



DX Monitor

Devoted Exclusively to
Broadcast Band DXing

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No DXWW-East this time, due to no reports. It'll be a different story when Neil gets my report from Texas, though....

DX TEST

KLMR-920 in Lamar, CO, will test 0030-0230 ELT on 3/29 for IRCA. The first half hour will be 5 kw nondirectional with 1 kHz TT and voice IDs. The last hour will be 500 watts directional with 1 kHz TT and voice IDs. Send reports to Chuck Springer, CE, KLMR Radio, P.O. Box 890, Lamar, CO 81052.

FLASH TIPS

All sorts of them this time. KENU-1330 in Enumclaw, WA will hit the air sometime around 3/15-3/22. The station had originally planned on a 3/1 startup but had problems matching the antenna to the transmitter. KAYO-1150 began using 5 kw fulltime on 3/2 (had been 5/1 kw). Per a report from John Zondlo, KNOR-1400 in Norman, OK, burned down on 2/24 but is probably back on by now with temporary facilities. WGSM-740 has a new transmitter, per a Newsday story, via Greg Monti. WIZW-1410 runs Larry King AN-6, and tests irregularly on MMs, per a letter from their CE to Rob Harrington. And there's a new TIS in operation on 530 at the Seattle-Tacoma International Airport.

LATIN AMERICAN ELECTIONS

The following election dates were gleaned from the latest US News and World Report: Guatemala 3/7, Colombia 3/14 (local elections), El Salvador 3/28, Colombia 5/30 (Presidential), Mexico 7/4.

REVISED PUBLISHING SCHEDULE

Thanks to my upcoming vacation and the missing issue of a few weeks ago, we've revised the publishing schedule a bit. The following list supercedes anything I may have told anyone verbally, by letter, or in DXM. It should be treated as the absolute Gospel truth (until further notice, hi.).

Number	Masthead Date	HQ Deadline
26	March 20	March 15 (Anniversary Issue)
27	April 3	March 29 (April Fool's)
28	April 17	April 10
29	May 1	April 26
30	May 22	May 17
31	June 12	June 7
32	July 10	July 2 (Friday deadline due to 7/4 weekend)
33	August 7	August 2
34	August 28	August 23

QUADCITIESIN82QUADCITIESIN82QUADCITIESIN82QUADCITIESIN82QUADCITIESIN82

By a vote of 40 to 13, Quad Cities, Illinois, won over Saint Louis, Mo. as the site for this year's convention. The convention will take place August 13, 14, and 15, at the Holiday Inn in Moline. Watch these pages for more details on the convention and start making your plans to be there!

PRESIDENT'S REPORT

Don Kaskey
465 Burnett, Apt 1
San Francisco, CA 94131

Recent Board of Directors Activity has resulted in MARK STRICKERT being unanimously appointed as our new GRAVEYARD RECORDS EDITOR. All of you Graveyard frequency addicts can now send your record catches to Mark at P.O. Box 931, San Francisco, CA 94101-0931. Mark, it would probably be a good idea if you published your criteria for this column sometime soon to refresh us all with your requirements.

Items going to the Board are: (1) Confirmation of Phil Bytheway as CPC Chairman. Other candidates were Todd Skaine & Rob Harrington. (2) Confirmation of Robert Kramer as IRCA's 3rd ANARC Representative (the other two are Bruce Portzer and myself). Other candidates were Sheldon Remington, Terry Klasek, Rob Farrington & Mark Strickert. (3) Proposal to drop Phil Conley as Contest Manager. (4) Proposal to confirm Rob Harrington as new contest manager if #3 above is approved. Other items discussed in my letter to the board were: (1) complaint of irregularity filed by member Gary Carl Mitchell against member Dan Sys. (2) Consequences of ANARC dropping SLIDX (St. Louis International DXers) from their membership (c-ANARC Newsletter, January 1982, page 5) and the effect this may have on the convention bid presented by St. Louis. (3) Feasibility of adding a QUESTION & ANSWER COLUMN to DXE in the future and (4) dropping the CONDITION OF FREQUENCY COLUMN which has been inactive for quite some time.

Hopefully you all have your ballots in by now for the 1982 Convention. Whatever has happened to our DXers back east? Bob Lazar's a fine editor but he's certainly been underworked this season. Don't keep your catches secret fellows & gals.

Again, thank all of you for your support of IRCA, especially those of you whose contributions I see regularly in our hallowed pages. May 1982 be a banner DX year to all. 73 dkd

SATELLITE MUSIC NETWORK

The following list of SMN affiliates was sent in by Glen Kippel. SMN is actually at least two networks, one with country mx (KKIC-950 et al) and one with pop mx (KROW-780 et al). Unfortunately, the list didnt say who was which....

KCNO 570	Alturas, CA	WAGF 1320	Dothan, AL
WHPL 610	Winchester, VA	WKMC 1370	Roaring Spring, PA
KSXX 630	Salt Lake City, UT	WFEZ 1390	Meridian, MS
WBCI 740	Williamsburg, VA	WKXJ 1450	Campbellsville, KY
KROW 780	Reno, NV	WTHU 1450	Thurmont, MD
WSUZ 800	Palatka, FL	WTMB 1460	Tomah, WI
WHRT 860	Hartselle, AL	WYNC 1540	Yanceyville, NC
KKSN 910	Vancouver WA/Portland, OR	WWVN 1550	Vienna, GA
KORD 910	Tri-Cities, WA	WIZY 1560	Gordon, GA
KKIC 950	Boise, ID	WPAD 1560	Paducah, KY
WKLM 980	Wilmington, NC	KKAA 1560	Aberdeen, SD
WTGC 1010	Lewisburg, PA	WQIQ 1590	Aston, PA
WQIO 1060	Canton, OH	WSCR ????	Hamden-New Haven, NC
WCBX 1130	Eden, NC	WELL ????	Marshall-Battle Creek, MI
WEEQ 1130	Waynesboro, PA	WANC ????	Aberdeen, NC
WKDA 1240	Nashville, TN	WBAX ????	Wilkes-Barre, PA
KAAM 1310	Dallas, TX		Plus several FMs

For the uninitiated, Satellite Music Network is a complete radio program service with DJ patter, music, etc., with local breaks for ads and IDs. The programming is fed from studios near Chicago via satellite to the above stations.



the irca technical column

Editor: Nick Hall-Patch
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Canada

Well, this may not be another receiver issue of DX Monitor, but it sure looks like another receiver issue of the Technical Column! We'll start with a miscellany:

An article which showed how to build an 80 meter receiver using 4 ICs and 3 transistors, and is reputed to have very good strong signal handling ability appeared in the April 1981 issue of QST. Three of the ICs are manufactured by Plessey, and are rather hard to come by. Jim Hill, 3801 Palos Verdes Drive North, Palos Verdes Estates, CA 90274 has found a local Plessey distributor which can supply these at reasonable prices, but there is a \$25 minimum order, and a waiting period. If you're looking for these ICs (the QST circuit could be adapted to MW), contact Jim to help make up a combined order. The SL6440 high level mixer IC looks particularly interesting--see the January 1981 QST for a description of this and other high level mixers.

Jim also sent the data sheets for the PCIM 177 LCD Digital Frequency Counter Module. This can be programmed to various IF offsets, and can display up to 3999.9 kHz with no peripheral components, save perhaps a L.O. buffer--note the .1 kHz resolution. It's about 60x40x11 mm in size, uses a few mA of current at 5-7 volts, and costs \$25 postpaid from Printed Circuits International Inc., 1145 Sonora Court, Sunnyvale, CA 94086. With a suitable prescaler, this unit will also display SW and FM frequencies with a number of available IF offsets.

Jameco Electronics, 1355 Shoreway Rd., Belmont, CA 94002 carries the chip, LEDs and crystal necessary for Chuck Hutton's TRF readout project (DX News, Jan 11/82) at reasonable prices.

Armand Di Filippo sends word of a large educational demonstrator open top superhet radio with all parts labelled, noted on p. 28 of the Nov. 81 catalog of Jerryco Inc., 5700 Northwest Hwy., Chicago, IL 60646. Price is \$47.50 plus shipping, and it might be useful for tinkering with, as it should have lots of spare room for modifications. Jerryco catalog is 50#.

Matt Stutterheim has been dealing with a person who stocks service and technical manuals for surplus radio equipment. Send \$1.00 for List 81A to M. Consalvo, 7218 Roanne Drive, Washington, DC 20021. The list includes popular surplus receivers such as the R-390A, as well as some pretty obscure ones, at prices from \$6-\$27.

International DXers Club of San Diego, 1826 Cypress St., San Diego, CA 92154-1154 now has two supplements to their Shortwave Hobby Equipment Review. Supplement A covers contemporary, pre-transistor, military surplus and European receivers. Supplement B covers accessories, antennas, tuning hints etc. \$3.10 each 1st class to U.S.A./Canada, \$6 for both.

Per Randy Tomer, Ham Radio Outlet in Burlingame, CA says that the R-600 list price will be \$399, should be available as you read this. On Radio Nederland's Media Network program of Feb 4/82, it was mentioned that Drake will soon be selling the R-7A, an R-7 with noise blanker and CW filter, and unspecified modifications to the AM wide position. Price--\$100 more than the R-7.

Has any owner of the Realistic 12-656 TRF noticed a delay in the AGC recovery time? Derek Claridge's TRF shows about 1 second recovery time to show full gain once more after tuning past a strong signal. This effect has not been noticed on the 12-655.

* * * *

Comparing the DX-160 and the GE Superadio

by Karl J. Zuk

I have owned the DX-160 for about seven years and have modified it with two transfilters in the IF section and coupled the internal loop antenna to the external antenna connection point on the rear of the set (see the Tech Guide and DXM #595). I now generally use the DX-160 for shortwave and the Superadio model 7-2880B for BCB. First, a few descriptive words. The Superadio is essentially a good quality listener's portable, and its controls--bass, treble, volume and tuning--reflect this. The DX160 is an inexpensive communications receiver, and has other controls--bandsread, BFO, RF gain, antenna trimmer, as well as an S-meter. Here is a comparison of the operation of the two sets on BCB.

