, Mrytle Crk.	VP 160	NNE
810	KGO	CA, S. Fr'cisco	G 245	SET	1370	KPCO	CA, Quincy	F 180	ESE
850	KTAC	WA, Tacoma	BA 440	NNE		KEEN	CA, San Jose	P 270	SE
860	KTRB	CA, Modesto	VP 270	SE	1380	KCEZ	CA, Sacramento	P 210	SE
880	KMPR	OR, Medford	F 125	NE	1400	KBGG	OR, Cave Jct.	F 95	NNE
910	KURY	OR, Brookings	SL 85	N		KQMS	CA, Redding	F 95	ESE
920	KOLO	NV, Reno	VP 245	SE	1410	KMYC	CA, Marysville	F 175	SE
930	KAGI	OR, Grants Pass	G 120	NNE	1420	KYNG	OR, Coos Bay	P 175	N
	KINL	CA, Paradise	VP 150	ESE	1440	KMED	OR, Medford	F 125	NE
940	KFRE	CA, Fresno	VP 360	SE		KVON	CA, Napa	VP 200	SET
950	KYES	OR, Roseburg	VP 170	NNE	1480	KRED	CA, Eureka	L 5	SW
960	KLAD	OR, K. Falls	P 155	NE	1510	KTIM	CA, S. Rafael	P 205	SE
980	KINS	CA, Eureka	L 1.5	NNet	1530	KFBK	CA, Sacramento	G 210	SE
1010	KIQI	CA, S. Fr'cisco	P 230	SET	1550	KKHI	CA, S. Fr'cisco	P 237	SET
1030	KHUY	CA, Folsom	VP 220	SE	1560	KIQS	CA, Willows	VP 140	SE
1050	KOFY	CA, S. Mateo	VP 240	SET	1570	KCVR	CA, Lodi	F 225	SE
1060	KPAY	CA, Chico	VG 140	ESE	1590	KLIV	CA, San Jose	F 270	SE
1070	KNX	CA, L.A.	VP 560	SE		KNPT	OR, Newport	VP 265	N
					1600	KUBA	CA, Yuba City	F 170	SE



## the irca technical column

Editor: Nick Hall-Patch  
1538 Amphion St.  
Victoria, B.C. V8R 4Z6  
Canada

--awhile back, we mentioned 365 pF variable capacitors available from Morning Distributors for \$1.49. Mark Connelly has investigated these further and found that their principal shortcoming is a short (about  $\frac{1}{2}$ " shaft, which requires a bit of ingenuity to make them useful. The mounting holes are untapped and on the front of the capacitor. Mark suggests enlarging the holes with a 6-32 tap, then using  $\frac{1}{4}$ " long 6-32 screws to mount the capacitor. A small knob such as the Radio Shack #274-415 must be used to avoid binding against the screw heads. Mark has written up complete details for using this capacitor in grounded rotor or floating configuration, if your inventiveness is not quite up to solving the problems in using this capacitor. I can provide details for a couple of US stamps.

From Dennis Kibbe comes the information that Antique Radio Supply, 1725 W. University, Tempe, AZ 85281 also has 365 variable capacitors at \$2.50 each, #12-400. They're single gang and also have a  $\frac{1}{2}$ " shaft, so may be the same as the above, with similar mounting problems.

\* \* \* \* \*

### A Better Filter for Modern Times

by Dennis Kibbe

Most modern communications receiver under \$1000 suffer from a poor quality ceramic filter in the AM wide position. The Murata CFW455HT is the most common filter used. Simply put, it is too wide a choice to separate stations in today's crowded bands. Using the AM narrow filter on my Kenwood R-600 (and similar models) results in muffled audio squeezed through a too narrow filter. The solution to this problem has been in the past to replace the wide filter with a larger ceramic or mechanical filter of better characteristics. Unfortunately, this often means mounting the filter above the printed circuit board on extenders to clear other components--something like a house on stilts. This degrades the performance of the new filter and may cause other problems. For example on the Kenwood R-2000 it interferes with the installation of the VHF converter. So, what to do? Luckily, Gerry Thomas has come to our rescue by offering a fine ceramic filter that is the same size as the stock filter. The model number is CFG455I and its specs are impressive for its size, 4 kHz at -6dB and 10 kHz at -60dB with a stopband attenuation of 70 dB. Contrast this with the CFW455HT 6 kHz at -6dB and 18 kHz at -50 dB and a stopband attenuation of only 35 dB.

Exchanging filters is not hard but due to the CFW's different pin pattern you will need to exercise some ingenuity to get it right. Here's how I proceeded with the operation on my R-600:

1. Remove powercord and top cover in that order!
2. Only one plug needs to be removed from the PC board to flip it over on its back. It's the long one at the front of the board behind the digital display.
3. Remove the brass screws holding the board to the chassis and the screws holding the antenna jacks to the rear panel.
4. Locate the filter on the left side of the board. It is black and marked CFW455HT. Flip the board over and desolder this filter (hint: shine a flashlight through the board from above to locate the right connections to unsolder.)
5. After removing the old filter I also removed R64 (with no ill effects so far) which gave me more room to work.
6. A hole needs to be drilled and lengthened for the ground tab on the CFG's case and new holes for the input and output leads are needed too.
7. Very short lengths of copper wire can connect the ground leads to the ground tab and to the copper trace on the board. And likewise the new in/out leads to the correct points on the PC board.
8. Put things back together and you're in business!

I also put in a better narrow filter but rarely use it for AM as the new wide filter works so well. The CFG455I is available from Gerry Thomas, 3635 Chastain Way, Pensacola, FL 32503. The price is \$19 (ppd)

Referring to Ben Peters' article in the Technical Column of DXM, Oct 6, 1984, you will see that he used a Martens loop antenna as his "middle loop", and this gave him good results, when surrounded by a cube formed by four tuned loops supported by the walls and ceiling. It appears that one should be rather careful about what sort of loops (both middle and wall loops) are used to obtain best results using this system. Assuming that one already has a loop antenna and will use it for the middle loop, some experimentation will be needed to determine the size of the four outside loops which surround the middle loop.

Start with the middle loop connected to the receive and its tuning capacitor set wide open (minimum capacity) or disconnected from the loop. The basic requirement for the system is that when one of the four outside loops is tuned to a certain frequency and placed parallel to the untuned middle loop it should be able to induce the same signal strength in the middle loop as the middle loop placed alone and tuned to the desired frequency can deliver to the receiver. Ben's experiments have shown that a good number of outside loop/middle loop configurations will work as long as the outside loop can be placed at a certain distance from the middle loop such that it can induce an equal signal strength into the middle loop as described above. This means that the system as seen from above may resemble figure 2 or figure 3 below rather than figure 1 which was described in the original article. However, best DX possibilities seem to be obtained when



figure 1



figure 2



figure 3

the outside loops are placed as far away as possible from the middle loop.

My own experience was that a large high Q loop antenna connected to the receiver via a pick-up link was unable to meet the above requirement, no matter what the size of the outside loop or its spacing from the middle loop. It seemed easier to meet the requirement if the loop was direct coupled to an FET amplifier, but it is not advisable that such a loop be used where there are strong stations, as induced signals from the outside loop(s) may overload the middle loop amplifier. A middle loop with link coupling was useable in the system if its Q was spoiled by the addition of a parallel resistance. I found that about a 22 kilohm resistor across my 3 foot loop reduced the Q sufficiently for it to be used with a system of four outside box loops 43" square, 3 turns and tuned by 2000 pf (!) variable capacitors (these were simply parallel wired 5-gang capacitors from Fair Radio Sales @\$5.95). The lower Q did not reduce the loop's signal pickup too badly.

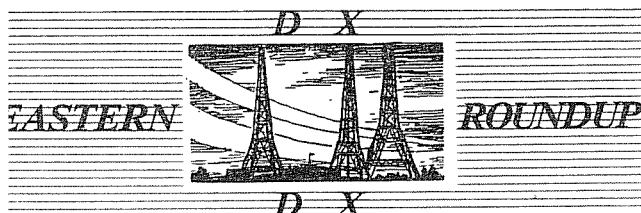
Nulls were fairly easy to obtain with my system, especially in situations where the middle loop was more nearly parallel with two sides of the square formed by the external loops, and were usually comparable to tilted loop nulls. Often using just two outside loops would give a decent null with the middle loop. Adjusting variable capacitors is easier than adjusting a loop tilt when chasing a varying null, but I haven't been able to track down the "night-effect free" null. Sometimes "useless" nulls were obtained, in which everything was nulled, leaving receiver noise only, apparently similar to the effect sometimes found with random wire phasing units. One point to note is that some form of vernier tuning is likely to be necessary on the four external loops, as the nulls can often be very sharp.

A few words here on the background for all this antenna experimentation of Ben's over the past few years. Here in the '80s, we don't often realize how much work was done with loop (and other) medium wave antenna systems previous to World War II. A great deal of this research was aimed at improving radio direction finding capabilities, a matter of great importance to both military and civilian bodies. As DXers, we know that the direction-finding capabilities of the simple loop antenna can be limited by poor antenna design, surrounding objects, and by skywave/groundwave cancellation effects in the received signal. As well, some skywave-only signals are transformed by their passage via the ionosphere to a form (we won't go into polarization here!) which the loop antenna cannot eliminate or evaluate. For a DXer, these anomalies are merely frustrating, but in search and rescue for example, they could have meant life or death.

Much research went into attempting to eliminate direction finding error due to polarization effects, and such work generally was based on the idea of combining signals from two or more antennas. Ben has been working a lot on the idea of combining two or more antenna signals to form a cloverleaf reception pattern rather than the standard figure-eight pattern of the ordinary loop antenna. The cloverleaf pattern has four nulls--two of these are similar to the single loop's nulls, that is, they suffer from polarization errors and varying nulls, and two are, theoretically at least, free from such errors. One of the best sources for information on some of these systems as well as a clear explanation of many aspects of wave propagation and antenna design, can be found in R. Keen's Wireless Direction Finding (Pub. Iliffe & Sons, Great Britain). You won't find it in your bookstore, as the fourth (and final?) edition is dated 1947, but it might be worth a search in your local library (ask about interlibrary loans if they don't have it) or used bookstore.

A number of bibliographies and abstracts of articles on antennas, direction finding etc. also exist, such as the Technical Reports, 1 and 5, of the Radio Direction Finding Research Group, Dept. of Electrical Engineering, University of Illinois, Urbana, IL (these date from the late '40s), and there is a monthly abstract of articles on electrical topics including antennas, "Electrical and Electronics Abstracts", which could perhaps be found at universities with electrical engineering schools.

(Many thanks to Ben Peters for all the above information, as well as for his efforts in passing on his findings)



Lots of interesting stuff from below  
The Mason-Dixon line this time...and some from The North, too!  
Isn't it about time we heard from YOU?