The sensitivity of the Superadio is fine with its internal antenna. My set is not modified, and can pick up Caribbean stations easily almost any night (ZIZ, TIRN, 4VEH etc.). I have never owned an HQ-180 or R-390, and this is the most sensitive BCB radio I have owned. Listening on the DX-160 is a constant battle between signal strength and overload, using an external antenna, as the internal loop is not much use. The set has sufficient sensitivity, but I find that I always have to balance the RF, IF and antenna trimmer, along with a pot in the antenna line, so that I can dig between channels. I now use a 30 foot long antenna that has much less signal to offer on BCB, but seems to be as good for long-haul DX as my 300' wire. If every station within 200 miles signed off, I bet the DX-160 could really pull them in with the 300 footer, but with NYC being 50 kw heaven, I can't use all that signal. The Superadio has more useable sensitivity; it deals with signals better.

As for selectivity, my modified DX-160 gets the award, but by a hair, as it is a much more versatile receiver. It is easier to look for a split because it has a BFO; easier to tune because of its bandsread, plus a sharper "nose" in bandwidth. Thus, it seems to "see" a carrier easier than the Superadio. At sunrise and sunset when my local 10 kw, WHLI-1100 is on, I can cut away to 1090 with ease on the DX-160. The Superadio sweats it, even with the added ability to null. However, there has been almost no station that one radio can get that the other can not. Only when a deep null is necessary can the Superadio beat the DX-160. Using a DX-160 with a loop would be interesting, in fact may be the best way to go, but I can't afford one! (ed note: How about an unamplified air-core loop? Cheap if you build it yourself...)

I haven't found any individual spurs on the Superadio using the internal antenna, but connecting in the large random wire and ground swamped the set. Though there were still no individual spurs, a general hash of local stations covered the entire band, making it useless. The stock DX-160 had serious problems with spurs and overload. Replacing the antenna input diodes (see Tech guide) improved its performance greatly, but with even a short antenna I get an occasional birdie here and there. The problem is much more obvious on SW, but provided that you don't overload the front end, the set handles BCB OK. A preselector like on the Drake rigs would be a great addition for using a random wire.

As for audio quality, the GE is just superb. It can sound as good as a decent stereo, or can be shaped to sound like a communications receiver. The DX-160 has serious audio problems and there are times when this really hampers the readability of signals. Any sort of tone control would help. The DX-160 with any speaker is an audio nightmare.

Antennas are a problem for both receivers. The DX-160 needs an antenna, as the internal ferrite rod is worthless without more amplification. I would suggest a medium sized loop or other directional antenna so that you could control strong signals. I have yet to find a way to connect a random wire antenna to the Superadio that did it any good. As I said before, hooking a wire to the external antenna terminal swamps the set here in suburban NYC, and you also lose your nulls. The best way that I have found to use an external antenna is to make up a simple LC circuit and bring it near the built-in ferrite rod, coupling it for best signal transfer. My gut reaction is "who needs it?" The Superadio can take care of itself.

Dial accuracy is a problem at least in my case, with the DX-160. I have never aligned this set for calibration, and on all bands, the dial and actual frequency don't come close to tracking. You just have to learn where everything is and grow weary counting frequencies. For 19 and 31 meters, I use WWV for a reference and use tables I've developed that tell me where I am on the bandsread. On the other bands I will set the bandsread on "80" and zero-beat that with a loud local BCB station, then switch to the other band and be calibrated to my conversion charts. Pretty accurate, and pretty ridiculous in this day and age, but I can't afford an outboard digital readout. I have made a similar chart for the Superadio using the center scale "LOG" markings, and find that to be accurate. The Superadio dial is much easier to deal with. (ed note: According to DX News, Feb 1/82, a Superadio Plus, #7-2882, with digital readout, at \$139.95, is coming on the market)

The only thing I would want to add to the Superadio would be switchable selectivity, like 14 kHz and 1.5 kHz. I've already modified the DX-160

in its antenna inputs, its RF and IF gain controls and its selectivity. Future projects, which I will make public after I work them out, will be separate pots for IF and RF gain, and an added antenna gain control. A ground on-off switch is another good idea, simply done. I also want to take a hard look at what makes this set's audio so unintelligible, as this is its most serious problem for me.

Incidentally, I have access to a Dymek AM-5, Dymek DR-22 and Drake SPR-4 at work and have tried all three on BCB. The SPR-4 is much better, in some cases, than my DX-160. It has a tendency to show spurs and overload, even with its preselector however. It can really cut the cheese in selectivity, its audio quality is OK, and the notch filter is very useful. It would be nice if the preselector tracked with the tuning dial, as tuning both at once trying to band scan is trying! I like the rig overall. The DR-22 is made for lazy and rich listeners and NOT for MW DXers. It can't handle the cesspool of signals in New York City. Its wide bandwidth setting makes for hi-fi AM, but BCB sounds lousy compared to SW. The Dymek AM-5 is better for listening to the BCB, and its selectivity controls and RF controls work well, but forget it for splits and high signal areas. This has potential, if it could be modified for selectivity and signal handling.

* * * *

The IGF D11W and the Realistic "Timekube" by Sheldon Remington

There is a digital portable for under \$100! The Sony ICF-D11W is an AM-FM portable about the size of the TRF, and contains an LCD clock/timer which also functions as a frequency display. Resolution is to 1 kHz on AM and 10 kHz on FM; tuning is conventional, not synthesized. An AC adapter is optional; the unit uses 2 D cells, and separate penlight cell for the display/clock.

Unfortunately, I don't have a Superadio or TRF to compare it with. My impression has been that it would need modification (Shotgun loop, sharp filters) to be really hot. Selectivity is adequate for domestics, but not for splits (except maybe HLAZ-1566). Sensitivity is so-so, not good enough to pull much in on 650/660 kHz, but it gets INE-521 fairly well. FM characteristics are likewise typical of modern portables (some overloading in urban areas). Audio quality is outstanding, partly due to a massive magnet on the speaker. There is a bit of backlash in the tuning; funny to see that on a digital radio.

I tried coupling it to a longwire (it has no external antenna connector) but spurs showed up. Probably with a Shotgun, it would be better for serious DXing. The ICF-D11W had a list price of \$200, but it has apparently been discontinued, and I bought mine for \$100 in San Francisco. Subsequently, I have seen them for \$90 at E.C. Wenger in Oakland. (ed note: Ben Peters has seen them for \$65 in Amsterdam. He likes his for listening and waking up to; perhaps not so much for DXing!).

The clock can be set for 24 hour or AM/PM, and it has stayed within a few seconds over the last 6 months. The frequency display is called up by a pushbutton, and it automatically reverts to clock mode after 30 seconds, a feature I could do without, hi.

The Realistic Timekube: This cute little box is for receiving WWV and WWVH; it does an outstanding job of it. The circuit is sophisticated for the price (\$35), featuring separate crystal oscillators for 5, 10 and 15 MHz (very stable), tight AGC, crisp audio, and a whip antenna. I get a lot of use out of it, keeping track of solar geomagnetic indices. Sensitivity is very high--I can often get a useable signal with the whip extended only a few inches.

Power is supplied by an internal 9-volt battery, which seems to last forever. It is very handy to just push 3 buttons, choosing the best, and hear the latest data. WWV reception can be useful in itself as a propagation indicator (aurora causes fluttery signals; high solar activity brings loud WWVH on 15 MHz etc.) Highly recommended.

* * * *

Sheldon also sends some dynamic range measurements (indicating strong signal handling ability) from QST over the past couple of years.

Receiver	Noise Floor	2-tone 3rd order IMD Dynamic Range
Drake R-7	-133 dBm	100 dB
Kenwood R-1000	-133 dBm	76 dB
Realistic DX-302	-129 dBm	37 dB
Yaesu FRG7700	-126 dBm	75 dB
JRC NRD-515	-136 dBm	90 dB

A larger negative number for the noise floor indicates a more sensitive receiver; I presume these figures were measured with all receivers using a similar bandwidth IF filter, as a narrower bandwidth filter would change the noise floor value. Intermodulation Distortion (IMD) Dynamic Range means that two similar frequency signals of the given strength above the receiver noise floor fed into the receiver antenna terminals will show no discernible spurious signals in the receiver output; e.g. the Drake R-7 will handle two signals, say 20 kHz apart, each of -33 dBm at the antenna terminals before showing spurious responses. So the larger the value, the better the receiver dynamic range (resistance to spurious responses). Pity the poor DX-302! The figures are presumably for measurements in the amateur bands, so there may be some variation in values at MW frequencies.

News from Europe (courtesy of Ben Peters)

-----Similar measurements for the above receivers were seen in cq-DL (the magazine of the German Amateur Radio Club) and at a Dutch amateur radio show. In addition, the Collins R-390A checked in with a noise floor of -131 dBm, and a dynamic range of 81 dB.

-----In the really pricey receiver stakes, there is the Hagenuk RX1001; it tunes 10 kHz-30 MHz in 10 Hz steps, has 40 channel memory (including all settings of controls for each channel), scanning ability, keyboard or tuning knob frequency selection, other microprocessor goodies...not to mention steep-sloped 2.7 kHz IF filters plus wider and narrower ones; noise floor by my calculations (NHP) about -123 dBm and dynamic range 95 dB. Price a mere DM 16900 (about \$7000 U.S.); more info from Hagenuk, P.O. Box 1149, D2300 Kiel 1, West Germany. (Hmmm--the RACAL RA6790 has better signal handling specs for something around \$5000--this stuff should go in the April Fool's edition, hi.--ed.)

-----No price yet on the AEG Telefunken E1700 (or E1800 with microprocessor) but not cheap. This company's E1500 bettered the R-7 in signal handling, but the E1700 has a +38 dBm 3rd order intercept according to an article in Funkschau (a German magazine in the Wireless World class). Presuming a similar noise floor to the E1500, this yields a dynamic range of about 113 dB, more than any other commercial receiver. 10 kHz-30 MHz coverage.

-----The Yaesu FRG-7700 modified by Surrey Electronics and described in the Jan 2/82 DXM has the improved front end in both versions, and includes the memory unit in both versions. No mods to the IF passband though; the set has excellent MW and LW audio according to a British hi-fi magazine.

-----The Philips AL990 Worldreceiver described in the same DXM does cost \$330 U.S.; Dutch price was wrong. Ferroreceptor antenna is not defeatable. Philips radios are sold under the Magnavox name in the U.S. according to the Marketplace Report.

-----In "Funk" (W. German radio hobby magazine), Jan-Feb '82 is information on the Kathrein-Werke "LM Sperrkreise". This little unit has five variable notch filters, is to be placed between the antenna and receiver. One notch can be placed somewhere in the LW band and is 18 dB deep. The other four notches are 25 dB deep and can be used to notch out powerful locals on MW, 2 notches below 900 kHz, 2 above 850 kHz. The notches are reasonably sharp, though some attenuation will take place 10 or 20 kHz away from the notched frequency as well. It could help out a receiver with front end problems, especially those with AGC applied to an RF amplifier. No price given, but try 2 IRCs or \$1 to Kathrein-Werke KG, Postfach 260, D-8200 Rosenheim 2, West Germany, for further information.

-----Whew! And there's still enough for another column. You contributors have outdone yourselves this season!

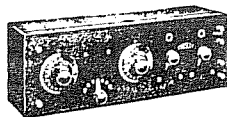
73---NHP

March, 1972

FOR DISTANCE
HERE is a RECORD

The remarkable results achieved with Crosley Radio Instruments are equaled only by their exceptionally low cost. A man in Sebring, Fla. listening in with a Crosley Model X—price only \$55 for this 4 tube set—writes: "We are receiving from all standard stations north, east and west—from Winnipeg, Can., New York City, Seattle, Wash., and one night received three selections and two announcements from KDXC at Honolulu."

CROSLY
RADIO APPARATUS
Better
Costs Less
Making distance records everywhere



Crosley Receiver Model X

The most complete receiving set on the market. A 4 tube set consisting of one stage of tuned radio frequency, detector, and two stages of audio frequency amplification. It was on this instrument that Sebring, Fla. heard Honolulu. Price, without batteries, tubes and phones \$55.00.

GYDXR

GRAVEYARD DX RECORDS (pre-'81) 1230 kHz EDITOR: Mark Strickert, PO Box 931
 from records on hand... San Francisco, CA 94101-0931

	Call	City	Miles	DXer-Location
AL	WAUD	Auburn	891	Kaskey--Galva IA
	WBHP	Huntsville	1989	Allen--Vallejo CA
	WHOD	Jackson	140	Ayers--Jackson MS
	WTBC	Tuscaloosa	749	Robertson--Caldwell MI
AK	KTFW	Sitka	1429	Allen--Vallejo CA
AZ	KSNJ	Bisbee	1160	Nolan--Eugene OR
	KAAA	Kingman	1350	Eddie--Saint Louis MO
	KFLR	Phoenix	1103	Kaskey--Galva IA
	KATQ	Safford	901	Dabelstein--Omaha NE
	KTNO	Winslow	1000	Bytheway--Seattle WA
AR	KCON	Conway	1654	Allen--Vallejo CA
	KFPW	Fort Smith	310	Eddie--Saint Louis MO
CA	KGRO	Bakersfield	728	Bytheway--Seattle WA
	KWTC	Barstow	300	Wein--San Jose CA
	KIBS	Bishop	785	Portzer--Penguin WA
	KXO	El Centro	2675	Wood--Kailua HI
	KDAC	Fort Bragg	390	Nolan--Eugene OR
	KGFJ	Los Angeles	790	Nolan--Eugene OR
	KPRJ	Paso Robles	1430	Kaskey--Galva IA
	KRDG	Redding	472	Bytheway--Seattle WA
	KWJ	Stockton	655	Bytheway--Seattle WA
CO	KRXO	Grand Junction	871	Bytheway--Seattle WA
	KLRK	Leadville	3195	Wood--Kailua HI
	KDZA	Pueblo	1133	Kesteven--Edmonton AB
	KSTC	Sterling	1196	Wheeler--Erie PA
CT	WJNF	Manchester	421	Sorensen--Emsdale ON
FL	WSSR	New Smyrna Beach	854	McCormack--West LaFayette IN
	WVYV	Pensacola	828	Cartwright--PA
	WGNH	Quincy	697	McCormack--West Lafayette IN
	WJNO	West Palm Beach	68	Strickert--Coral Gables FL
GA	WRJA	Augusta	2403	Miller--Bellevue WA
	WRLJ	Dalton	566	Wheeler--Erie PA
	WXLJ	Dublin	2236	Allen--Vallejo CA
	WFOM	Marietta	680	Abraham--Bridgeport MI
	WSOK	Savannah	820	Jezziorski--Brookfield IL
	WAYX	Waycross	1072	Kaskey--Galva IA
ID	KBAR	Burley	570	McCullough--San Jose CA
	KORT	Grangeville	623	Allen--Vallejo CA
	KRXK	Rexburg	665	Allen--Vallejo CA
IL	WJEC	Bloomington	475	Wheeler--Erie PA
	WQUA	Moline	442	Robertson--Croswell MI
	WHCO	Sparta	1756	Allen--Vallejo CA
IN	WJOP	Hammond	736	Belanger--Winnipeg MB
	WSAL	Logansport	477	Sorensen--Emsdale ON
	WTCJ	Tell City	557	Kaskey--Galva IA
	WPCW	Terre Haute	866	Belanger--Winnipeg MB
IA	KFTR	Marshalltown	3958	Wood--Kailua HI
IA	WMTL	Danville	2029	Allen--Vallejo CA
IA	WHOP	Hopkinsville	1894	Allen--Vallejo CA
LA	KLIC	Monroe	734	Kaskey--Galva IA
	WBOK	New Orleans	808	Winsor--Valparaiso IN
	KSLO	Opelousas	868	Kaskey--Galva IA
MD	WTFH	Baltimore	1007	Kaskey--Galva IA
	WCMD	Cumberland	454	Winsor--Valparaiso IN
MA	WNNB	North Adams	224	Brown--Ottawa ON
	WNER	Worcester	432	Sorensen--Emsdale ON
MI	WOUZ	Grand Rapids	161	Heimburger--Port Huron MI
	WIKB	Iron River	1795	Allen--Vallejo CA
	WMPC	Lapeer	179	Wheeler--Erie PA
	WSOO	Sault Sainte Marie	370	Wheeler--Erie PA
	WSTP	Sturgis	537	Dabelstein--Omaha NE

GYDXR/1230 continues...

MINN	WKLK	Cloquet	406	Dabelstein--Omaha NE
	KGHS	International Falls	575	Winsor--Valparaiso IN
	KYSM	Mankato	715	Wheeler--Erie PA
	KMRS	Morris	352	Markewicz--Camp Norton MB
	KTRF	Thief River Falls	890	Wheeler--Erie PA
	KWNO	Winona	594	Wheeler--Erie PA
MISS	WCMA	Corinth	667	Wheeler--Erie PA
	WHSY	Hattiesburg	861	Kaskey--Galva IA
	WSSO	Starkville	664	Wesolowski--Omaha NE
	WAZF	Yazoo City	1552	Allen--Vallejo CA
MISSOURI	KODE	Joplin	286	Dabelstein--Omaha NE
	KIWT	Lebanon	377	Kaskey--Galva IA
	KWLX	Moberly	311	Winsor--Valparaiso IN
MTNEBR	KTMN	Bozeman	804	McCullough--San Jose CA
	KHDN	Hardin	3255	Wood--Kailua HI
	KKLO	Lewistown	808	Allen--Vallejo CA
	KLCB	Libby	859	Markewicz--Camp Norton MB
NEBRASKA	KTNC	Falls City	80	Dabelstein--Omaha NE
	KHAS	Hastings	1280	Allen--Vallejo CA
NEVADA	KELY	Ely	1034	Kaskey--Galva IA
	KLAV	Las Vegas	830	Pytheway--Seattle WA
	KCBN	Reno	1007	Kesteven--Edmonton AB
NH	WMOU	Berlin	227	Brown--Ottawa ON
	WTSV	Claremont	220	Edmunds--Kinnelon NJ
NJ	WCMC	Wildwood	110	Edmunds--Glen Rock NJ
NM	KPSA	Alamogordo	893	Wein--San Jose CA
	KOTS	Deming	1200	Nolan--Eugene OR
	KYVA	Gallup	980	Nolan--Eugene OR
	KFUN	Las Vegas	1419	Wheeler--Erie PA
	KRSY	Roswell	1105	Winsor--Valparaiso IN
NY	WECK	Cheektowaga	2238	Miller--Bellevue WA
	WENY	Elmira	561	Winsor--Valparaiso IN
	WIGS	Gouverneur	206	Sorensen--Emsdale ON
	WHUC	Hudson	60	Morby--Ballston Lake NY
	WLFH	Little Falls	280	Cartwright--Johnstown PA
	WFAS	White Plains	335	Wheeler--Erie PA
NC	WSKY	Asheville	764	Brown--Ottawa ON
	WFAL	Fayetteville	350	Mount--Nelsonville OH
	WMFR	High Point	20	Hall--Greensboro NC
	WISP	Kinston	161	Singer--Richmond VA
	WCRT	Roanoke Rapids	410	Wheeler--Erie PA
ND	KDIX	Dickinson	3496	Wood--Kailua HI
OH	WMLX	Cincinnati	605	Sherman--Rosemount MN
	WCOL	Columbus	969	Belanger--Winnipeg MB
	WLRO	Ironton	253	McCormack--West Lafayette IN
	WCWA	Toledo	185	Wheeler--Erie PA
OK	KADA	Ada	1430	Allen--Vallejo CA
	WBBZ	Ponca City	1378	Allen--Vallejo CA
OR	KVAS	Astoria	148	Nolan--Eugene OR
	KRNS	Burns	461	Allen--Vallejo CA
	KHSN	Coos Bay	438	Wein--San Jose CA
	KRDR	Gresham	560	Wein--San Jose CA
	KQJK	Lakeview	450	Hall-Patch--Victoria BC
	KYJC	Medford	360	Hall-Patch--Victoria BC
	KTDO	Toledo	500	Wein--San Jose CA
PA	WBVP	Beaver Falls	784	Kaskey--Galva IA
	WEEK	Easton	619	Winsor--Valparaiso IN
	WKBO	Harrisburg	541	Winsor--Valparaiso IN
	WCRO	Johnstown	896	Kaskey--Galva IA
	WBPZ	Lock Haven	185	Edmunds--Glen Rock NJ
	WTTV	Titusville	55	Gantzer--Fredonia NY
RI	WERI	Westerly	336	Brown--Ottawa ON
SC	WAIM	Anderson	865	Kaskey--Omaha NE
	WOIS	Florence	2363	Allen--Vallejo CA
SD	KKRC	Sioux Falls (KKKS)	710	Robertson--Crosswell MI



P. O. BOX 1981

PH. 622-0290

ROSWELL, NEW MEXICO 88201

1230 ON EVERY DIAL

GYDKR/1230 and counting...