EDITOR: Karl J. Zuk • 154 Old Post Road North • Croton-on-Hudson, NY 10520  
Times are ELT

**REPORTERS IN THIS WEEK'S ISSUE:**

- (MH-NJ) Mike Harla, 1337 Norris Drive, Vineland, NJ 08360
  - (KVJ-GA) Karl V. Jeter, 2115 Scarbrough Road, Stone Mountain, GA 30088  
HQ-150, TRF, assorted Beverages, phasing unit.
  - (DLR-KY) David L. Reitz, 9332 Fairground Road, Fern Creek, KY 40291  
R-1000 and Radio West loop.
  - (KZ-NY) Karl J. Zuk, 154 Old Post Road North, Croton-on-Hudson, NY 10520  
GE Superadio
- \*\*\*\*\*
- 720 WMXY GA, Hogansville-La Grange. 10-5 1341 Noted with uncertain format, mentions of "The New WMXY" and "Georgia's most powerful urban-dance station." ID at 1400 with dual city mentions. (KVJ-GA)+9-19 1935 with black/soul type music, local spots, and ID with sign off announcements. (DLR-KY)
  - 720 WGR NC, Brevard. 9-19 1945 heard after WMXY, Hogansville-LaGrange, GA sign off with ID and sign off announcements, mention of 1000 watts, 97.9 cable FM, and to return at 715 am. New. (DLR-KY)
  - 910 WTXN AL, Lafayette. 10-5 1900-1903 with bluegrass music and sign off. (KVJ)
  - 1070 CBA NE, Moncton. This is one of the CBC MW outlets the CBC is thinking of cloning. May have happened already, when you read this. Hauser's RJB magazine has more details. (MH-NJ)
  - 1120 KMOX MO, St.Louis. I hear this regularly in the evening and through the night until sunrise. (MH-NJ)
  - 1160 WCCS PA, Homer City. 10-16 1755 with ad for P.K's lounge, featuring female mud wrestling. ID as "Stereo 1160, WCCS." Finally bagged this one. (KJZ-NY)
  - 1170 WBRW NJ, Bridgewater. 10-16 1130 with top 40 "Hits Plus Radio." AP news on the hour. YL DJ, and she was very Y. Changed city of license from Somerville to Bridgewater recently, but no luck on their CP. Now the call letters make some sense! (KZ-NY)
  - 1170 WDFB KY, Junction City. Heard daily with gospel and religious music, IDs, and local spots. (DLR-KY)
  - 1180 WSAF GA, Trion. 9-26 1920 with pop and C&W music, local spots, Georgia Radio news, singing IDs, more music, ID, and sign off announcements. (DLR-KY)
  - 1180 WFGN SC, Gaffney. 9-26 1925 Local spot, weather, ID and sign off announcements. (DLR-KY)

- 1200 WYCP KY, Radcliff. Heard daily with gospel-religious programs, IDs, should get out well on such a clear channel. (DLR-KY)(David, you had "WBCE, Wickliffe, KY." Who's right?-kz)
- 1350 WHWH NJ, Princeton. 10-18 1430 with ID "Stereo AM 1350 WHWH" by man, into news by woman. Very weak, in null of WNJK, Norwalk, CT. (KJZ-NY)
- 1380 WNAQ CT, Waterbury. This is WNVK, Naugatuck, CT's new designation, per Ernie Cooper's logging last week. They are in Kahn stereo and the technical QSL contact at the station is Jerry LeBow. (KJZ-NY)
- 1400 WOND NJ, Pleasantville. Re:John Demmitt's logging in 8-14 DXM, as of late September this station is still on this frequency. I wouldn't know if they had a CP or were making tests though. (MH-NJ)(It was 9-14 DXM, and John reported a tentative WOND on 830..I guess it wasn't WOND after all-kz)
- 1530 KXRO AR, Truman. 9-29 2013 over WCKY, Cincinnati, OH, with ID and sign off announcements. Address given: PO Box 149, Truman, AR 72422.(DLR-KY)
- 1540 WPGR PA, Philadelphia. 10-18 1445 with SID "WPGR Philadelphia" and ID "WPGR, Philly Gold Radio, with the REAL oldies." 50's and early 60's goldie moldies. Good signal all day long, sho-wop, bee-bop. (KZ-NY)
- 1530 KCMN CO, Colorado Springs. 9-29 2110 with WCKY, Cincinnati, OH nulled, big band type music, ID and sign off announcements. A real surprise here. (DLR-KY) (Congrats, David. Sorry it's out of order!-kz)
- 1550 KFLJ MO, Springfield. 9-29 2030 ID with sign off announcements, over KKJO, St. Joseph, MO. (DLR-KY)
- 1570 WOBS IN, New Albany. 9-26 2002 caught ID at end of sign off. (KVJ-GA)
- 1580 WPMP MS, Pascagoula-Moss Point. 9-30 2002 unidentified format, sign off at 2002 ending with drumroll and ID. (KVJ-GA)
- 1590 KYDE AR, Pine Bluff. 9-25 2028-2112 in and out with uncertain format, ID as "Radio 1590." (KVJ-GA)
- 1600 WOKB FL, Winter Garden. 9-28 2035-2104 In well with unclear format and slogan "Hotspot 16." Was in well over the usual WEUP, Huntsville, AL, WXVI, Montgomery AL, combo, which have similar formats. (KVJ-GA)
- 1600 WFIS SC, Fountain Inn. 10-2 0647 with local spots, ID and weather forecast. Poor with WSTL, Eminence, KY. (DLR-KY)

That's all folks! Please write in with your loggings! Thanks to Karl and David for saving us this week. Mike, I heard your name mentioned recently on the BBC's Waveguide. Thanks for all your info! Would you like the loggings in GMT/UTC, would you like to see member's pictures, do you want computer programs, or technical articles featured more? Let me and other Board members know!73kz  
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# CENTRAL DX ROUNDUP

Robert Kramer  
6416 N. Richmond  
Chicago, IL 60645

- UNIDED, SPECIAL, CHANGES, et. al.
- 720 WMXY CA HOGANSVILLE, 8/23 2010 good w/R&B mx, "Big X-WMXY" ID, lcl ads, WGN QRM at s/off, new stn. SDW-MS
  - 730 KSVN UT OGDEN, 9/29 2145 s/off, noted still using KSVN calls, "K-Seven Gold". JCJ-MT
  - 770 WJWL NC ROCKINGHAM, 9/1 0645 fair w/legal ID & power had at s/on, soon lost to WJHW, WABC, KOB QRM, ex-1500 SDW-MS
  - 870 WPRR TN COLONIAL HEIGHTS, 9/15 1925 way o/WJL w/rel. mx, lcl ad, new stn. SDW-MS
  - 890 WQIS MS LAUREL, 8/29 2020 R&B mx, "4-89" ID, legal ID o/u WIS, AN w/wx info on Hurricane Elena, ex-1260. SDW-MS
  - 1180 WFGN SC GAFFNEY, 9/20 1835 C&W mx, ID as "WFGN your radio station in Cherokee County", legal ID, ex-1570. SDW-MS
  - 1200 WKOX MA FRAMINGHAM, 10/27 1658 fair thru WJJD slop w/pop mx & ID. RK-IL
  - WACE VA LEBESBURG, 10/14 0635 rck mx, ID, ancmt of 24 hr, u/WOAI, ex-1290. SDW-MS
  - 1220 WTCN MS STILLWATER, 10/26 1926 good o/everything w/s/off, ex-WVLE. RK-IL
  - 1580 UNID 9/16 0035-0100 ET w/nonstop oldies mx, off at 0100, no ID. SDW-MS
- All da Rest
- 580 KFXD ID NAMPA, 9/16 0230 strong w/oldie rck. JCJ-MT
  - 760 CKQR BC CASTLEGAR, 10/11 0300 weak u/WJR w/nx, "4R 760" ID, old rck. JCJ-MT
  - 800 WHOS AL DECATUR, w/TC in tight CKLW null 10/14 0724. JJR-WI
  - 810 WEDO PA MCKEESPORT, w/0715 s/on o/WGY 10/17, no SSB. JJR-WI
  - KBHB SD STURGIS, strong 10/11 2015 s/off. JCJ-MT
  - 830 KUYO WY EVANSVILLE, 9/21 2110 ID, MDT TC, wx into rel. mx u/o WCCO, SDW-MS, 9/29 0700 w/christian mx, not as strong as KTWO-1030. JCJ-MT



840 KWPB NE WEST POINT, 10/26 1945 poor w/pop oldie & s/off. RK-IL  
 CHUR ON NORTH BAY, 10/27 1806 fair o/u WHAS w/oldie & ID. RK-IL  
 1030 KHWY CA FOISON, 10/6 1945 strong o/KTWO "Country Highway", fades w/KTWO. JGJ-MT  
 1070 CPAX BC VICTORIA, good briefly o/KNX 9/25 w/tlk, spot cluster 0415. JGJ-MT  
 KATQ MT FLENTYWOOD, 10/4 2115 good o/KNX during fade. Contest promo. JGJ-MT  
 1080 KRFX UT PRICE, 9/29 1000 good w/BBD mx. JGJ-MT JGJ-MT  
 1140 KRMZ WY GREYBULL, 10/4 2100 w/Satellite News Net., spots, promo for BYU football//  
 1150 KRZN CO ENGLEWOOD, 9/29 strong o/KSEN until power cut at 2115. JGJ-MT  
 1200 KPNW ND WEST FARGO, 10/11 strong until power cut 2030, Christian mx. JGJ-MT  
 1220 WPKN KY FRANKLIN, 10/21 1915 s/off w/ID, fair signal w/WCPH GRN. SDW-PS  
 1260 KDZU MN HUTCHINSON, 10/27 1827 fair w/promo. RK-IL  
 1310 KRMV MO BIRCH TREE, 10/19 1940 fair w/s/off no SSB. RK-IL  
 1340 KDEM CO DENVER, 10/3 0430 w/lcl nx, mixed w/10 others. JGJ-MT  
 KQIL CO GRAND JUNCTION, 10/3 0415 w/C&W mx. JGJ-MT  
 1400 KLBK MN ST. PAUL, 10/20 0138 good w/contest promo. RK-IL  
 WKBI PA ST. MARYS, 10/25 0159 1/2 fair-poor in mess w/s/off SSB. RK-IL  
 1420 WNTI IL MURPHYSBORO, w/SSB & s/on in mess poor sig. 0700 10/19. JJR-WI  
 1440 WNFJ WI GREEN BAY, 9/30 0220 ET w/legal ID 5kw pwr anct. SDW-MS  
 1460 KLCZ CA SALINAS, 10/7 0300 noted using new call, ex-KDON, rck mx. JGJ-MT  
 KENO NV LAS VEGAS, 10/7 0330 w/rck on top 1460. JGJ-MT  
 1470 WHUT IN ANDERSON, 10/11 1710 spot, "1470 WHUT" ID. TL-IN  
 1550 KQWB ND WEST FARGO, 9/28 2035 fair w/rck mx, ID as "1550 KQWB", some KQW/WOKJ  
 QRM, lost at 2045 power change. SDW-MS  
 1560 WHEZ HI PORTAGE, 10/11 1555, many WHEZ IDs, ex-WBWK, playing oldies. TL-IN  
 KKAJ SD ABERDEEN, 8/23 fair w/C&W mx, "KK Double A" ID, lcl ad. SDW-MS  
 1580 WPGC MD MORNINGSIDE, 10/14 0619 testing w/mx. TL-IN  
 1590 WTTT ND OCEAN CITY, 9/28 0210 mixing w/WAKR, lcl ad. ID. SDW-MS  
 1600 WAAM MI ANN ARBOR, 10/11 1629 PSA. TL-IN

A COUPLE I MISSED

540 WYIO WI JACKSON, 9/15 0700 good w/legal ID at s/on. SDW-MS  
 730 CHYR7 ON LEAMINGTON, 9/7 0420 rck mx, ID as "CHYR Radio 7 Canada" sports from CBS,  
 wx, fair w/XEX off. SDW-MS.


TWILIGHT TIME:

JGJ... John C. Johnson 501 5th St. West Billings, MT 59101-2831  
 (IC-R71-A, 50' N-S LW)  
 RK... Harmonica Red  
 (R-1000, Hk-129X, Radio West Loop, Kowalski Loop)  
 TL... Tom Laskowski 1334 E. Miner St. South Bend, IN 46617  
 JJR... John Rieger 1586 S. 82nd West Allis, WI 53214-4421  
 (IC-R70, RF-2900, Kowalski Loop, Radio West Loop)  
 SDW... S.D. Warren Rt. 3 Box 569 Nettleton, MS 38858  
 (NRD-515, Radio West Loop, "Eavesdropper" SW antenna)

CADZ XVI

Is Karl Forth a hippie? Did Mike Hogan ever wash his famous pair of Green Sox? Why do they call Robert Kramer Harmonica Red? And what do they call Mike Jezlorski? Find out by attending the 16th annual Chicago Area DXers annual holiday Get Together. The dates are Dec. 28- Jan. 2. There will be plenty of DXing done, including the annual Monday Morning session (which has produced some interesting loggings the last couple of years, including KOY-550 & KFVB-980) on Dec 30, along with DX gab, promo item trading & other goodies. For more info call host Robert Kramer at 312-262-6299. This is not just a local get together, it annually attracts people from all over the midwest. The location is 6416 N. Richmond in Chicago.