IN	WAKI	McKinnville	720	Edmunds--Glen Rock NJ
TX	KSLX	Corpus Christi	3764	Wood--Kailua HI
	KDLK	Del Rio	3540	Wood--Kailua HI
	KNUZ	Houston	1635	Allen--Vallejo CA
	KERV	Kerrville	88	Kuenast--Austin TX
	KLVT	Levelland	734	Kaskey--Galva IA
	KEEE	Nacogdoches	3900	Wood--Kailua HI
	KOZA	Odessa	1440	Nolan--Eugene OR
	KGRO	Pampa	429	Dabelstein--Lincoln ME
	KSST	Sulphur Springs	882	Nuthals--Green Bay WI
	KWTX	Waco	1487	Allen--Vallejo CA
UT	KPRQ	Murray	890	Kesteven--Edmonton AB
	KOAL	Price	866	Dabelstein--Omaha NE
VT	WJOY	Burlington	304	Sorensen--Emsdale ON
VA	WODI	Brookneal	98	Singer--Richmond VA
	WFVA	Fredricksburg	292	Wheeler--Erie PA
	WNOR	Norfolk	2541	Millar--Bellevue WA
WA	KOZI	Chelan	186	Hardy--Aberdeen WA
	KWYZ	Everett	715	Wein--San Jose CA
	KSPO	Spokane	705	Allen--Vallejo CA
	KREW	Sunnyside	260	Nolan--Eugene OR
WV	WKYG	Parkersburg	398	Edmunds--Red Bank NJ
WI	WHBY	Appleton	302	Belanger--Swan River MB
	WCLO	Janesville	930	Kaskey--Bryan TX
	WKGO	Wausau	437	Eddie--Saint Louis MO
WY	KVOC	Casper	1038	Allen--Vallejo CA
AB	CJOK	Fort McMurray	656	Bytheway--Seattle WA
BC	CKQR	Castlegar	480	Nolan--Eugene OR
	CJML	Merritt	750	Belanger--Swan River MB
	CFBV	Smithers	540	Bytheway--Seattle WA
ON	CKMP	Midland	67	Wolfish--Toronto ON
	CJLB	Thunder Bay	550	Wilson--Burlington ON
QU	CJLP	Disraeli	184	Saltmarsh--Penacook NH
	CHVD	Dolbeau	560	Mount--Teaneck NJ
	CJSA	Saint Agathe Des Monts	50	Beauregard--Lachine QU

Not Reported: AL: WKWL, WJBB, WNUZ; CO: KBCR; FL: WGGG, WONN, WMAF; KY: WANO;
ME: WEME, WQDY, WSJR; MA: WESX; NC: WNNC; TN: WMLR; TX: KSEY; VA: WBBI, WXCF;
WV: WLOG; BC: CKTK; MB: CHFC; NF: CFCN, CFLI, VOAR; NWT: CFFB; ON: CJTT, CFLK.

All listed are records prior to January 1981. If you heard any stations that qualify for the 1230 pre-1981 list, please send them along before the next 1230 list. The next 1230 list, sometime in the fall, will list records for January 1, 1981 and after, making special note of course for any which beat all-time records. If you have heard any other graveyard that you think may set a distance record, for the pre-81 list or the new one, please send them in as well. 1240 pre -81's, with luck, will be typed by the time this shows, but you should still have a shot at 1340, 1400, 1450 or 1490 yet. Actually, there is no rush on the "81-on" list; in fact, it's best that you hold off sending those before summer.

Part II: Graveyard DX Totals...number heard/verified on each GY freq. Example:

	1230	1240	1340	1400	1450	1490	Totals
Strickert, CHI IL	2/7	9	3	8	11	3	36/1
Coral Gbls FL	1	2	2	1	1	2	9
Oakland CA	2	4	1	1	1	3	12
Schmoe, Silly ME	3/2	4/2	4/3	7/6	8/3	2/0	28/16

Single number is heard, x/x is heard/verified. If one would rather have totals shown with each frequency individually, it could be run like this example, for 1230kHz:

	Heard	Best heard	QSL'd	Best Verified
Strickert, Chicago IL	2	WJBC Bloomington	1	WJOB Hammond IN
Coral Gbls FL	1	WJNO W Palm Ech FL	--	
Oakland CA	2	KDAC Fort Bragg CA	--	
Schmoe, Silly ME	3	WQDY Calais ME	2	WEME Belfast ME

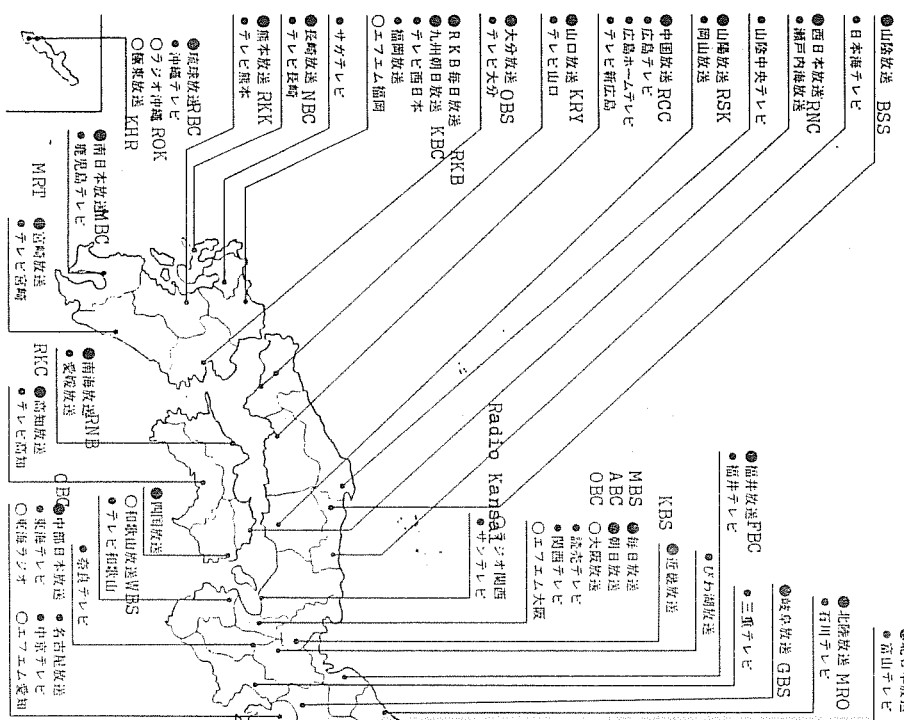
For now, these are only possibilities...ALL comments, ideas, compliments, etc. should be passed along to ye editor at Box 931 SF 94101. 73's & decent DX...

JAPANESE RADIO NETWORKS

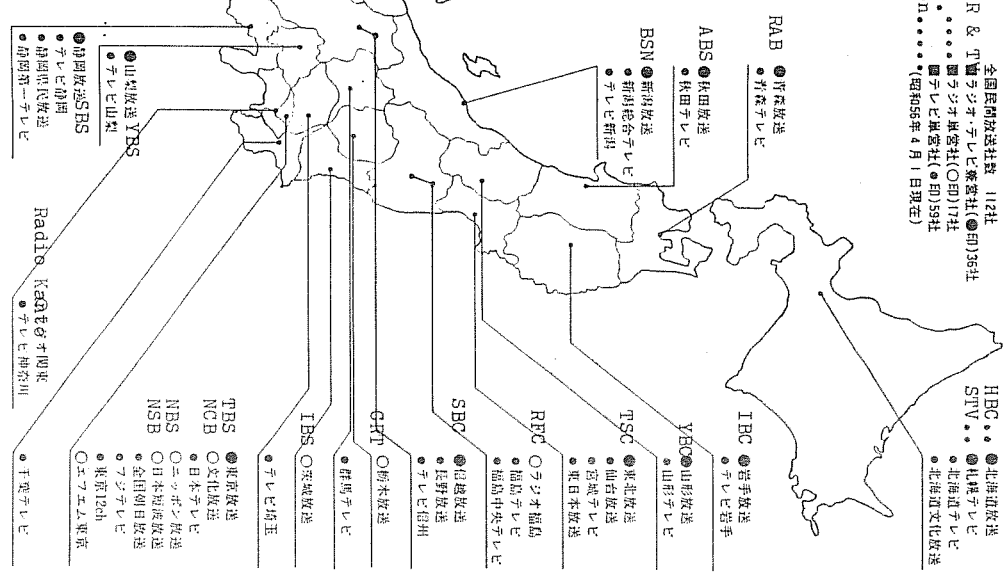
In response to Charlie Taylor's recent article on IDing Japanese stations, Kiyoshi Omura of the Japan BCL Federation has sent the following list of Japanese network affiliates. Basically, there are two major networks: the Japan Radio Network--key station is JOKR-954, and the National Radio Network--key stations are JOQR-1134 and JOLF-1242.