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**WIND  
 97**

Nancy Hardy  
2301 Pacific Avenue  
Aberdeen, WA 98520

# WESTERN DX ROUNDUP

All times are  
Eastern Local

Phone for hot WDXR tips! (206)532-8227 till 10pm(PLT)

DEADLINES: Tuesdays

REPORTERS FOR THIS ISSUE:

- (ND) Mike Deckman-908 N. Arrowhead Ave.-Rialto, CA 92376
- (TRH) Tim Hall-350 G St. F-1-Chula Vista, CA 92010  
ICF-2010, Radio West loop
- (NHP) Nick Hall-Patch-1538 Amphion St.-Victoria, BC V8R 4Z6  
Transmogriphied HRO, 3' box loop
- (BH) Bill Hardy-2301 Pacific Ave.-Aberdeen, WA 98520  
FRG-7, Radio West loop
- (NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA 98520  
FRG-7, Radio West loop
- (JH) Jim Hilliker-1135 Mayfair #2-Anaheim, CA 92801  
Kenwood R-1000, Radio West loop
- (EH) Ed Hoffman-P.O. Box 125-Burlington, WA 98233  
Icom R70 w/2' box loop, ICF-6500W w/Shotgun loop
- (BN) Bill Nittler-Box 824-Mancos, CO 81328  
HQ-180, LW
- (5P) Dale Park-2253 Kanealii Ave.-Honolulu, HI 96813  
Sony ICF-6700W  
(5P-HI1) DX'ing at Kailua, HI  
(5P-HI2) DX'ing at Waimanalo Beach Park
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2
- (JW) John Wilkins-4385 Hoyt St. #205-Wheat Ridge, CO 80033  
R-1000, 4' box loop

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OF SPECIAL INTEREST:

- 640 KYUK AK, Bethel per call to KYUK, has changed freq. from 580 to 640. Now 10000/10000 ND, Midnight s/off (Bethel time). (RW-CA)
- 970 KBBK ID, Rupert 10/21 1007-1010 finally heard this call change after months of trying, ex-KAYT. Wx report, clear "KBBK" ID at 1007, wx for Twin Falls & vicinity. "Ripply" fading u/KYTE/KHYV, briefly o/KHYV, then buried u/KHYV. (RW-CA)
- KZZU WA, Spokane 10/23 1917 "...on KZZU-AM" into Fleetwood Mac song, 1721 ad, 1921½ promo for "Zoo Crew album of the week," mx, 1729 ment. of "Zoo Crew window stickers." Good w/KYTE nulled. Ex-KLHT/KREM. (NH-WA)
- 990 KELS CA, Santa Barbara now on fulltime, 1000 day, 500 night, U3. Sked is 0900-0400. Heard about it via promo on KELS on trip thru Santa Barbara 10/14. Called stn & got the info. (JH-CA)
- 1090 KLSQ CO, Aurora using this call now as of early Oct., ex-KLSZ.(JW)  
+Per phone call, has changed calls to KLSQ, "soft adult Contemp" format. (RW-CA)
- 1380 KGLD MO, St. Louis 10/21 0428 rock oldies, ID as "K-Gold, St. Louis's only station for the classic hits of the 50's, 60's, and 70's." Fair at best, w/long fades. New, #719. Ex-KWK. (JW)
- \*\*\*\*\*
- 560 KPQ WA, Wenatchee (or lack of it to be more exact). Has something happened to the night pattern of this one? Since the summer, KSFO has been dominant at all times, often w/little or no sign of KPQ even w/KSFO nulled. KPQ used to own the channel most of the time at night. (NHP-BC)
- 570 KCNO CA, Alturas 10/20 2127 good w/C&W mx into s/off. KVI nulled.(EH)
- 580 KCMX OR, Ashland per call to "KWIN", their calls still KCMX, and the "laughed" when I asked them if they'd become KWIN! No plans to change calls right now. PT, I don't know what you heard! (RW)
- 600 KLZZ CA, San Diego 9/24 2130 "San Diego spells class KLZZ." (BN-CO)  
+10/25 2229 "...here on KLZZ" poor w/GJGR nulled. New. (NH-WA)
- KITX CO, Wellington 2250 ID on 10/18 as "600 Kicks" & continuing w/Poudre-Thornton H.S. football. (BN-CO)  
+10/21 0300 ID as "K-I-I-X, Wellington-Ft. Collins," then NBC mx. Apparently 24 hours now. (JW-CO)
- KSJB ND, Jamestown finally caught ID on this stn, weak in KLZZ null 10/23 0455-0520. C&W mx, YL DJ CDT TCs, IDs at 0457, 0520 "We are KSJB, your ... station." New, ND #2. (TRH-CA)
- 610 KRVV CO, Vail (ex-1360) noted on new freq. 10/2 0935 "Vail's music station is your music, 610 KRVV." (BN-CO)

620 KGW OR, Portland 10/11 0905 w/nx, o/KSTR w/good signal. (BN-CO)

640 KGVW MT, Belgrade 10/21 1030 strong in KFI null w/relig. program, ID, 10 min. after San Jose LSR. (RW-CA)

650 CISEL BC, Richmond 10/11 0900 nx in clear. (BN-CO)  
 CKOM SK, Saskatoon 9/8 0134 rock mx, SIDs, and spoken ID by man at 0140. In null of CISEL of course. (NHP-BC)  
 +2350 ID 10/15, no sign of WSM, but o/XETRT. (BN-CO)  
 +10/21 0744 good in CISEL null w/"See Comm" ID, rr mx. (EH-WA)

670 KDLG AK, Dillingham 10/21 0358 good w/nx, wx into s/off. KPUA nulled. (EH-WA)

(KBOI) ID, Boise 10/21 0246 totally off. (RW-CA)  
 KPUA HI, Hilo 10/21 0251 xlnt o/WMAQ w/ID, KBOI off. (RW-CA)  
 +10/21 0312 xlnt w/ads, "A-W 67" ID into MYL-type mx. KBOI off. (EH-WA)

680 (KNBR) CA, San Francisco 10/21 0410 totally off for 10 minutes, back on RS at 0420. Weak XELB alone on freq. thru XETRA slop. (RW)

690 KGGF KS, Coffeyville 10/21 0634 good in XETRA null w/KS wx forecast. (RW-CA)

720 WGN IL, Chicago 10/14 0659 talk show discussing Chicago Bears (WGN is their flagship per the Tribune). ID & spot for PNA Insurance, live ad for Ford City, more spots. New, IL #1! Poor, w/heavy ripply QRN. KDWN off. (5P-HI1)

730 KURL MT, Billings 10/26 2018 Christian Countdown U.S.A. Program ended 2026, anncr came on and said he had a few minutes left, so would give albums to the first five callers at "252-KURL." Fair w/CKLG nulled, to very poor at 2030 s/off. New, one of my most-wanted. (NH-WA)

KROY OR, Medford 10/25 0913 poor to fair w/wx, ID. Some KDWN-720 and KCBS-740 slop. Ex-KRVC. (JH-CA)

KSVN UT, Ogden still using these calls 10/15, ID as "K-7 Gold" playing oldies. (BN-CO)

750 WSB GA, Atlanta 10/21 0337 totally dominant way o/usual pest KAMA w/ID, no sign of CJWW, though. (RW-CA)

KXL OR, Portland strong w/nx 10/11 0915, frequent IDs. (BN-CO)  
 KAMA TX, El Paso "Radio Kama" 9/25 2115, abrupt disappearance 2125, abrupt power change. SS mx & ads, and a couple of LE ads. (BN)

760 CKQR BC, Castlegar 9/19 0110 "QR-760" mention between local nx and sports. Excellent signal unfortunately. I'll miss WJR. Also noted daytime, 10/7 1400 w/ID after non-descript pop mx. Poor to fair signal. (NHP-BC)

+10/18 0910-0920 numerous Castlegar ads and "GR 760" IDs. (BN)

770 KATL MT, Miles City 10/14 0734 very good w/nx, jingle ID, and rr mx. (EH-WA)

820 KNEP AK, Fairbanks 10/21 0653 good w/rr mx, TV, IDs. (EH-WA)  
 CHAM OR, Hamilton 10/17 0655 good o/WEAP w/ID, C&W mx into nx. (EH-WA)  
 +10/19 2314 community calendar, a spot, and "Cham Country" ment. Poor to very good w/country mx, often dominating WEAP! Not noted next night, though possible traces heard on 10/21. (NHP)  
 +10/28 0555-0616 o/u WEAP w/slight KGO-810 slop, long deep fades. Country mx, poor during 0600 nx, but very good during 0606 sports, 0610 ad mentioned Hamilton, 0612 wx "on 820 Cham," more C&W, another "Cham" mention 0616. (BH&NH-WA)

830 KAEN AK, Long Island-Big Lake 10/13 1013 briefly w/TC, & blip ID. (EH)  
 KBOA MO, Kennett per verie letter, using 10kw now, as of Sept. 27. Also went to AM stereo same day. (RW-CO)

KUYO WY, Evansville first noted 8/28 ESS "Gospel Radio for Central Wyoming." Heard regularly since at SCS & SRS. (BN-CO)  
 +9/16 0857 "Gospel Radio KUYO" ID then Mutual nx on hour. Fair signal; a frequent visitor since this logging. (NHP-BC)  
 +10/22 2030 fair w/clear s/off, full-data, ment. s/on of 0830, gave ID as "KUYO, Evansville-Casper." (JH-CA)

840 WHAS KY, Louisville 10/21 2223-2245 talk show w/suicide as topic. Fair signal w/slight interference. (MD-CA)

KWPN NE, West Point 9/25 0750 farm nx and "AM 840" IDs. Full ID on hour as "AM 840 KWPN West Point, Nebraska." (BN-CO)  
 +10/21 0842 good, alone w/ad for West Point Nat'l Bank, into rr. (RW-CA)

850 KOA CO, Denver 10/14 0724 farm program (commodity prices, etc). Fair w/unID rock station underneath. (5P-HI1)

880 KWIP OR, Dallas ads for Dallas area & ID jingle 10/11 0920. On top of freq. for surprise. Prompt v/l from Eric Norberg...Thanks! (BN-CO)