Station		JRN	NRN
Hokkaido-Hoso (HBC)	1287kHz		NRN
STV-Radio	1440		NRN
Aomori-Hoso(RAB)	1233	JRN	NRN
Iwate-Hoso(IBC)	684	JRN	NRN
Tohoku-Hoso(TBC)	1260	JRN	NRN
Akita-Hoso(ABS)	936	JRN	NRN
Yamagata-Hoso(YBC)	918	JRN	NRN
Radio-Fukushima(RFC)	1458	JRN	NRN
Tochigi-Hoso(CRT)	1530		NRN
Tokyo-Hoso(TBS)	954	JRN	
Bunka-Hoso(NCB)	1134		NRN
Nippon-Hoso(NBS)	1242		NRN
Niigata-Hoso(BSN)	1116	JRN	NRN
Shin'etsu-Hoso(SBC)	1098	JRN	NRN
Yamanashi-Hoso(YBS)	765	JRN	NRN
Kita-Nihon-Hoso(KNB)	738	JRN	NRN
Hokuriku-Hoso(MRO)	1107	JRN	NRN
Fukui-Hoso(FBC)	864	JRN	NRN
Shizuoka-Hoso(SBS)	1404	JRN	NRN
Chubu-Nippon-Hoso(BN)	1053	JRN	
Tokai-Radio-Hoso	1332		NRN
KBS-Kinki	1143		NRN
Mainichi-Hoso(MBS)	1179	JRN	NRN
Asahi-Hoso(ABC)	1008	JRN	NRN
Osaka-Hoso(OBC)	1314		NRN
Wakayama-Hoso(WBS)	1431	JRN	NRN
San'in-Hoso(BSS)	900	JRN	NRN
Sanyo-Hoso(RSK)	1494	JRN	
Chugoku-Hoso(RCC)	1350	JRN	NRN
Yamaguchi-Hoso(KRY)	765		NRN
Shikoku-Hoso	1269	JRN	NRN
Nishi-Nihon-Hoso(RNC)	1449		NRN
Nankai-Hoso(RNB)	1116	JRN	NRN
Kochi-Hoso(RKC)	900	JRN	NRN
Kyushu-Asahi-Hoso (KBC)			NRN
RKB-Mainichi-Hoso(RKB)		JRN	
Nagasaki-Hoso(NBC)		JRN	NRN
Oita-Hoso(OBC)		JRN	NRN
Miyazaki-Hoso(MRT)		JRN	NRN
Minami-Nihon-Hoso (MBC)		JRN	NRN
Radio-Okinawa(ROK)			NRN
Ryukyu-Hoso(REC)		JRN	

4. 全国民間放送現勢図 (昭和56年4月1日)



全国民間放送社数 112社
 全国ラジオテレビ兼営社 117社
 TV Station..... 15社
 Radio Station..... 19社
 ● 北日本放送 KNB
 ● 福山テレビ



WABC, Forsaking Music Format, Planning Switch to Talk and News

By FRANK J. PRIAL

WABC, once the most influential popular-music radio station in the country, is switching to a format of talk programs and news. Battered by low ratings and the loss of its once-vast teenage audience to FM stereo stations, WABC is doing what has been done by all but one of the AM stations owned by the American Broadcasting Companies.

The end of WABC as a purveyor of the so-called Top 40 formula has broad implications. It represents, according to broadcast specialists, the recognition that AM broadcasting cannot compete with the more technically advanced FM broadcasting in the reproduction of music.

"AM is finished for music," one ABC official said. "We should have done this years ago."

According to figures compiled by the Arbitron Company for the period between Sept. 24 and Dec. 16 of last year, ABC's FM station, WPLJ, which was once an insignificant factor in New York broadcasting, garnered a larger audience share than WABC. WPLJ plays what is called progressive rock.

ABC officials were vague about the actual date for the changeover to talk and news, but officials at other New York stations said they expected the new format to begin April 1. WABC will join WOR and WMCA in broadcasting news and talk on the AM band.

"We look forward to having them," said Ellen S. Straus, president of WMCA. "Statistics show that another station adopting the format increases the audience for all. It also increases awareness in the advertising community of this type of broadcasting."

In adopting a news and talk format, WABC is following a pattern first set by KABC in Los Angeles 20 years ago. Currently, according to ABC officials, its stations are No. 1 in audience share in Los Angeles and San Francisco, both with the news and talk format.

With the changeover at WABC, all of ABC's AM stations will be using the format with the exception of WLS in Chicago, described by one ABC aide as "a musical giant."

20 Years of Success

"The talk formula may not be the only format, but it is certainly one of the best," said Ben Hoberman, the man who created the format for KABC two decades ago and who is now president of ABC Radio.

"What's more," he said, "a lot of AM operators are looking at it. They see 20 years of success at KABC in Los Angeles."

"WABC was the premium rocker for years using the Top 40 format," one broadcasting executive said. "Then, about four years ago, they were killed by disco, particularly station WKTU. Overnight, WABC dropped from about an 11 share of the market to around 3."

"They tried going for 50 percent Top 40 and 50 percent disco. Then when disco died, they tried 50 percent Top 40 and 50 percent of what is known as the mellow sound. But it was too late. The audience had moved to FM and particularly to FM stereo."

Concentration of Revenues

"Not too many years ago," the executive said, "you'd find four or five stations in each big market bringing in 60 percent of the advertising revenue. Another five or six would do close to 40 percent. Then there'd be a couple of dozen little guys doing maybe a half of 1 percent."

What's On

Following are the formats of the main radio stations heard in the New York City area:

WADO-AM: a Spanish-language music station.

WBAL-FM: a noncommercial listener-supported station, with predominantly talk.

WBSL-FM: a rock station aimed mainly at black audiences.

WCBS-AM: all news.

WCBS-FM: solid-gold rock.

WEVD-FM: a diverse station with many foreign-language programs.

WHEN-AM: country music.

WINS-AM: all news.

WJIT-AM: Spanish-language programming with mostly music.

WKTU-FM: rock, mostly disco.

WLBB-AM: aimed at black audiences with mostly Caribbean music.

WMCA-AM: all talk.

WNBC-AM: adult contemporary rock music.

WNCN-FM: classical music.

WNEW-AM: middle-of-the-road music, emphasizing the big-band sound of the 1930's to 1950's.

WNEW-FM: progressive, contemporary rock music.

WNYC-AM and FM: classical and folk music, news and talk.

WOR-AM: the original all-talk station in New York City.

WPIX-FM: album-oriented rock music.

WPLJ-FM: (WABC's sister station): album-oriented rock.

WQXR-AM and FM: classical music.

WRFM: background music.

WRKS-FM (WOR's sister station): urban contemporary rock.

WWRL-AM: black-oriented programming with mostly music and some talk.

WYNY-FM (WNBC's sister station): upbeat middle-of-the-road, light contemporary music.

The following out-of-town stations also cater to New York City audiences:

WPAT-AM and FM: background music.

WTFM: adult-oriented music.

WYNY-AM and FM: mostly background music, with FM station programming jazz at night.

"Then everyone started buying FM stations and pouring money into them—often people from TV stations. FM was intrinsically superior for music and, because they had no ads at first, they broadcast long periods of music. The AM music stations had to cut down on commercials. That began the gradual conversion to the talk format."

In fact, WABC has been converting to a talk format for almost a year. Its morning show, from 5 to 9 A.M.—what is known in the trade as "drive time," has two "personalities," Ross Britton and Brian Wilson. Their banter leaves time for only four records an hour.

There is also a sports talk show, a show featuring a psychologist, and more recently, an all-night talk show. The expected changeover will merely complete the 24-hour cycle.

'The End of an Era'

Two former WABC disk jockeys differed widely yesterday in their interpretations of the station's plan.

"It's the end of an era," said Bruce Morrow. "I'm sick." At WABC during the 1960's and early 1970's, as Cousin Bruce, Mr. Morrow was one of the best-known disk jockeys in the nation.

He dates WABC's decline from the early 1970's, when anonymous programming executives replaced the disc jockey, who had proved to be all too susceptible to record-company bribes. The programmers, using computers, determined the most popular songs in the country, called them the Top 40 and played them over and over. In fact, there were rarely more than 18 songs in the top 40.

"It was music by computer," Mr. Morrow said. "I knew then it was the beginning of the end."

Mr. Morrow now owns four radio stations in the New York suburbs that play what he insists is a "personalized version of the Top 40."

'Cut Down on News'

Scott Muni, a WABC disk jockey who is now operations director for WNEW-FM, shed no tears for his former station. "We've actually cut down on news," he said, "to give our listeners more music."

"Fragmentation is the name of the game in New York — and any other large city," he added. "And there's nothing wrong with that. Look at all the things you can listen to in New York."

Mr. Hoberman of ABC believes that there will be even further fragmentation within the talk and news format. He cited WOR's formula of established personalities and WMCA's formula of audience-call-in shows.

In addition, he disclosed that ABC is about to start a talk show network that will distribute shows, initially from KABC in Los Angeles, all over the country.

"Listeners will be able to call in using an 800 number," he said. "It will be talk on a national scale."

Radio Station WRAC

1559 W. Fourth St.
Williamsport, Pa. 17701

NBC RADIO NETWORK



Radio Station **KTOB**

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EASTERN DX FORUM

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RICHARD EVANS
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NORTH WALES, PA 19454

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C. M. Stanbury II, RR #1, Ridgeway, Ontario LOS 1N0

Acc. to the 1/25 Broadcasting, 10 of the 11 member board which will oversee R. Marti have now been appointed and of those 10 only 1 has international broadcast experience. He is George Jacobs, former chief of VOA's frequency division, director of engineering at R. Free Europe/R. Liberty, and most recently a technical consultant for WRNO Worldwide. I have in my files several "fascinating" Jacobs letters on behalf of the Voice of America concerning such topics as VOA coverage of Apollo 8, VOA Dry Tortugas, and the alleged non-DX-test from VOA Okinawa. Some of these letters were most recently dealt with in the March, 1980 S9. Suffice to say the Jacobs letters constitute an interesting collection of historical artifacts. Philip Boersma suggested in the 12/19 EDXF that the AM broadcast media is dying: if so, Reagan and Castro may arrange things so that it goes out with a bang (and isn't that a great straight line for the upcoming April Fool issue, hi).

Glenn Hauser, Box 6287, Knoxville, Tenn ssee 37914-0287

(cont. from last week...) The next day as far north as the Clearwater, Fla. area, the best Cuban was Reloj-760. Near the coast, however, co-channel QRM from a US station. Somehow I doubt it was 1 kw WCPS Tarboro, N.C., the nearest one listed. Now something along the Gulf coast? (Which reminds me, Lafayette, La. has a new station on 770, KJCB, which has "members" and may devote 30% of air time to supporting Creole French, per the janvier issue of "Louisiane".) The TIS as Tampa, Fla. airport was another one off frequency to 1609.8 or so, and BFO indicated there were two different carriers. A brief attachment to a N/S (apx) fence near mile 324 of I-75 (that's 10 km south of the junction w/hwy 44), still revealed audio on 834, het on 1555, and Cubans audible on 760 820 880 1020 1030 1090 1160 1180, at around 1330 EST. "Rest of the Story" fans can check WBT-1110 at 1810. And I'm enjoying the weird, raunchy news items on "Animal Stories" from WLS-890 heard ending around 1850-1855 EST; not sure when it starts. At the junction of I-285 loop and I-75 on the south side of Atlanta, there is a sign saying "tune to 530 for emergency traffic info"; I did, and heard nothing but an open carrier, at 2155. Which brings me back to Knoxville, where I may as well update you on our TIS-530 "network". With the reconstruction of Malfunxion Junxion nearing completion, the tizzies are no longer continuous and I think some of the transmitters have been de-activated. The original one at West Hills I still hear with OC most of the time. At other times there is continuous tone test. Last time I heard an audio message, I think, was during the expected traffic jams with the last UT football game. However, that's nothing compared to the mess expected to accompany the 1982 World's Fair here which opens May 1, and one or two of the TISs are expected to be back in full use to try to alleviate there. (to be cont...)