- 880 KJJR MT, Whitefish 10/20 0349 Music Country USA; 0359 local ads; 0400 AP News. Fair to good w/KRVN off. (ØW-CO)  
 WCBS NY, New York 10/20 popped thru at 0330 w/ID "When you can't read all about it, hear all about it on WCBS, NewsRadio 88." then into nx. (ØW-CO)  
 CKLQ ME, Brandon C&W mx, "Q Country" slogans. Fair to poor, mixing w/KJJR. 10/20 0343. (ØW-CO)
- 900 KGRB CA, West Covina 10/21 1014 good u/KBIF w/ID, big band mx.(RW)  
 KKAP TX, Floydada 10/22 2028 hrd simulcasting KKAP-FW 95.3. Rock mx, FM IDs on the half hour. Fulltime now? Heard past 2230. KK-FEBA. IDs as "The Voice of the Caprock." Very good signal, sounding more than 250 watts. (ØW-CO)  
 KSGA WA, Wenatchee 10/23 1946½ ID into oldies. Fair w/CJVI nulled. New, ex-KUEN. (EH-WA)
- 920 KOLO NV, Reno 10/25 2001 fair to good thru KHJ-930 slop w/PSA, local promo, ID, C&W mx. (JH-CA)
- 950 \*KJR\* WA, Seattle 10/21 0426 noted ET'ing w/OC. (EH-WA)  
 970 KOOK MT, Billings per call to KOOK, will change calls to KEIT on 11/4, format will remain C&W. (RW-CA)
- 980? \*KINS\*? CA, Eureka week TT heard u/KFWE MK 10/21 0325-0410, looping north. ID by OM at 0327 garbled, but sounded like "KRRO." Anybody else ID this? (TRH-CA)  
 KVLV NV, Fallon 10/25 2104 poor u/KFWE, out of UPI nx, ID, local nx. (JH-CA)  
 CKNW BC, New Westminster 10/14 0458 closing minutes of "Sports Show-BC" w/two guests from the Canadian Football League; Shell contest ad. New. Poor, some KHVH-990 QRM, QRN. (5P-HI2)
- 990 KKIS CA, Pittsburg 10/25 2100 poor to fair w/ID, local nx, KFWE-980 slop. Still looking for much-wanted KTLE. (JH-CA)
- 1010 KCHJ CA, Delano 10/22 2050 strong through KTHQ-1020 slop. May have had a format change from C&W to MOR, asking for letters on how listeners like the mx. Same type mx heard 10/23. (JH-CA)  
 ?CFRB? ON, Toronto 10/28 0640 tuned to hear EST time check, Dodge Trucks ad mentioning warranty in kilometres, pop mx, but quickly faded. This around Toronto sunrise, possibly them on day power. (EH&NH-WA)
- 1030 KTWO WY, Casper 10/14 0704 CBS nx, Stylistics mx, man w/ID and Casper wx, spot for Barry Manilow concert at the Casper Special Events Center, spot for Buffalo steaks, into wx. Poor, heavy QRM and QRN from KLHT-1040. (5P-HI1)
- 1040 WHO IA, Des Moines 10/23 2136-2210 talk show. PSA for farm safety. Fair signal w/moderate fading. (MD-CA)
- 1060 \*KPAY\* CA, Chico 10/21 0254 noted w/TT. (RW-CA)  
 1080 KSCC CA, Santa Cruz 10/22 2110 in wall through KNX-1070 slop. TC, ID, ment. Santa Cruz, MOR mx. (JH-CA)
- 1090 ?CHEC? AE, Lethbridge 10/14 0513 Glenn Frey's "I Found Somebody to Love," faded into Hollies "The Air that I Breathe." TC of "3:18" and ID "10-90 Hick," into Frank Stallone's "Far From Over," TC of "3:22" & hockey scores, Kool & The Gang mx. New. KING probably underneath w/ripply het, heavy local QRM. Fair to very poor. (5P-HI2) (Could your "10-90 Hick" ID be "10-90 Check"?-NH)
- 1160 KSL UT, Salt Lake City 10/14 0558 local nx & sports, ID & CBS nx, into ID and MOR mx. Fair w/deep fades. (5P-HI1)
- 1180 WHAM NY, Rochester 10/13 0507 noted in passing w/wx & ID. (EH-WA)  
 1210 KQTL AZ, Sahuarita 10/19 2024 SS-lang. stn. Discussion of beisbol, then into live World Series coverage in SS. Pretty fair sig at times in RGVN null, but mixing w/KCLG. Slogan is "Radio Que Tal." New, AZ #41. (ØW-CO)
- KRSV WY, Afton 9/12 0115 "KRSV Star Country USA" & "We're proud to be part of the Beautiful Star Valley." (BN-CO)  
 +10/20 0940-0953 in fairly strong, fighting KPZE-1190 slop. Thought I had KCLG, till I heard ment. of Afton. Woman did spots for local 7-11 store, Radio Shack "on Afton's Main St," C&W mx, then later spots for a Wyoming hunting lodge and promo for KRSV's nx & farm reports. ID "What better way to start your day, KRSV, Afton." into C&W mx. New, WY #7. (JH-CA)
- 1230 KEFR CO, Steamboat Springs 10/14 1135 on top of freq. for a real surprise. Steamboat nx & frequent IDs. (BN-CO)
- 1250 KNCO CA, Grass Valley per call to KRRO, will be changing freq. to 830 kHz "sometime around Nov. 1." (RW-CA)  
 KHOT CA, Madera 10/22 full-data s/off in SS o/KTWS, then quick ID in EE "KHOT, Madera-Fresno." Off, no SSB. Was looking for KLLK. (JH-CA)

- 1250 KLLK CA, Willits 10/25 2124 good atop w/"Shop At Home" message from "1250, K-L-L-K." YL DJ announced upcoming mx, mostly rock heavies, another ID, into rock mx. (EH&NH-WA)
- WRFR KS, Topeka 10/2 0330 very good signal on top of KTMS w/very little fading, many IDs, ment. U. of Kansas game, pop mx. (JH)
- KNEU UT, Roosevelt 10/25 1009 in well, burying KTMS, local ad, ID, C&W mx. (JH-CA)
- 1260 ?KGIL? CA, San Fernando 10/14 0524 "Talknet" w/Bernard Meltzer. KGIL recently began carrying the service so this is tentative. New. Poor w/unID underneath. (5P-HI2)
- 1280 KQAK OR, Eugene 10/22 2140 atop in KIT null ending "Love Boat" theme by male vocalist, "K-Q-A-K 1280," PSA on drunk driving from Eugene Broadcasters, then old song "Chanson d'Amour." Ex-KYMN/KEDF. (EH&NH-WA)
- 1300 KLER ID, Orofino 10/13 1042 fair in KPMS null w/nx, wx, and ID into rr mx. (EH-WA)
- +10/22 2149 a much-wanted surprise. Country mx loud & alone, thought it was KPMS, but KLER ID'd! Then Orofino ads (KPMS mixing now), Sinatra record, another nice ID 2153, more C&W, format seems to be a blend. New, never logged on 950 (except from Pullman during college, hi). (EH-WA)
- \*KPMS\* WA, Seattle 10/21 0513 noted ET'ing w/TP, G. (EH-WA)
- CJMF SK, Regina 10/21 0618 weak w/KRUG w/rock songs, ID. (EH-WA)
- 1310 KDIA CA, Oakland 10/15 0330 noted back on air w/old soul format, ID'ing again as "The Boss of the Bay" & "AK 1310." NSP apparently editorials also noted about "we'll never let KDIA go off the air again" by the pres./GM. Signal easily nullable. (RW-CA)
- KTKR CA, Taft 10/20 1000 poor to fair w/SSB, s/on. (JH-CA)
- 1340 KKEK NE, Aztec 10/23 0300 clear legal ID, very strong, C&W mx, female DJ then gave ID as "KEK." Not heard in awhile. (JH)
- 1350 KSR0 CA, Santa Rosa 10/14 0521 noted in passing w/Olivia's "I Honestly Love You." Poor w/two unIDs underneath. (5P-HI2)
- 1370 KWRM CA, Corona 10/21 0324 MYL-type fare, ID as "K-W-R-M, Corona-Riverside." Fair in QRM. New, CA #38. (RW-CO)
- KYTL MT, Butte 10/21 0405 ID heard thru QRM. Ex-KCEZ. First time heard w/new call. Fair/poor. (RW-CO)
- CFOK AB, Westlock 10/21 0318 pgm note for "Trading Post," then into C&W. "1370 Country" slogans. Poor in QRM. New, AB #14. (RW-CO)
- 1380 KSRV OR, Ontario 10/9 Crystal Gale record & ID 2300 o/KSWO/KTSM. 10/8 w/Portland Trailblazers basketball, but no ID heard. (EH)
- 1410 KRML CA, Carmel 10/25 1000 above briefly w/modern jazz, legal ID into local nx, ment. Monterey Peninsula. Haven't heard in nearly 2 years. (JH-CA)
- KLLB CA, Lompoc 10/25 1037 in well in KCAL null w/local nx, ad for business in Eueliton, "Country Club 14" ID. (JH-CA)
- CFUN BC, Vancouver 10/14 0653 Sheena Easton, Bread, and 10cc MOR mx. ID as "14 C-Fun" and TC; Diana Ross mx. Poor, w/a Talknet stn rippling underneath. New, BC #8. (5P-HI1)
- 1450 KONE NY, Reno 10/22 0200 on top w/ID, into nx. After a brief absence, seems to be coming back as a pest again. (JH-CA)
- 1480 KCGX MT, Sidney 10/21 0708 good w/wx for ND & MT, C&W mx. (EH-WA)
- 1500 KSTP MN, St. Paul-Minneapolis 10/24 2115-2140 Talknet. Promo for 2 for 1 at the Minneapolis Planetarium. Deep fading lasting for a couple minutes at a time. (WD-CA)
- CKAY BC, Duncan 10/25 0830 great signal w/s/on, ID, into TC, nx and wx. (JH-CA)
- 1510 \*KGA\* WA, Spokane 10/7 0311 noted w/OC. (EH-WA)
- 1520 KOMA OK, Oklahoma City as of 10/18 now playing MYL type mx. (BN-CO)
- +10/23 0330 seems to have changed format to MOR-MYL type mx, ex-rock, ex-C&W. Ment. nostalgia of the last 40 years. (JH-CA)
- 1570 CHUB BC, Nanaimo 10/25 0833 end of local nx, ID, poor to fair mixing w/unID signal. (JH-CA)
- 1590 (KLIY) CA, San Jose 10/21 0308 totally off, back on RS at 0600. Seems to alternate ME's AM/SP, which is fine with me! (RW-CA)

UNIDS:

- 1060 10/21 0913 SS fading o/KUKQ w/KPAY nulled. Seems too late for ZEEP. I wonder if SS is the format of KPNA-1060 El Paso, which was the replacement for KAMA on this freq. (KAMA moved to 750). Will call to find out. (RW-CA)
- 1270 10/25 2135 end of "Thru the Bible" relig. program, no ID, into mx. Mixing w/KRAZ, KPLY, KCOK. Who runs that program 2100-2130 approx? (EH-WA)

- 1340 10/21 0306 unID fading up w/"The Best of King" then gone, back up at 0642 recheck, always faded out on hour for ID @\*%#? Loop apparently ME/SW. KHFA? MH, does new IRCA Almanac list any other 1340 stations in the west w/Larry King? (RW-GA) (Just KKKI Anacortes, WA.--MH)
- 1370 10/23 0300-0309 TT in KWRM null, off at 0309. No ID heard. (JH-GA)
- 1390 Weak C&W in briefly u/KGER, KGEY 10/23 0352. (TRN-GA)
- 1450 unID SS stn 10/20 2219. Latin American ballads. Looped SE/PW. Poor, only occas. heard thru QRM. No way to tell if US or Mexican. (JW-CO)
- 1580 A coupla unID's floating around in KNIX null, good cx to east. One stn had a continuous TT for a good solid hour+, another fading up on peaks w/unID talk, perhaps network talk show, but too weak to ID. TT poss. CBJ, I think they leave their TT on all night (but do they s/on at 0500, TT still on past 0500?). Don't think KZZZ is talk, perhaps either KRZI or WEAK (ex-WIZY), or even the Coral Gables stn. Other ideas? Definitely EE. (RW-GA) (Could also be a former daytimer; almost all 1580's have low-power fulltime authority now.--MH)

I hope everyone has been DX'ing. Conditions have been quite good here. Send your reports! ☺

**TOP  
END**



A monthly column of loggings, discussions & information for the 1600 - 1800 kHz range. Deadline: The last Saturday of the month All times are GMT

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

November 1985...Loggings:

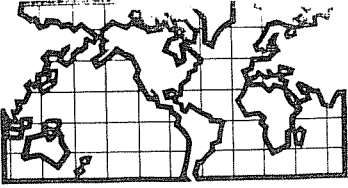
- 1610 NEW HAMPSHIRE Lincoln/Cannon Mt. (no time/date) TIS WMCF-?? w/ traffic info on road construction on Rt. 93. (Kemp)
- 1610 WASHINGTON Port Angeles 1218 8/20 Fair w/ ferry info. 2 more under.
- 1615 NEW ZEALAND Ohura 1340 10/13 OR (Thew) (Moman)
- same- 2115 10/1 OR fair. (Taylor)
- same- 1219 8/20 OR poor. (Moman)
- same- 0820 9/29 OR good. (Peterson)
- 1620h CALIFORNIA San Francisco 1115 8/29 KGO harmonic good. (Moman)
- 1620 AUSTRALIA Brisbane 0802-15 9/29 4RPH blasting in w/ a "3 min past 6" TC (1 min fast!) and wx for Brisbane, female annrc. (Peterson)
- 1620 AUSTRALIA Hobart 0802-15 9/29 Fair u/ 4RPH ments Hobart. (Peterson)
- 1620t AUSTRALIA Canberra 0802-15 9/29 1RPH probably the source of the SAH on 4RPH and 7RPH. (Peterson)
- 1623 PAPUA NEW GUINEA Gurney 1025 9/29 GWY weak. (Peterson)
- 1629 AUSTRALIA Sydney/Melbourne 1005 9/29 2RPH/3RPH fair and mixing at about equal strength. (Peterson)
- 1635 ??? The following calls heard between 0400-1100 on 10/3 to 10/6. Not noted past 1200. Appeared to be two or three groups of sequential. Normally two were running at the same time. Definitely east of Hawaii. Oil rigs, or new calls for the NWT outlets?? FM775, G35, R321, RHM, J372, V074, K280, and T288. (Taylor)
- 1653 OREGON Nehalem Bay (all day) 8/20-21 Steady 600 Hz tones, also audible at +/-10 and 20 KHz etc. Very loud. Found 40' vertical antenna, shed, and propane fueled generator on the dunes in the campsite. 20+ S9 signal @ 1/4 mile distance. (Moman) Find out who owned it?? ed.
- 1675 PAPUA NEW GUINEA Tsili Tsili 1342 10/3 TSL (Thew)
- 1685 COLOMBIA Mercaderes 0843 8/20 MER fair. (Moman)
- same- 1010 9/29 MER fair (Peterson)
- 1689 PAPUA NEW GUINEA Mt. Hagen 1012 9/29 MH Fair-good. (Peterson)
- 1692 PAPUA NEW GUINEA Kiunga 1015 9/29 KIU weak. (Peterson)
- 1692 AUSTRALIA?? 0844 8/20 DU type audio. VL2UV?? poor. (Moman)
- 1702 ??? 0845 8/20 Unid oriental talk, not UTE. JJ? Poor. Also noted 1223 9/3 in USB, poor. (Moman)

Credits:

Howard Kemp	Laconia, NH	Radio, Antenna
Art Peterson	Ano Nuevo Pt., CA	FRG-7, 1200' beverage
Don Moman	On-the-road in the Northwest	R71, AN-1 antenna
Pete Taylor	Poipu Beach, Kauai, Hawaii	ICF 2001
Eric Thew	Ballajura, W. Australia	DX-400, whip and finger

And thanks to Gardner Smith for forwarding some info.

A better column this time... Keep it up!



# DX WORLDWIDE - WEST

Pat Martin - Editor

P.O. Box 843, Seaside, Oregon 97138

PHONE: (503) 861-3185

## DX REPORTS FROM HAWAII

- 540 MEXICO, San Luis Potosi, S.L.P. XEWA 9/17 1315 PSA for Departamento del Distrito Federal, ID as "EsW", relay XEW. Again 9/23 s/on "Un nuevo dia con XEW" Into "XEW informa". Does this ever carry local SLP programming? (REW-Hi)
- 570 MEXICO, Oaxaca-XEDA-9/23 1200 s/on "XEDA Radio Oaxaca con todos los exitos. Radio Oaxaca XEDA ya con Ud." Into nortenas. (REW-Hi)  
CUBA, Santa Clara-CMEA-9/23 1105 clock ticks and "RRR" in Morse Code rx o/u KLAC. (REW-Hi)
- 630 CUBA, Camaguey-CMHA-9/20 1100 "Foro de la prensa latina" on financial crisis. Excellent. (REW-Hi)
- 730 MEXICO, Mexico City-XEX-9/20 this station provided the best coverage of the earthquake and was off very little. 0640 speech on emergency services, roadblocks, drinking water, phone numbers, 0700 rx from XEB 9/21 0550 appeared to be off, unheard 9/22 0550 back to partially normal programming Mexican super hits. (REW-Hi)  
COSTA RICA, San Jose-TIHB 9/20 1100 time ticks, tcs male and female voices alternating in the clear XEX off (REW-Hi)
- 735 ECUADOR, Quito-Radio Melodia HCGC1 9/26 1235 "Buenos dias Quito" show greeting listeners folksy style, 1243 ID "Estan en la sintonia de R. Melodia" Mostly Mexican mx including rancheras. Good. Cf. Steve Mittma catch of a different Radio Melodia HJCU Bogota on 730. Quito is def. on 735! (REW-Hi)
- 747 NAMIBIA, Gobabis-Radio Herero 10/16 0405 Herero rx by man. Fair, my first relog since June. (REW-Hi)
- 750 ALASKA, Anchorage-KFGD-ID as Stereo 750 AM, latest hrd here w/tc(2 hours later than Hawaii) w/pop mx, flower shop ad, deep fades at 1553 on 10/21 (CB-Hi)
- 790 MEXICO, Mexico City-Radio Ranchito XERC 10/23 1200 s/on, national anthem vocal, 4 verses, 1203 ranchera mx intro, 1205 tc into Mexican Country rock. Dominant. Mew (REW-Hi)
- 800 MEXICO, Cd. Juarez-XEROK 9/23 1100 ad for EE lessons, 1350 ad for "Forgettel" hear restoring tablets. No mention of earthquake, unchange pgm. (REW-Hi)
- 825 ST. KITTS, Basseterre, Radio Paradise 10/16 0352 "8 and a half minutes before 12 o'clock on Radio Paradise, telling you about the Lord Jesus Christ, West Indian accent into organ mx. Quite good New Country (REW)
- 844 PERU, Tacna-Radio Nacional OAXGD-9/17 1100 s/on, into relay of AM rx from Radio Nacional Lima. TCs, mx. //854 Lima. WRTM lists as 834 variable, also lists as 830, but gives nominal as 1120. Good (REW)
- 895 COLOMBIA, Santa Marta-HJPM- Radio Galeon, local commercials and ID at 0805 10/12. (CB-Hi)
- 900 MEXICO, Mexico City-XEW-9/20 report on traffic problems due to earthquake 0630 good o/u KHUI 9/22 0515 reg. commercials, auto engine filter ad. 9/23 1050 emergency PSA. (REW-Hi)
- 930 COSTA RICA, San Jose-TI.. 1059 local ID "Radio Costa Rica pasa a retransmitir el programa Buenos Dias America desde La Voz de los Estados Unidos en Washington. 1100 into off air VOA relay. Vy good (REW)
- 950 MEXICO, Tijuana-XEGM (Not XEBG-PM), 9/23 1210 normal programming, Romantic vocals, no mention of earthquake. (REW-Hi)
- 954 JAPAN, Tokyo-JOKR-Man and woman talking in JJ, Drama show at 0930 on 10/17 (CB-Hi)
- 1050 MEXICO, Monterrey, N.L. XEG 9/20 "divierten con alegria" having fun and no mention of earthquake. (REW-Hi)
- 1060 MEXICO, Mexico City-Radio Educacion XEAP 9/22 messages in FF and later EE, instructions to tourists and foreign residents. 9/23 1050 similar emergency rx to XEW. (REW-Hi)
- 1090 MEXICO, Rosarito, B.C. XEPRS 9/20 undisturbed by quake, ads (REW)
- 1116 U.S.S.R., FE unknown 10/9 1100 Mayak IS, time pips, into RR, but then drowned out by s/on of Radio Beijing RR Service. (REW-Hi)
- 1134 INDIA, Calcutta-10/18 1615 classical Indian rags (mx style) o/u JOOR (REW-Hi)
- 1143 JAPAN, Kyoto -JOBR 10/18 at 1620 joking male/female DJs, EE jingle "All Night Hit Songs" ad for disco, good. (REW-Hi)  
PHILIPPINES, Poro-VOA Clear EE ID at 1600 then into another lang. at 1600 on 10/17 (CB-Hi)

- 1180 CHILE, Santiago-Radio Portales CB118 9/20 running AN, unusual. Ad for "Old Spice" Gold. (REW-Hi)
- 1188 YEMEN, Aden-9/28 1545 AA Political talk, pro soviet,into AA mx (REW)
- 1206 P.R. CHINA, Radio Beijing Pop CC mx,woman ancr at 0918 10/7 (CB-Hi)
- 1220 CUBA, Guantanamo-Radio Reloj CMMD 0342 ID, tc in EST, romantic mx (unusual for Radio Reloj, I thought it was all nx). Dominant over XEB/CKDA. (REW-Hi)
- MEXICO, Mexico City-XEB Second best coverage of earthquake after XEX 9/20 0650 speech by mayor on major casualties, stated that tomorrow he would order the closure of movie houses, night clubs and furniture stores the latter presumably to prevent blockage of streets by furniture vans also from looting of furniture. Good (REW-Hi)
- 1251 U.S.S.R., Vladivostok-10/1 1020 Radio Moscow JJ Service, Slow RR Lesson. (REW-Hi)
- 1260 BRAZIL, Sao Paulo-Radio Mulher ZYK688 10/16 0400 Catholic pgm "A voz do Santo Pao" Popes voice,good (REW-Hi)
- 1296 P.R. CHINA, FS of Radio Beijing 10/15 1600 s/on Vietnamese ID nx good. (REW-Hi)
- 1314 P.R. CHINA, Radio Beijing FS 10/8 1000 RR s/on // 1116 good (REW-Hi)
- AUSTRALIA, Wollongong-2WL w/2WL ID, pop mx at 1547 10/17 (CB-Hi)
- 1320 MEXICO, Mazatlan,Sin. La Ranchera de Mazatlan XERJ 9/23 1210 phone-in requests MST tc, good. (REW-Hi)
- 1341 NEW ZEALAND, Nelson-2ZN-Non-stop light rr,finally gave tc at 1525 on 10/13 (CB-Hi)
- 1350 JAPAN, Hiroshima-JOER-Woman ancr w/ID with chimes,mellow sounding JJ mx, quite alone w/some static at 1518 10/13 (CB-Hi)
- 1360 BRAZIL, Rio de Janeiro-Radio Bandeirantes-ZYJ464 10/16 0345 PP preacher dominant (REW-Hi)
- 1386 AUSTRALIA, Adelaide-5AA-10/13 1555 Italian soccer scores, relay RAI Radiodue Domenica Sunday Sport, s/off in Aussie accented Italian quick EE ID "Radio 5AA" into Serbo-Croatian,good (REW-Hi) (Richard, are you sure this was all 5AA, it sounded like you might have had some 2EA in there as they are ethnic and broadcasts in Eastern European languages near that time.PM)
- 1413 OMAN, Masirah Island, BBC relay 10/15 1605 Urdu nx by female //SW good, first reception of the season (REW-Hi)
- 1458 U.S.S.R., East Siberia 10/15 1600 Mayak 15, RR ID good (REW-Hi)
- 1467 THAILAND, Bangkok-10/16 1600 Thai ID by female into Thai nx (REW-Hi)
- 1481 UNITED ARAB EMIRATES, Dubai-Loud w/AA mx announcements 10/9 at 1615 (CB-Hi)
- 1530 MEXICO, Mexico City-XEUR-Radio Onda Surprised to hear this one dominant the frequency w/good music and a strong signal for a few minutes "Radio Onda" IDs at 1025 on 10/14 (CB-Hi)
- 1560 VENEZUELA, Puerto LaCruz Radio Mar YV.. 10/1 1000 National Anthem choral version 1001 s/on into cumbias (REW-Hi)
- 1562 PERU,Trujillo Radio Primavera OAX2X 10/1 s/on "Buenos dias Peru, buenos dias Trujillo 1005 "Radio Primavera inicia su programa del dia primero de octubre. 1006 into "La Hora Agraria" with good advice to farmers on increasing milk yield, feeding cattle, tips from local professor, folk instruments. Booming signal. Nominal 1560 and I don't think this one has been reported before. (REW-Hi)
- 1566 TUNISIA, Sfax-10/15 0430 AA Tunis ID, into Muslim call to prayer. Quite good. First European/North Africa n catch of the season (REW)
- REPUBLIC OF KOREA, Cheju-HLAZ 9/28 1600 ID into GC rel. o/u AA and jammer (REW-Hi)
- TUNISIA, Sfax-Wailing chants, Call to Prayers at 0440 10/14. Was REW who called me to tune in. (CB-Hi)
- 1570 MEXICO, Cd. Acuna,Coah. XERF 10/22 0555 usual U.S. religion,no mention of earthquake. (REW-Hi)
- 1580 MEXICO, Hermosillo-XEDM 9/20 0635 Mexican vocals, again no mention of earthquake. (REW-Hi)