Bruce Portzer - 6546 19th Avenue NE - Seattle, WA 98115

As John Denver would say, it's good to be back home again. I managed to fit in quite a bit of DXing during my latest 2 week stint in ArmadilloLand. See Kaz's & Kramer's columns in a week or three. In a total of nearly 4 non concurrent weeks there, I managed to hear 33 states, 2 provs, 12 countries, and a few estados. Wisconsin is almost as tough there as it is here, but I managed to pull a few squeaks out of WISN-1130 a couple days before I left. While in Amarillo, I was fascinated by the way the band would open up to a certain area on a particular night. There were nights when reception to the NW was notably good, or the northeast was exceptional, or when Mexicans were all over the dial, or when Central America was exceptionally good. That may sound somewhatish to some DXers, but here in Seattle our DXopenings are limited to normal cx, rotten cx, and (occasionally) good California/Tijuana cx. The idea of good east, west, or north DX openings is practically unheard of here. Why? Because we have no domestic stns to the west and almost no skywave stns from northern BC. Which means DX only comes in on bearings between about 40° (Edmonton) to about 190° (OR/CA). And there are few large population centers east of here for hundreds of miles, and hence fewer short-skip signals in that direction.

Recent varies include several of the BC wx stns on 1630 for late December receptions. All of them confirmed that operation on 1630 ended 12/31, although they still use the 2 MHz and VHF bands. 73 til next week.



Western DX Forum

★ ★ ★ ★

IRCA—Serving the Broadcast Band DX'er Since 1964

Editor: Ric Heald, P.O. Box 4861, Santa Rosa, CA 95402-4861 (707) 538-5187

1981/2 Deadlines—Weekly on Wednesday, 10 Days Prior to Publication Date

(Note: Tuesday Deadlines Prior to U.S. 3-Day Weekends)

RANDY TOMER, 1969 27th ST., ARCATA, CA 95521

I just got word from a reliable source that the new Kenwood R-600 is full of birdies on the BCB, so should be avoided by the serious DX'er. Using a tuned antenna doesn't seem to help, so the problem could be serious. Hopefully this is due to an early production bugaboo that can be cleared up:

The MM5430 digital display chip can be purchased from Jameco Electronics, 1355 Shoreway, Belmont, CA 94002. Phone: (415) 592-8097. Price is only \$6.25 but they have a \$10 minimum.

At a local radio/hi-fi shop I was drooling through the '82 Panasonic catalog; they have some nice looking stuff. Of interest was Panasonic's version of the Superadio. Can't remember its model number, but it looked good. Their emphasis was on its great sound; unfortunately no mention was made of its pull-in power or of its having a tuned RF stage. Also of note was a small, deluxe-looking AM/FM (part of their "Elite" series) that was stated to have an "RF stage on AM," didn't say if it was tuned RF. I think it was called the RF-081. I'd like to get one but I have about 50 radios now. 73 de RET.

BILL HARDY, 2301 PACIFIC AVE., ABERDEEN, WA 98520

Some random notes from our recent trip to the Oregon coast.

On Monday, 15 February, a number of outlets were noted with ABC's radio coverage of the Leonard-Finch fight at 2200 ELT. Most were Ai outlets like KOMO, KEX, KNPT 1310 and KBCH 1400. I'm curious as to how ABC decides which affiliate gets their sports events, like the fight, Sugar Bowl, Kentucky Derby, etc. in cities where there are Ai, Ae, Ac, Af affiliates. (Money is usually strong language. You pay the line charge, you're in-RTH.)

We didn't have time to do a daytime bandscan from Newport, Oregon, because we were busy sightseeing and browsing in gift shops. Sometime this summer we will have to do a bandscan from Kalaloch on the Washington coast where flea-powered Oregon coastal outlets dominate over the closer Puget Sound power-houses. Traditionally the loudest signal on the dial at Kalaloch has been KBCH 1380 lkw from some 200 miles away. Wonder if that still holds true now that KBCH is on 1400.

The Mutual network seems to have satellite dishes for its affiliates even in small, remote markets. KVAS 1230, KTDO 1230, KCYX 1260, KUIK 1360 and KITN 920 all had satellite-quality audio on Mutual newscasts. The difference is like day and night from their former phone-line audio to those markets. It also makes ABC's feed via phone lines to small-market stations like KAST 1370, KBCH 1400, KNPT 1310 and KBKW 1450 sound sick. If nothing else, the network's musical commercials sound a thousand times better via satellite. I realize the network advertiser is looking for the big-city and 50 kw audience, and considers the small-market audience as a "bonus." But the network ads no longer detract from the program on Mutual.

I'll close this forum with an Aberdeen bandscan: 540-1190 kHz, loud, electrical noise; 1200-1610+ kHz, slop and crossmodulation from my locals on 1320, 1450, 1560. Anyone still wonder why I'm not DX'ing? hi. 73 and good DX.

STEVE MITTMAN, 2248 W. 37th ST., SAN PEDRO, CA 90732 (213) 833-1010

Hi all. Quick forum this time. I'm interested in trading local airchecks with DX'ers in other parts of the country. Currently I'm trading airchecks with a DX'er in Vancouver and would like to expand my horizons (or should that be, "expand to other horizons,"? hi). Basically what I'm interested in is swapping 90-minute cassette airchecks of your AM and especially your stereo FM rock stations. I'm interested only in "high fidelity" home tape deck recordings, preferably utilizing chrome tapes (and Dolby if you have it). (Please, no portable cassette recordings). I have two good cassette decks and am in the midst of building up a cassette library of all my rock locals, so it would be very easy for me to record two tapes at once (one for me, one for you), or duplicate existing tapes. Via cable and antenna reception I can record for you high-quality recordings of virtually every AM and FM station in the greater Los Angeles, Orange and San Diego counties, as well as most stations in the Inland Empire (San Bernardino area). If you're interested, please contact me. 73 de SNM.

GENE MARTIN, 3303 E. EVANS AVE., DENVER, CO 80210

What you run into on the BCB never ceases to amaze me, and my latest case of this recurring phenomenon was found on 650 kHz the morning of 24 February. That morning WSM was still delivering the strongest signal on the frequency as late as 1600 GMT or 2100 MLT. I watch 650 closely around sunrise for some-day I think I might hear Alaska there if the A-index ever gets down to reasonable levels. What usually happens is that after WSM is taken away by the Tennessee sunrise, some Mexican shows up for a while and then disappears in its sunrise. This is followed by the appearance of KORL which remains in until the Denver sunrise takes it away. I have KORL basically alone for 30, maybe 40 minutes. During the time when Hawaii is there, I keep nulling it hoping the Alaskan will get in some morning. So far it never has.

But on 24 February, this scenario never developed that way. WSM and the Mexican were there at 1350 while I'm usually beginning to hear KORL by that time. Sunrise came at 1342 that date. Taping across the hour at 1400 had WSM with some interfering station. I noted traces of KORL-like MYL music at 1407, 1436, 1448. Taping across the hour at 1500 turned up nothing ID'able, but at 1526 I heard a WSM ID. There had been more KORL music in there about 1507, also 1514, 1540, 1546. By this time the Mexican was long gone from the 650 equation. The loop was aimed right at Los Angeles and the combination of WSM and KORL was about the same as KFI for Los Angeles also was growing weaker all the time.

Finally, taping from 1558-1608 you hear two stations there. One is WSM and you don't know for sure if the other one is KORL. It's very poor across 1600 but you can recognize WSM from the fact you've been listening to it for 90 minutes or so. And you have noted the program structure.

So summing it up on 24 February, I was still getting a signal from WSM as late as 10.08 in Nashville and interference on it, most likely from KORL at 6.08 in Hawaii. And the DX'er world just isn't supposed to behave in that way.

JEF JAISUN, 12860 136th AVE. NE, KIRKLAND, WA 98033

Because I missed the receiver issue a few back I ought to put in a couple cents on my own rig. It's a Hammarlund SP-600JX with no box that I picked up about three years ago. I've also used a Hallicrafters S-40A, my stereo and a clock radio. Guess which one works the best?

Unlike Nick and Glen, I'm not well versed at receiver modification, so what I can do is tell you what the problems are with this rig. They are things you may have to watch for if you ever decide to buy one. First, I've noticed the audio clipping Glen referred to upon the introduction of the Noise Limiter. However, because I usually employ the non-xtal 3 kHz setting anyway. I don't find the limiter to be a problem. If it is, I just turn up the gain (and (and wait for that next burst of static, hi).

The Frequency Control section with the VFO and six xtal settings has never worked. I get normal tuning on the VFO setting, but the xtals don't lock in. This is surprising because two of them are for WWV(H): 2.5 and 5 mHz. The other two xtals that came with the rig are 7.335 mHz and 2988.385 kHz (what the hell is/was that??).

The "butterfly" link connector that runs between the Xtal Phasing dial and its internal box is kaput. The flexible copper strips broke away from the steel section and soldering won't fix it. Last I saw of the connector it was in the mail to Radio West four months ago. Grant said he sent it back but it never got here. He recommended Swedgal Electronics in New York for a replacement, but Swedgal wrote back to say, sorry, sucker, we only deal wholesale manufacturers. (Swedgal moved, incidentally, but so what? hi.)

Thing is, however, there are three such connectors in an SP 600 and if they go TU you may be stuck.

The Band Change dial is a little klutzy, especially if you're a right-handed DX'er. You really have to wrench it to shift gears (which occurs at 1350 between bands one and two). This change is made by turning the dial clockwise and because it's on the left side of the radio you generally grab it with your left mitt, which for 90 percent of us is the weaker one. It's even worse going downstream cuz it's backhand. Also, the frequency read-out isn't particularly accurate, especially in the upper bands. (Continued next week-RTH.)

RIC HEALD, P.O. BOX 4861, SANTA ROSA, CA 95402-4861 (707) Jefferson 8-5187 to 2200 PLT, 2000 PLT FRI & SAT prepaid

Greetings. I would move right around Anniversary issue time, hi. Finally settled in and have done some day and night bandscans and my theory about living in a deep valley has proven true. Rincon Valley is a broad valley with low hills to the north, west and wide open to the southwest, with a few peaks over 2,000 feet to the southeast and east, but several miles away.

All daytime signals are far stronger and many more of them and not so easy to null Bay Area signals.

Woke up early (0430 PLT) one morning and did a bandscan. KORL was roaring away where on the River they were in with a whisper and only occasionally. And the het on 747 was strong (with KCBS on) whereas I heard a faint trace of a het before. I'm gonna DX this upcoming Monday morning.

Surprisingly little noise (after TV's go off, hi); I'm in a 60-unit town-house complex (four per unit, in clusters), but I'm all the way to the back, so about one block from powerlines. There's a 125-unit apartment complex adjacent, but still, fairly quiet.

Bill Hardy, I'd like to see another IRCA Almanac. I also like Jaisun's idea about the computers. It would really save a ton of time. Now if the membership would vote in favor of a 100 percent dues increase to cover the cost, we'll be all set, hi.

Bill, I oversimplified the process of plugging in to network feed. But, for big events, as the song goes, "You got the money, honey, I've got the time," hi. Not to mention it gives the sales department something to sell. Look at all the non-Mutual stations carrying King then plug into Mutual's feed for his show with other Mutual affiliates close by. Maybe I'll get into this in more detail in a later issue, or dig myself deeper, hi.

Anniversary ish next week. See y'all then. OK Seattle, tons of room and no excuse for at least two forums. Go for it. 73 de Rth. . (Since there's no excuse for at least 2 4M's, I won't put in that many, hi. bp)

The Republic of Korea (ROK) government has taken over virtually all broadcasting in the country. Here is the latest on the situation, as compiled by Tohru Yamashita of the Far East Radio Club of Japan, which we thank for making it available.

540	HLCZ	10 K1	Hongseong	891	HLKB	250 K1	Busan	1233	HLQG	1 K1	Yeong-yang
	HLSC	1 K1	Jeonchon	900	HLKV	50 M	Seoul	1242	HLSB	10 M	Weonju
	HLSN	1 K1	Jangsu	909	HL..	10 K1	Gumi	1251	HLKT	10 C	Daegu
	HLSM	10 K1	Jangheung	918	HL..	50 K1	Yeoncheon*	1260	HLHL	10 K1	Namwon
549	AFKN	5 A	Seoul	927	HLDB	10 K1	Buyeo	1269	HL..	10 K1	Yangju*
558	HL..	#250	K2 Yeong-il*		HLQD	1 K1	Hongcheon		HL51	1 K1	Gurye
567	HLKF	100 K1	Jeonju		HLSU	1 K1	Hadong	1278	HL..	1 K1	Habcheon
576	HLKZ	1 K2	Suncheon	936	HLKD	10 K2	Masan	1287	HLAF	10 M	Gangreung
	AFKN	5 A	Munsan	945	HLQW	10 K1	Boeun		HLAX	1 M	Cheongju
585	AFKN	5 A	Daegu	963	HLKS	10 K1	Jeju	1305	HLSV	10 K1	Uljin
594	HLAG	10 K1	Yeongju		HLCR	10 K1	Andong	1314	HLCM	10 C	Iri
603	HLA	#500	K2 Namyang	972	HLCA	1500 SE1	Dangjin*	1323	HLCU	1 K1	Ulreung
621	HLAY	1 K1	Yeongdong	990	HLAP	10 M	Masan		HLQJ	1 K1	Yeong-gwang
	HLCF	10 K1	Seogwipo	999	HLCL	10 C	Gwangju	1332	HLAO	10 M	Chungju
	HLSJ	10 K1	Hwangji	1008	HLCS	#50	K2 Sogcho	1350	HLAQ	1 M	Samcheog
630	HLCY	10 K1	Yeosu	1017	HLAW	10 M	Andong	1359	AFKN	1 A	Osan
	HLSE	5 K1	Inje	1026	HLGG	1 K1	Hwacheon	1368	HLKO	1 K1	Muju
639	HL..	50	K2 Siheung*		HLKW	1 K1	Geochang	1386	HLAM	10 M	Mogpo
648	HL5L	1 K1	Boseong	1035	HLCP	10 K1	Pohang	1395	HLCO	10 K1	Cheolweon
657	HLKM	50 K1	Chuncheon	1044	AFKN	1 A	Chuncheon	1404	HLKP	10 C	Busan
675	HL..	1 K1	Jinbu	1062	HLKQ	50 K1	Cheongju	1440	AFKN	1 A	Gunsan
	HLAS	10 K2	Gunsan	1080	HLAT	10 M	Yeosu		AFKN	1 A	Pyeongtaeg
711	HLKA	500 K1	Sorae*	1089	HLCH	10 K1	Chungju		AFKN	.25 A	Weonju
738	HLKG	100 K1	Daegu	1098	HL5J	20 K1	Jinju		AFKN	.25 A	Masan
747	HLKH	100 K1	Gwangju	1107	HLAV	10 M	Pohang	1449	HLQB	10 K1	Ulsan
756	HL..	100 K1	Suwon*	1116	HL5I	1 K1	Samcheog	1458	HL5H	1 K1	Hamyang
765	HLCQ	10 M	Daejeon	1134	HL..	#250	K1 Gimpo		HL5T	1 K1	Bonghwa
774	HLAJ	10 M	Namyang	1152	HL5W	10 K1	Weonju	1467	HLKN	50 K1	Mogpo
	HLAN	10 M	Chuncheon		AFKN	.25 A	Gwangju	1485	HL5D	1 K1	Gongju
783	HLCV	1 K1	Yeong-weol	1161	HLKU	20 M	Busan		HL5H	1 K?	Goheung
	AFKN	5 A	Busan		AFKN	.25 A	Euijeongbu	1503	HL5K	1 K1	Gimcheon
792	HLKJ	50 RS	Gaebong*	1170	HLSR	#500	SE2 Gimje*	1512	AFKN	.1 A	Gwangcheon
810	HLCT	20 M	Daegu	1188	HLKX	#50	FBS Incheon*		AFKN	.1 A	Jinhae
819	HLCN	20 M	Gwangju	1197	AFKN	1 A	Dongducheon		AFKN	.25 A	Pohang
837	HLKY	50 C	Seoul	1206	HLSW	1 K1	Jeongseon	1539	HL5Q	1 K1	Gosan
846	HLSY	5 K1	Yang-gu		HLQR	1 K1	Cheongsong	1566	HLAZ	#250	FEBC Jeju*
	H5AU	10 M	Ulsan	1215	HL5D	10 K1	Jecheon	1584	HL..	1 K1	Danyang
855	HLCX	10 M	Jeonju		HLAK	10 M	Jinju		HL..	1 K1	Geumsan
864	HLKR	#100	K1 Gangreung	1224	HLAA	20 K2	Gwangju		HL..	1 K1	Sancheong
882	HLKI	20 K1	Daejeon	1233	HL5C	1 K1	Pyeongchang		# DA; *	studios in Seoul	

K1/K2 - KBS networks 1,2. 1: general programs. 2: entertainment/culture
 SE1/2 - KBS social/educational channels
 RS: Radio Seoul - news and living information programs for Seoul area
 FBS/FEBC (1188/1566) - Far East Broadcasting Co. (religious)
 C-CBS. M-MBC. A-AFKN (U.S.Armed Forces).

EASTERN DX ROUNDUP

Bob Lazar

1711 Wainwright Dr.

Reston, VA 22090

Deadlines: Tuesdays 3/23, 3/30, 4/13, 5/11, 6/8 All times Eastern

- 550 KTSA TX San Antonio, 2/21 0010 fair, Albertson's Food Store ad, prize winners in contest, ID. (NR-FL)
600 WREC TN Memphis, 2/21 0125 fair w/ ID. (NR-FL)
640 KFI CA Los Angeles, 2/21 0140 poor, in and out u/ local 620 splatter. End of song "You May Be the One," ID, then m "the Rolling Stones on KFI..." (NR-FL)
680 WMPS TN Memphis, 2/21 0030 o/u WPTF, ID. (NR-FL)
KKYX TX San Antonio, 2/13 0110 good, discount furniture ad, "Rick" w/ ID and intro of C&W. (NR-FL)
710 WOR NY New York, 2/21 0035 xln't to good, "Diamond Jubilee minute", Gil Franklin hosting. (NR-FL)
850 KOA CO Denver, 2/13 0335 poor to fair w/ QRM from LA and once briefly from WYDE. Man w/ wx "36° in Denver...", then talk & callers. (NR-FL)
860 KKOW KS Pittsburg, 2/13 0406 fair, m w/ "country mx in Pittsburg, KS..", then mx. (NR-FL)
KONO TX San Antonio, 2/13 0400 fair, ID then wx: "40° w/ Roger at Cone-Oh in San Antonio", into mx. (NR-FL)
CJBC ON Toronto, 2/5 2240 good, alone on freq, m & f talking in FF. (NR)
920 KARN AK Little Rock, 2/14 2345 good, talk show. Regular here. (NR-FL)
1010 KIKK TX Waco-Marlin, 2/14 0010 fair w/ ID & C&W. (NR-FL) (Nat, this is the correct location for KIKK. The Amarillo station on 1010 is KDJW.--ed)
1160⁺ KSL UT Salt Lake City, 2/21 0255 poor to fair, religious pgm u/ Cuban. Mx & preaching. (NR-FL)
1190 KLIF TX Dallas, 2/21 0255 good in WOWO null. Man: "country eleven-ninety", Emmy Lou Harris w/ "Save the Last Dance for Me." (NR)
1210 WCAU PA Philadelphia, 2/13 1605 fair, more than 2 hours before sunset, nothing else similar in at the time. Two men w/ talk, sports, ID. (NR-FL)
1440 WRRO OH Warren, 2/28 0605 fair w/ sports, wx, ABC "Perspectives." (RAL)
1550 KOKA LA Shreveport, 2/21 0220 good, m w/ ID. (NR-FL)
1560 WYSE FL Inverness, 3/1 1844 poor-fair w/ s/off. (RAL-VA)
WTAI FL Melbourne, 3/1 1830 fair w/ wx, s/off. (RAL-VA)
1570 WPGM PA Danville, 2/28 0630 fair w/ AM-FM ID, rlg's pgm. (RAL-VA)

Eastern DXers

RAL - Bob Lazar, 1711 Wainwright Dr., Reston, VA 22090

(Yaesu FRG-7, SM-2)

NR - Nat Rudolph, 4110 Ohio Av., Tampa, FL 33616 (Welcome!!)