VERIFICATIONS:

- 715 ECUADOR, Portoviejo-La Voz de Portoviejo-HCGB4, Pleasant partial data letter on plain paper from El Profesor Arismendi, whose astology and personal advice program I heard. Enclosed 2 postcards. Said he earlier sent me a letter enclosing a pennant which I had not received. (REW-Hi)
- 1175 PANAMA, Santiago, Veraguas-Radio Belen HO.. Specific lengthy letter from Alexis Atencio Gutierrez, Director. Address not in WRTH- is Avenue Central entre Calle 5y9. Said the station is 2 years old in December and my report was the first from anywhere outside Panama. He was very frank about his operation on 1175 rather than the gov. assigned 1180, less ORM. Enclosed a calling card (showed 1180 freq) I have to discard my previous impression as Panama as a poor verifier altho Radio Nacional has yet to verify. (REW-Hi)



TRANS-PACIFIC DX ROUNDUP

531 AUSTRALIA, Kempsey-2MC-fair w/pops at 1031 on 10/27. (PM-Or)  
 540 AUSTRALIA, Longreach-4QL-fair w/ABC Pop mx program at 1130  
 on 10/27; All alone on freq. (PH-Or)  
 830 ALASKA, Big Lake-KABH-vy good with Folk music at 1307-1321  
 with ID at 1321 on 10/20. (BB-Or)

THANKS TO THESE REPORTERS:

BB-OR BILL BLOCK-9307 Southeast Clay Street-Portland, Or. 97216  
 R-390A, Radio West Loop  
 CB-HI CHUCK BOEHMKE -Post Office B-x 488-Kaau, Hawaii 96749  
 REW-HI RICHARD WOOD-Post Office Box 5074-Hilo, Hawaii 96720  
 R-71A, R-1000, 4 Beverages  
 PM-OR YER EDITOR  
 SP-600, R80-2, 2-1500'East Beverages, 1-700'HHW Mini Beverage  
 1-200' HE Longwire, Ground System

SUMMARY OF STATIONS REPORTED IN "DX MONITOR" BY IRCA, SINCE VOLUME #12  
 (beginning in September 1974). Prior indicates station not reported by  
 a member since Volume #12.

<u>COUNTRY</u>	<u>V22</u>	<u>V21</u>	<u>V20</u>	<u>V19</u>	<u>V18</u>	<u>V17</u>	<u>V16</u>	<u>V15</u>	<u>V14</u>	<u>V13</u>	<u>V12</u>	<u>Prior</u>	<u>TOTAL</u>
CANADA	---	---	---	---	---	---	249	47	18	6	6	62==	388
U.S.A.	---	---	---	---	---	---	2561	557	253	169	253	694==	4487
TOTAL	---	---	---	---	---	---	2810	604	271	175	259	756==	4875
PCT. %	---	---	---	---	---	---	57.6	12.4	5.6	3.6	5.3	15.5==	100.0%
-----													
CANADA	---	---	---	---	---	276	34	18	9	1	2	56=	396
U.S.A.	---	---	---	---	---	2415	822	297	154	113	169	567=	4537
TOTAL	---	---	---	---	---	2691	856	315	163	114	171	623=	4933
PCT. %	---	---	---	---	---	54.6	17.3	6.5	3.3	2.3	3.5	12.5=	100.0%
-----													
CANADA	---	---	---	---	256	54	21	9	8	1	2	52=	403
U.S.A.	---	---	---	---	2566	653	445	197	101	66	104	448=	4580
TOTAL	---	---	---	---	2822	707	466	206	109	67	106	500=	4933
PCT. %	---	---	---	---	56.7	14.1	9.4	4.1	2.2	1.4	2.1	10.0=	100.0%
-----													
CANADA	---	---	---	223	71	26	17	7	7	1	2	57=	411
U.S.A.	---	---	---	2247	906	386	333	152	85	48	78	387=	4620
TOTAL	---	---	---	2470	977	412	350	159	92	49	80	440=	5031
PCT. %	---	---	---	49.1	19.4	8.2	7.0	3.2	1.8	0.9	1.6	8.8=	100.0%
-----													
CANADA	---	---	198	67	47	20	14	5	7	0	2	54=	414
U.S.A.	---	---	2202	818	542	263	239	101	68	41	64	347=	4685
TOTAL	---	---	2400	885	589	283	253	106	75	41	66	401=	5099
PCT. %	---	---	47.1	17.3	11.6	5.6	5.0	2.1	1.4	0.8	1.2	7.9=	100.0%
-----													
CANADA	---	222	39	34	33	14	13	5	6	0	2	48=	416
U.S.A.	---	2109	798	465	387	200	203	91	60	34	56	308=	4711
TOTAL	---	2331	837	499	420	214	216	96	66	34	58	356=	5127
PCT. %	---	45.5	16.4	9.7	8.1	4.2	4.2	1.9	1.3	0.7	1.1	6.9=	100.0%
-----													
CANADA	219	49	23	26	16	12	13	4	6	0	2	48=	418
U.S.A.	2032	720	516	337	310	152	176	75	52	29	48	320=	4767
TOTAL	2251	769	539	363	326	164	189	79	58	29	50	368=	5185
PCT. %	43.4	14.8	10.4	7.0	6.3	3.2	3.6	1.5	1.1	0.6	1.0	7.1=	100.0%

The following chart lists the total number of stations in each state in the USA and each province in Canada, the number reported by IRCA members in Volume 22 of DX MONITOR and the number not reported at all since Volume #11 (ending Aug. 1974) by state and province. This chart does not include any stations operating with less than 100 watts (e.g. Canadian LPRT's).

T= Total number of stations

R= Reported in Volume 22

U= Unreported since Aug. 1974 (Volume 11)

STATE	T	R	U	STATE	T	R	U	PROV.	T	R	U
AL	158	33	29	MT	49	35	1	AB	43	37	1
AK	37	26	2	NE	50	24	0	BC	68	43	3
AZ	72	57	1	NV	22	21	0	MB	19	11	1
AR	102	19	11	NH	29	13	0	NB	18	9	2
CA	242	213	1	NJ	38	19	1	NF	34	12	13
CO	79	52	0	NM	62	42	2	NWT	5	0	2
CT	41	23	0	NY	166	65	14	NS	18	6	1
DE	10	5	0	NC	222	60	29	ON	101	59	5
DC	7	7	0	ND	34	16	2	PEI	3	2	0
FL	204	97	15	OH	131	55	3	QU	87	25	19
GA	194	43	20	OK	68	24	7	SK	20	15	0
HI	27	27	0	OR	87	70	0	YT	2	0	0
ID	45	28	0	PA	188	96	4				
IL	131	59	0	RI	15	15	0				
IN	89	26	1	SC	113	24	18	TOTALS			
IA	85	40	0	SD	36	15	1				
KS	62	21	1	TN	188	49	19		5185	2251	368
KY	137	29	11	TX	301	85	41				
LA	100	27	17	UT	41	33	0				
ME	39	11	6	VT	20	1	1				
MD	51	34	0	VA	146	49	13				
MA	68	52	2	WA	103	77	0				
MI	135	36	4	WV	67	26	7				
MN	101	33	4	WI	113	41	4				
MS	113	21	19	WY	32	15	1				
MO	117	43	8								

The following chart lists the same information as the chart above, except by regions instead of states/provinces.

REGION	T	R	U
North East (CT-ME-MA-NH-RI-VT)	212	115	9
Mid Atlantic (DE-DC-MD-NJ-NY-PA)	460	226	19
South Atlantic (FL-GA-NC-SC-VA)	879	273	95
South East (AL-AR-KY-LA-MS-TN-WV)	865	204	113
Mid East (IL-IN-MI-OH-VI)	599	217	12
Mid West (IA-KS-MN-MO-NE-ND-SD)	485	192	16
South West (AZ-NM-OK-TX)	503	208	51
Rockies (CO-ID-MT-UT-WY)	246	163	2
West Coast (CA-HI-NV-OR-WA)	481	408	1
Maritimes (NB-NF-NS-PEI-east NWT)	74	29	17
Eastern Canada (ON-QU)	188	84	24
Central Canada (MB-SK)	39	26	1
Western Canada & Alaska (AK-AB-BC-YT-west NWT)	154	106	8
TOTAL	5185	2251	368

## IRCA--UNREPORTED STATIONS TO DAM SINCE VOLUME 11 (August 1974)

## by State

AL--29-WMCO--660, WTKN--910, WWR--920, WGR--960, WKXY-1000, WLVN-1080, WAGQ-1130, WKIJ-1130, WKWL-1230, WJTB-1230, WHOD-1230, WBU-1230, WOPF-1280, WPEB-1330, WKAJ-1340, WMRK-1340, WSEB-1340, WPEB-1340, WELR-1360, WGYV-1380, WTCG-1400, WFA-1400, WZZA-1410, WPHK-1430, WAMG-1430, WSMQ-1450, WDLK-1450, WEGN-1470, WRDJ-1560,

AK---2-KGGN--770, KIFW-1230,

AZ---1-KESE-1230,

AR--11-KVMA--630, KBBA--690, KCGS--960, KAAB-1130, KWAJ-1240, KCAT-1340, KJWH-1450, KGCL-1460, KXAR-1490, KDRS-1490, KKDI-1540,

CA---1-KLLK-1250,

CO---0-

CT---0-

DE---0-

DC---0-

FL--15-WNUY--840, WCMQ-1210, WGNH-1230, WYD-1260, WIPG-1280, WYND-1310, WBY-1330, WWFL-1340, WFSH-1340, WIRA-1400, WWJB-1450, WKVQ-1490, WCKC-1490, WPKB-1490, WSIR-1490,

GA--20-WCEH--610, WXY--720, WBLW--810, WOH--920, WML--990, WSAF-1180, WCKJ-1230, WGAA-1340, WBBT-1340, WZEL-1380, WCLB-1400, WSG-1400, WCOH-1400, WADK-1420, WGPC-1450, WBHF-1450, WJLA-1470, WYYZ-1490, WFSB-1490, WLEJ-1560,

HI---0-

ID---0-

IL---0-

IN---1-WAOB-1280,

IA---0-

KS---1-KINA--910,

KY--11-WIDS--570, WSRG-1070, WGER-1110, WBGE-1200, WEQO-1220, WANO-1230, WBPA-1460, WPKY-1490, WLS-1520, WLY-1590, WFT-1590,

LA--17-KVGO--680, KJER--900, KROC--920, KXLA--990, KBCL-1070, KDLE-1170, KNEK-1190, WBIU-1210, KSLO-1230, KASO-1240, KVCL-1270, KVOB-1340, WPR-1400, KVL-1400, KMRC-1430, KCKW-1480, WIKK-1490,