(Sears AM-FM-TV sound)

Broadcasters fear a Reagan ricochet

By Juan J. Walte

WASHINGTON (UPI) — The U.S. radio broadcast industry yesterday gave mixed reviews to President Reagan's plan to finance "Radio Marti," saying the radio waves beamed at Cuba could backfire against hundreds of American stations.

Industry representatives told the House Foreign Affairs Committee the problem centers on Cuba's already serious interference with U.S. stations, which they fear will increase sharply if Radio Marti is established.

The administration is seeking \$10 million in additional money for the current fiscal year to set up the new radio station. It has been compared to the Radio Free Europe operation and would beam news and entertainment in Spanish to Cuba.

Vincent Wasilewski, president of the National Association of Broadcasters, said his group has just completed a study on Cuban radio interference to U.S. stations. "We have some startling projections," he said.

He said Cuba is planning to set up two 500-kilowatt stations, 10 times more powerful than any U.S. station. If that happens, "AM radio stations in 32 states plus the District of Columbia would experience interference and reduced listening areas."

Growing interference

"Altogether," Wasilewski said, "over 200 U.S. stations would be affected."

The committee hearings opened Wednesday, when Assistant Secretary of State Thomas Enders acknowledged that Cuban President Fidel Castro could use Radio Marti as a "scapegoat" to increase the island nation's interference with U.S. radio broadcasts.

Klamann Schaeffer of the Federal Communications Commission's international office yesterday called the growing Cuban interference potentially destructive to many American AM stations. "The choice is stark," he said, "mutual accommodation or chaos."

Schaeffer proposed "the development of mutually agreeable provisions for mutual protection of U.S. and Cuban broadcast services."

Seattle Post-Intelligencer 3/5/82
via Jef Jaisun

WESTERN DX ROUNDUP

Nancy Hardy
2301 Pacific Avenue
Aberdeen, WA 98520

All times are
Eastern Local

Phone for hot WDXR tips: (206)532-6827 till 10:30pm(PLT)--no collect calls
DEADLINES: Thursdays 3/25, 4/1, 4/15, 5/13, 6/10, 7/8

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(BH) Bill Hardy-2301 Pacific Ave.-Aberdeen, WA 98520
FRG-7, SM-1

(WJH) Bill Harms-University Station P.O. Box 7428-Provo, UT 84602
DX'ing at Deer Creek Reservoir, UT w/TRF & 1600' Beverage

(RW) Robert Wien-1309 Dentwood Drive-San Jose, CA 95118
GE long-range portable, SM-2

- *****
- 1220 WGAR OH, Cleveland 2/27 0458 good signal w/PSA's, America Overnight, and ID. First time calls hrd in Utah, Although they did verify a tentative report before. (WJH-UT)
- 1240 KELK NV, Elko 2/26 2100 good way on top w/local spot, ID "K-Elk Country Sports time is six-o'clock," then lost to KDIG. (RW-CA)
- 1250 KUUK AZ, Wickenburg 3/1 2043-2045 C&W mx into s/off. First time since call change. Fair but dominant. (WJH-UT)
- 1260 KCYX OR, McMinnville 2/26 2050-2056 a complete shock. Blowing away everyone in KYA null, coming around KYA somehow (McMinnville & San Francisco in same line more or less from San Jose!) Local high school BKB pre-game show, ID "...brought to you on your sports station, KCYX, McMinnville," suddenly lost at 2056 (pattern change?). New. (RW-CA)
- 1340 KQIL CO, Grand Junction 3/1 0424 in & out of KMAK/KRAM/KBET w/several unreadable local spots, but a clear blip ID "...13-40, KQIL," then lost. New, 1340 #24. A most-wanted. (RW-CA)
- 1390 (KCEY) CA, Turlock 3/1 0306 noted totally off, back on 0530 w/RS.(RW)
- 1400 KIVR OR, Cave Junction Su 2/28 1003-1009 atop w/regional & local rx. 1005 ad for bank in Cave Junction. 1008 1/2 "KIVR rx" ended & into another ad which faded. Good o/KQMS, KNNN, unID SS. (BH-WA)
- 1470 KBXN UT, Tremonton 3/1 0854-0900 a complete surprise, was trying for KSWA when came this one out of the blue way o/KXOA. Several local spots, ID on hour, into local rx, then lost to KXOA/KELA, all in XEBBC null. Remarkably good signal. New. (RW-CA)

UNID's:

- 660 2/27 0100-0230 sounded like a PoP. No ID hrd (although I nodded off a couple times & could've missed something). OC & lots of varying tones. Great signal almost no fading. Suspect KSKY or KCRO. (WJH-UT)
- 1080 KGVY? 3/1 0835 unID EZL way u/a potent KRPX w/KWJJ nulled, KRRL long faded out, KSCO strangely not on yet (changed s/on time?). Never strong enough to ID. This their format? (RW-CA)
- 1340 2/26 2116 u/mess w/Portland Trailblazers BKB. Either KBBR or KIHR, probably the former. (RW-CA)
- 1350 3/1 0700 unID s/on w/hearty SSB, details unreadable completely u/KIDN. May have faded up later w/nuns preaching chants in SS. Possibly KCOR? Do they now s/off or are they still NSP? (RW-CA)
- 1400 2/26 2306 u/KONG w/AZ Wildcats BKB. No one listed on network. KXIV is quite common here, probably them. (RW-CA)
- 1420 3/1 0909 EZL looping north thru terrible KNNTA-1430 slop, in KSTN semi-null, lost to XEXX. Just couldn't hold it. Either KSCR, KITI or KYNG, but who? This EZL was like KABL-960. (RW-CA)

I'm all ready to type a nice big Anniversary Issue WDXR next week! ♥

SAN DIEGO EVENING TRIBUNE

Utility power play rocks the airwaves

DENVER (AP) — There were apologies aplenty after the state's largest utility pulled the plug on three Denver radio stations in an effort to collect a bill for one of the stations — a bill that already had been paid.

"There's no question Public Service Co. made a mistake. We're awfully sorry," Mark Severts, a company spokesman, said yesterday.

A "lack of communications," he said, caused KBNO, KVOB and KDEN to be off the air between 8:30 a.m. and 9:20 a.m. yesterday, Severts said.

All three radio stations have some facilities in a west Denver building owned by KVOB.

KBNO — a Spanish-language station — paid its overdue bill Monday, but word never got out to the utility crew that had been ordered to pull the plug on the station, Severts said.



Avez-vous Votre Foreign Log?

More than 100 pages long, the Foreign Log features information on thousands of medium wave stations in over a hundred countries. This information includes

- Summaries, in frequency order, of the schedules, ID methods, programming, times and locations heard, and other information on the several hundred stations reported to DXM recently.
- Information on hundreds of other stations, gleaned from various other BCB publications.
- Lists of stations in Mexico, China, and South Korea, fully updated as of September, 1981.
- Tables of great circle bearings and distances from Atlanta, Boston, Chicago, Denver, Houston, Los Angeles, and Seattle, to 141 foreign cities.
- Tables of sunrise and sunset times for foreign DXers.
- Lists of foreign stations carrying American Country Countdown and American Top Forty.
- And other useful information.

To reserve your copy of the Foreign Log, send \$5.50 cash, check, or money order to the IRCA Goody Factory, P.O. Box 17088, Seattle, WA 98107. (Non-IRCA/NRC member price: \$6.50)

NRC PUBLICATIONS CENTER

NRC PUBLICATIONS CENTER
P.O. BOX 164
MANNSVILLE, NY 13661

We are pleased to announce that the Board of Directors of IRCA and the Publishing Committee of NRC have reached a mutual agreement that will benefit the memberships of both organizations.

Effective immediately, ALL National Radio Club publications and reprints are available to all IRCA members for the discounted member price previously open to NRC members only. This results in substantial savings on the recently published NRC Canadian/American Night Pattern Book. Also available are the NRC Receiver Reference Manual and NRC Antenna Reference Manual (ideal companion pieces to the new IRCA DXer's Technical Guide), as well as the NRC Domestic Log (fifth edition printed in 1979). This last publication is now available while supplies last for only \$4.00.

In addition to the above publications, all NRC Reprints will be available for the member discounted rate of 10¢ per page. Many top-notch DX related articles from past issues of DX News are now available to update your library on virtually all aspects of the MW DXing hobby.

For a copy of the current NRC Reprints List, just forward your request to the above address along with a self-addressed stamped envelope. The latest NRC Reprint List will be sent by return mail.

The NRC library is available to you at member prices!! Send your SASE.....NOW!!!

THE INTERNATIONAL RADIO CLUB OF AMERICA

A non-profit organization devoted to the hobby of listening to distant radio stations on the AM broadcast band (540 to 1630 KHz). IRCA is a member of ANARC, the Association of North American Radio Clubs.

OFFICERS: President--Don Kaskey, 465 Burnett, Apt. 1, San Francisco, CA 94131. Secretary--Rich Segalas, Board of Directors--Phil Bytheway, Nick Hall-Patch, Ric Heald, Ernie Cooper, Jef Jalsun, Bruce Portzer, Niel Wolfish.

MEMBERSHIP DUES: \$16.50 First Class to the U.S.A., Canada, and Mexico. \$20.00 Air Mail to the rest of the world via Canada. Air mail direct from the U.S. is \$25.00 to Central America, Caribbean, Colombia, and Venezuela; \$30.00 to the rest of the world. Sample copies cost 50¢ each or three International Reply Coupons. Make checks and money orders payable to I.R.C.A. Persons living outside the U.S. should send checks or money orders payable in U.S. funds. DUES AND ADDRESS CHANGES should be sent to Rich Segalas, P.O. Box 26254, San Francisco, CA 94126.

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IRCA

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