ME---6-WODY-1230, WJR-1230, WSY-1240, WLV-1340, WHOU-1340, LKN-1450,

MD---0-

MA---2-WKOK-1200, WCEA-1450,

MI---4-WPZ-1340, WHMI-1350, WLJN-1400, WKLT-1420,

MN---4-KKRS-1230, KDLW-1340, KNSP-1430, KLLR-1600,

MS--19-WYAI--780, WQIS--890, WEGP-1080, WMA-1230, WHSY-1230, WAZF-1230, WIPA-1240, WGRM-1240, WYAM-1240, WESA-1260, WKOJ-1310, WJNB-1340, WKOZ-1340, WAML-1340, WMYQ-1410, WQIC-1450, WZBR-1520, WGSF-1520, WSL-1580,

MO---8-KJEL--750, KPMO-1240, KNEB-1240, KBPC-1250, KBMV-1310, KSMO-1340, KZMO-1420, KFFS-1440,

MT---1-KATL--770,

NE---0-

NV---0-

NH---0-

NJ---1-WRLB-1460,

NM---2-KLEA--630, KZAK-1310,

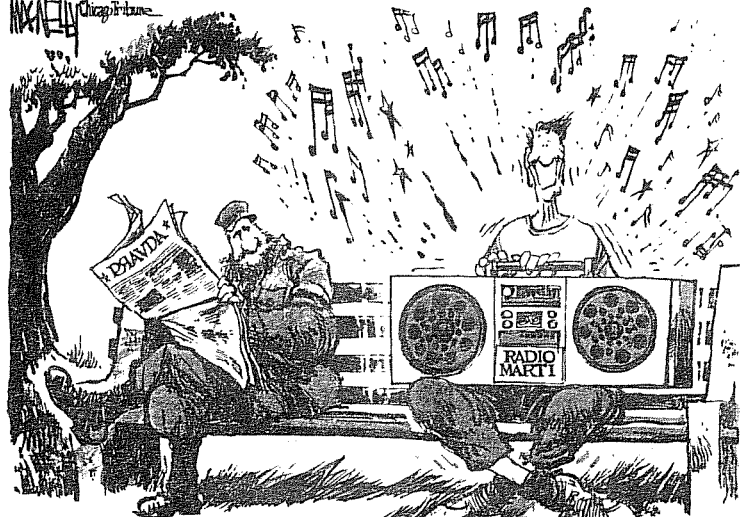
NY--14-WJHP--760, WQKA--850, WCHN--970, WVI-1170, WBAZ-1230, WKSJ-1340, WMA-1340, WBNY-1350, WVIN-1380, WDNY-1400, WSLB-1400, WCLI-1450, WKAL-1450, WGO-1490,

NC--29-WDLV--550, WCB--590, WRGC--680, WTHC--790, WPTL--920, WAAK--960, WAAA--980, WWX-1000, WGOK-1060, WRNA-1140, WYRU-1160, WFR-1230, WHNC-1230, WPNF-1240, WAGR-1340, WCBQ-1340, WJRE-1390, WSMR-1400, WJG-1400, WMYN-1420, WDJ-1430, WQNC-1450, WZS-1450, WHKP-1450, WRKB-1460, WTOE-1470, WLOE-1490, WSTF-1490, WOIX-1510,

ND---2-KWSK-1330, KPFM-1370,

OH---3-WCTM-1130, WFAH-1310, WCLT-1430,

OK---7-KBEL-1240, KIHV-1340, KRHD-1350, KTMC-1400, KALV-1430, KVIN-1470, KKOJ-1550,  
 OR---0-  
 FA---4-WTIV-1230, WJ02-1310, WACB-1380, WAMQ-1400,  
 RI---0-  
 SC---18-WQKI-710, WALD-1060, WFGN-1180, WKDK-1240, WKCM-1250, WCKI-1300, WKSC-1300,  
 WBNY-1370, WAGS-1380, WGTN-1400, WKDY-1400, WYMB-1410, WBUG-1430, WJBS-1440,  
 WCRS-1450, WVAP-1510, WCPL-1510, WFIS-1600,  
 SD---1-KQKD-1380,  
 TN---19-WIRJ-740, WCTA-810, WFFD-850, WPRQ-870, WWGR-960, WMUF-1000, WORM-1010,  
 WCGM-1120, WSGI-1190, MLR-1230, WQSI-1270, WTNX-1290, WKJT-1330, WGAP-1400,  
 WNBG-1400, WLAF-1450, WBHT-1520, WWRT-1590, WQZQ-1600,  
 TX---41-KURV-710, KFST-860, KNAF-910, KAML-990, KSTA-1000, KJJT-1000, KFXE-1050,  
 KHJK-1060, KKMJ-1150, KFHM-1150, KSIX-1230, KDLE-1230, KERV-1230, KLVY-1230,  
 KEEB-1230, KVLV-1240, KAVS-1240, KSOX-1240, KEPS-1270, KRAN-1280, KEUC-1310,  
 KAMG-1340, KBOF-1380, KULP-1390, KUNO-1400, KGVY-1400, KKNX-1400, KEBE-1400,  
 KDWT-1400, KBAL-1410, KBEN-1450, KCTI-1450, KGBL-1450, KCYL-1450, KMHT-1450,  
 KWWG-1490, KVOZ-1490, KDOK-1490, KVLV-1490, KBYP-1580, KYCX-1590,  
 UT---0-  
 VT---1-WDOT-1390,  
 VA---13-WCRR-660, WYRV-770, WSPC-1140, WODI-1230, WAMM-1230, WKEY-1340, WJMA-1340,  
 WBLE-1340, WHHV-1400, WHLF-1400, WBEL-1480, WPGC-1480, WPAK-1490,  
 WA---0-  
 WV---7-WGST-1010, WLOG-1230, WKMK-1250, WMTD-1380, WRON-1400, WJBB-1450, WTCS-1490,  
 WI---4-WOGO-680, WRIG-1390, WERY-1450, WBE-1530,  
 WY---1-KUYO-830,  
 AB---1-CHLW1-1340,  
 BC---3-CFTK-590, JKTK-1230, JJEK-1400,  
 MB---1-CFAR-590,  
 NB---2-CHLR-1380, JKMV-1490,  
 NE---13-CKCM-620, WOLR-800, CHVO-850, CFIG-970, CFLN-1230, JKIM-1240, CBSI4-1240,  
 CKWK-1300, CFSB-1340, CFLA-1340, CBS-1400, CBSQ-1490, WOHP-1490,  
 NWT-2-CFCT-600, CFFB-1230,  
 NS---1-CFAB-1450,  
 ON---5-CHAM-820, CFLK-1230, CFLH-1340, JKRE-1340, CFRC-1490,  
 PEI---0-  
 PU---19-CFRP-620, CIFG-710, JKSH-790, CHHG-1150, CFWT-1220, CSON-1230, JFAP-1240,  
 CJLD-1240, CHAD-1340, CFED-1340, CHHG-1340, JEGA7-1340, CFWT-1340, CFVD-1370,  
 CKRV-1400, CKRH-1400, CBSA4-1450, CHRT-1450, KLR-1490,  
 SK---1-CKOM-650.  
 YT---0-



IRCA--UNREPORTED STATIONS TO DXE SINCE VOLUME 11 (August 1974).

by Frequency

NOTE: Frequencies 540,560,580,640,670,700,730,880,930,940,950,1020,1030, 1040,1090,1100,1130,1500 & 1570 are omitted as all stations on these frequencies have been reported by IRCA Members.

- 550--WDLV-NC,
- 570--WISB-KY,
- 590--WQAB-NC, WPTK-NC, WPAR-MB,
- 600--WJST-NE,
- 610--WCEH-GA,
- 620--WJML-NE, WJPM-OU,
- 630--WVMA-AR, KLLA-NE,
- 650--WJOL-AR,
- 660--WCCO-AL, WJRR-VA,
- 680--WVGG-LA, WJGG-ND, WJCC-IL,
- 690--KBBA-AR,
- 710--WQXI-NC, WURV-FL, WJFC-OU,
- 720--WJXY-GA,
- 740--WIAJ-TN,
- 750--WJEL-NC,
- 760--WJHP-NY,
- 770--WJGN-AK, WATL-MT, WYRV-VA,
- 780--WYAL-MS,
- 790--WJNC-NC, WJBN-LU,
- 800--WQAR-NE,
- 810--WBLA-GA, WJTA-TN,
- 820--WJAF-ON,
- 830--WUYS-NY,
- 840--WJUY-FL,
- 850--WQKA-NY, WJPD-TN, WJVC-TP,
- 860--WJST-TX,
- 870--WJRC-TN,
- 890--WJIS-MS,
- 900--WJBR-LA,
- 910--WJML-AL, WJHA-MS, WJAF-TX,
- 920--WJRR-AL, WJCR-TA, WJCC-LA, WJTL-NC,
- 960--WJRR-AL, WJGS-AR, WJAF-MS, WJGR-TN,
- 970--WJCN-NY, WJFC-NE,
- 980--WAAA-NC,
- 990--WJHL-GA, WJLA-LA, WJOL-TX,
- 1000--WJXY-AL, WJBF-TN, WJBA-TX, WJJT-TX,
- 1010--WJHX-NC, WJBR-MS, WJST-VA,
- 1050--WJCE-TX,
- 1060--WJCK-MS, WJLD-NC, WJJK-TX,
- 1070--WJRG-KY, WJGL-LA,
- 1080--WJVN-AL, WJBF-MS,
- 1110--WJBR-KY,
- 1120--WJGN-TN,
- 1130--WJCC-AL, WJBJ-AL, WJAB-AR, WJTK-OH,
- 1140--WJWA-NC, WJPC-VA,
- 1150--WJNJ-NC, WJFM-TX, WJFC-OU,
- 1160--WYRB-NC,

1170--KDLP-LA, WMMI-NY,  
1180--WSAF-GA, WFGH-SC,  
1190--KNEK-LA, WSGI-TN,  
1200--WBCB-KY, WKOK-MA,  
1210--WCMQ-FL, WBIU-LA,  
1220--WEOO-KY, CFVM-QU,  
1230--WKWL-AL, WJBB-AL, WHOD-AL, WNUZ-AL, KIPK-AK, KESE-AZ, WCHH-FL, WCKJ-GA,  
WANO-KY, KSLO-LA, WQDY-DE, WJSR-DE, KMRS-MN, WOMA-MS, WHSY-MS, WAZP-MS,  
WBA-NY, WFR-NC, WNNC-NC, WTV-F, WMLR-TN, KSIX-TX, KDLK-TX, KERV-TX,  
KLVT-TX, KEBE-TX, WODI-VA, WAME-VA, WLOG-WV, CKTK-BC, CPLN-NF, CFPB-NF,  
CPLK-CN, CBON-QU,  
1240--KWAK-AR, KASO-LA, WSYX-DE, WFPA-MS, WGRE-MS, WYAM-MS, KPMO-MO, KNEM-MO,  
WFNF-NC, KEBL-OK, WKDK-SC, KVLP-TX, KAWS-TX, KSOK-TX, CKLE-NF, CBSI4-NF,  
CJAF-QU, CJMD-QU,  
1250--KLLK-GA, KBTC-MO, WCKR-SC, WYKE-WV,  
1260--WYD-FL, WCSA-MS,  
1270--KVCL-LA, WQSI-TN, KEPS-TX,  
1280--WIFC-FL, WAOB-IN, KRAN-TX,  
1290--WOPF-AL, WTKA-TN,  
1300--WCKI-SC, WKSC-SC,  
1310--WYND-FL, WKOJ-MS, KKV-MO, KXAK-MN, WPAH-OH, WJOZ-PA, KBUC-TX,  
1330--WFRN-AL, WEBY-FL, KWSK-ND, WKJT-TN,  
1340--WARK-AL, WEXR-AL, WSEB-AL, WFEB-AL, KCAT-AR, WJFL-FL, WFSH-FL, WGAA-GA,  
WBBT-GA, KVOB-LA, WLVC-DE, WYOU-DE, WFPZ-MI, KDLK-MN, WJMB-MS, WKOZ-MS,  
WAKL-MS, KSMO-MO, WKSN-NY, WESA-NY, WAGR-NC, WGBQ-NC, KIHN-OK, KAREG-TX,  
WKEY-VA, WJMA-VA, WBLB-VA, CHLW1-AB, CKWK-NF, CFFB-NF, CFWL-NF, CPHL-OH,  
CERE-CN, CHAD-QU, CPEL-QU, CKLG-QU, CBGA7-QU, CKVT-QU,  
1350--WHMI-MI, WRNY-NY, KRHD-OK,  
1360--WELR-AL,  
1370--KPFM-ND, WBNY-SC, CFVD-QU,  
1380--WGYV-AL, WZLH-GA, WVIN-NY, WAGB-PA, WAGS-SC, KCKD-SD, KBOF-TX, WMTD-WV,  
CHLR-NB,  
1390--WJRM-NC, KULP-TX, WDOT-VT, WRIG-WI,  
1400--WPCG-AL, WPAK-AL, WIRA-FL, WCLB-FL, WSGC-GA, WCOH-GA, WFPR-LA, KVLA-LA,  
WJLN-MI, WDNY-NY, WSLB-NY, WSEA-NC, WSIC-NC, KTEC-OK, WAMQ-PA, WGTN-SC,  
WKDY-SC, WNBG-TN, WCAP-TN, KUHO-TX, KGVL-TX, KKKX-TX, KEBE-TX, KDWT-TX,  
WHHV-VA, WHLP-VA, WRON-WV, CJEK-BC, CBG--NF, CKRV-QU, CKRN-QU,  
1410--WZZA-AL, WMYO-MS, WYMB-SC, KBAL-TX,  
1420--WADK-GA, WKLT-MI, KLFQ-MO, WBYN-NC,  
1430--WPHK-AL, WRMG-AL, KRRC-LA, KNSF-MN, WDJF-NC, WCLT-OH, KALV-OK, WEUG-SC,  
1440--KFFS-MO, WJBS-SC,  
1450--WSEC-AL, WDLK-AL, KJWH-AR, WJWB-FL, WGPC-GA, WBHF-GA, WKEN-DE, WCEA-MA,  
WQIC-MS, WCLI-NY, WKAL-NY, WGNB-NC, WZS-NC, WHEP-NC, WCRS-SC, WLFM-TN,  
KBEN-TX, KOTI-TX, KMBL-TX, KCVL-TX, KMHT-TX, WBB-WV, WHRY-WI, CFAB-MS,  
CBGA4-QU, CHRT-QU,  
1460--KCOL-AR, WFPA-KY, WRLE-NJ, WRKB-NC,  
1470--WEGN-AL, WOLA-GA, WTOE-NC, KVIN-OK,  
1480--KCKW-LA, WFWC-VA, WBBL-VA,  
1490--KXAR-AR, KDRS-AR, WKVQ-FL, WCKC-FL, WPXE-FL, WSIR-FL, WYYZ-GA, WSPB-GA,  
WPKY-KY, WIKC-LA, WDCO-NY, WLOB-NC, WSTP-NC, KABC-TX, KVOZ-TX, KDOE-TX,  
KVLL-TX, WPAK-VA, WTCB-WV, CBDQ-NF, VOHF-NF, CKTV-NB, CPRC-CN, CKLR-QU,  
1510--WOIX-NC, WVAF-SC, WCFB-SC,  
1520--WLCG-KY, WLAB-MS, WCSP-MS, WBHT-TN,  
1530--WMBE-WI,  
1540--KKDI-AR,  
1550--KAOJ-OK,  
1560--WRDJ-AL, WLEJ-GA,  
1580--WBLB-MS, KBYP-TX,  
1590--WLY-KY, WJPT-KY, WVRT-TN, KYCX-TX      1600--KLLR-MN, WFIS-SC, WQZQ-TN,

# Raising the roof on the AM band

After years with a 1600 khz ceiling, broadcasters and FCC are trying to decide how to handle newly allocated spectrum boosting top limit to 1705

Late last year, Maine broadcaster Allan Weiner built a 100-watt AM station in his hometown of Yonkers, N.Y., and, using the auxiliary broadcast channel of 1622 khz, began broadcasting a noncommercial format of music and community information. As the station demonstrated, most radios are able to tune in frequencies above the conventional AM band (535-1600 khz), at least as high as 1622 khz.

But when the FCC caught wind of Weiner's using his auxiliary broadcast channel for a broadcasting service, it, in the words of Weiner, "went ape wild" and knocked the station off the air.

Despite the protestations of the FCC, it may have been that Weiner's only real crime was being ahead of his time.

The U.S. and the rest of the countries of the western hemisphere are moving forward with plans to expand the AM broadcasting

band from 1605 to 1705 khz, a 10% increase, by the end of the decade. The new band will make room for hundreds of new AM stations in the U.S.

But it's not yet time to flood the FCC with applications for the new channels. As a matter of fact, it's likely the commission will not accept any until after 1988. Broadcast industry and government planners are making preparations for a Regional Administrative Radio Conference in Geneva next April where the international rules for the new band in Region 2 (North and South America) will be set. Only after those rules are finalized at another RARC meeting in the third quarter of 1988 can the FCC begin parceling out the channels.

In a report adopted in July, the FCC proposed that the expanded band be technically similar to the rest of the AM band to facilitate its rapid exploitation. If the FCC follows its way, the new band would have the same protection ratios and class of emission (double-sideband AM with full carrier) as the old one. And it would comprise 10 channels spaced 10 khz apart, starting at 1610 khz.

The FCC rejected one proposal that the channel spacing in the expanded band be set at 9 khz instead of 10 to make room for more stations. The FCC said 9 khz spacing would retard the introduction of service in the band by making broadband AM receivers costlier. At 10 khz, it said, the new stations will have the same opportunity as the old ones to broadcast high-quality stereophonic sound.

The FCC also proposed the creation of two classes of stations in the band: local Class C stations and regional Class B stations. The Class C stations would broadcast with a maximum power of 1 kilowatt, day and night. The FCC has yet to set power limits on the regional stations, but it said the industry consensus is that the maximum power should be no greater than 10 kw.

According to a study by the allocations policy subgroup of the Advisory Committee on Radio Broadcasting, how many stations the new band will accommodate in the U.S. depends on what class of station predominates. If the channels are used primarily for regional outlets, it said, no more than 300 stations could be squeezed into the band. But if the band is used primarily for local stations, it could find room for more than 1,800. If the band is used for a mix of local and regional, the total would presumably fall somewhere in between those two figures.

Although many AM radios tune well beyond 1600 khz, some do not and few go all the way to 1700 khz. So for the new band to succeed, receiver manufacturers will have to begin making a new type of broadband AM radio.

In a technical sense, the channels in the new band will be inferior to those in the old. That's due to physics. According to Wallace Johnson, an engineering consultant who heads the technical subgroup of the Advisory Committee on Radio Broadcasting, the higher the frequency, the poorer the daytime (groundwave) propagation. All else being equal, he said, the daytime signal of a station operating on 540 khz will go much farther than that of a station on 900 or 1700 khz. Frequency has relatively little effect on nighttime (skywave) propagation, Johnson said.

Despite the less-than-desirable physical properties of the channels in the new band, there is no lack of interest in them. Various elements of the broadcasting industry are already vying for preferential treatment in

the awarding of the channels.

In comments to the FCC, the National Association of Broadcasters argued that existing daytime-only broadcasters should get preferential treatment because of their years of service.

What's more, it said, daytimers that are granted channels should also receive a waiver of the duopoly rules, allowing them to operate both the old daytime and new full-time station in the same market at the same time. After a specified number of years—after the new band is fully established and broadband receivers are commonplace—the daytimers would have to give up one of their stations.

The National Black Media Coalition opposes NAB's plan. It feels minorities should get first crack at new channels. To help make its point, it submitted a list to the FCC identifying 338 communities that could support 1,351 "minority" stations.

The Corporation for Public Broadcasting contends that some of the new channels should be set aside for noncommercial broadcasting. In addition, it feels that any daytimer that wants to move up to the full-time service in the new band should give up the daytime channel which would be turned over for noncommercial broadcasting.

Also vying for channels in the new band are proponents of the Travelers Information Service. TIS stations, which now operate on 530 and 1610 khz, are used by government agencies primarily to broadcast road and weather conditions to motorists. In their comments, proponents of the service asked the FCC not only to preserve 1610 khz for the service, but also to allocate two additional channels in the new band for additional TIS stations.

Not everybody is excited by the prospects of hundreds of new AM stations. Some existing AM broadcasters, who have suffered from stiff competition from better-sounding FM stations, see the expansion of the band as nothing more than an open door to new competitors.

To offset any harm that existing AM broadcasters may incur as a result of expanding the band, James McKinney, chief of the FCC's Mass Media Bureau, has indicated that the FCC may give all existing AM broadcasters first dibs at new channels in their markets so that they will have a chance to improve their facilities.

In an interview with BROADCASTING last month, McKinney said: "The FCC's primary interest, stated repeatedly over the years, is to allow present broadcasters to better serve their listening audience." Support from broadcasters in implementing the new band is critical, he said. Without it, he said, "you won't sell radios; you won't get it going."

With the FCC taking steps to take away Weiner's two Maine radio licenses for putting his Yonkers station on the air at 1622 khz, he is not apt to engage in any more out-of-band broadcasting. But he still feels Yonkers deserves its own radio station and shouldn't have to wait for the FCC to make the new expanded AM band channels available.

The way the commission operates, he said, "it could be well into the next decade before sees the first new station on the air." ■

**WHAT'S BRUIN:** The signal of UCLA's KLA-AM (530) is so weak that you can't even pick up the station in its campus-based studio.

Such is life for the student-run station where you'll find:

—A closet-size, cluttered engineering studio crammed with antiquated equipment, most of which doesn't work.

—A collection of albums that's so small there's barely a need for shelves.

—Live broadcasts of both men's and women's volleyball, the undisclosed radio sport.

—A play list that mixes the Meat Puppets with Joan Armatrading.

Yet, in its own quirky way, KLA succeeds as a combat-zone training ground for broadcasting, giving UCLA students something no student receives at USC's KUSC-FM (91.5): hands-on radio experience.

Unlike KUSC, which employs professional announcers, engineers and managers, KLA takes its entire crew straight from the classrooms.

"Some people come here for the social aspect," said KLA general manager Vince Landay, a senior majoring in political science, "and some disc jockeys refuse to play any music they don't like, but most really want to get on the air."

Consequently, KLA's staff of 200 now broadcasts 24 hours a day, seven days a week. The station hasn't suffered a programming lapse since an unattended tape snapped in the middle of the night during a recent school break. "I remember turning on the station at 7 in the morning," recalled Landay, "and hearing a nice hum."

He was fortunate in one respect: He could, at least, hear the station as KLA holds no broadcast license and transmits on a "carrier current," it must ricochet its signal off the campus dorms, hoping it will career toward some student's radio. KLA is also piped into the school's cafeteria, student union and video arcade and has recently been added to Group W's FM cable, at 89.9.

Above: Broadcasting Magazine 10/28/85  
via Robert Wien (used by permission)

Left: Los Angeles Times 5/7/85, via  
Steve Mittman (I think)

## THE INTERNATIONAL RADIO CLUB OF AMERICA

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1620 KHz). "DX Monitor", the official publication of the IRCA, is published 31 times a year, weekly from October to March, twice in September and April, and monthly from May to August. "DX Monitor" contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to radio hobbyists. IRCA is a member of ARAC, the Association of North American Radio Clubs.

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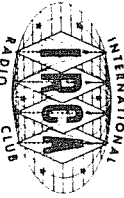
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