



# DX Monitor

Devoted Exclusively to  
Broadcast Band DXing

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Looks like everyone has been out Christmas shopping recently. Judging from the columns during the past two issues. No EDXF this week due to lack of reports. The WDXF in this week's issue is the one intended for last week's DXM (twas sent to the wrong address); no sign of this week's WDXF. No sign of DXWWE, I guess Jim Hall is moving again, hi. On the other hand, Karl Zuk somehow got ahead of himself. Two columns in this issue, and next week's column is already here.

## Odds and Ends

Several people have brought up the subject of when their membership expires. So here goes with an explanation. The address labels are computer generated. Unless you're a new member or have moved recently, your label has been printed with a number in the upper right hand corner. That is the number your membership expires with. This is issue number 15 of volume 23; if your label says 20, then you have 5 more issues to go before it's time to renew. The computer program which generates the labels also generates a message that says "RENEW" when you have less than 5 issues left, and "LAST ISSUE" if it's your last issue of that year's membership. A few members, in the past year or two, paid for two or three years' worth of membership. Unfortunately, they seem to be the only people who read their labels because some of them were a bit alarmed when they saw "RENEW" or "LAST ISSUE" in big, bold letters. Rest assured, it says that only because the computer doesn't know you renewed for two or three years. John Clemmer, on the other hand, knows who renewed for two or three years, so don't worry about it... as far as I know (knock on wood) we haven't dropped anyone for that reason, and we'll go out our way to see that we don't. If you only renewed for one year last time, make a mental note of when your membership expires and/or check your labels once in a while. Now that everyone's thoroughly confused, we'll move on to other things,

DX TESTS ETC. The WSJC-810 test was on the air as scheduled. Nothing at all here, too much KGO with traces of CHQR underneath, but Richard Wood heard them loud and clear in Hawaii. The all-weather broadcaster in Minneapolis, WWTC-1280, has a number you can call if you want to listen to them. Dial 612-338-1280 and you'll hear what they're broadcasting.

We still have some International Reply Coupons for sale here. Send 50¢ for each IRC, plus an SASE with your order, to P.O. Box 21074, Seattle, WA 98115. Also, we're having a clearance sale on left over DXMs from 1985. For \$5, postpaid, we'll send you 25 issues of DX Monitor from 1985. We'll try to include any particular issues you request, but won't guarantee you'll get them. Here's an ideal way to catch up on club news if you've just recently joined.

With another year upon us, let's all make a resolution to report more often in 1986, to DX more often, to write more articles for DXM, and to contribute to the club in every way we can. Remember, we're a volunteer organization, and rely on one another as information sources. Your contributions can help others enjoy their hobby, and their contributions can help you. 73, bp.

# WESTERN DX FORUM

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8539 BELLAMY DR.  
SACRAMENTO, CA 95828 USA

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## 1986 DEADLINES - WEEKLY ON TUESDAY

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

OK, I favor a domestic time standard - either Eastern or Pacific - for WDXR. How about other columns, such as the forums? I'd say use whichever standard fits, and specify it. If you're describing the time you hear an east coast station sign on, and wish to use its time zone (Eastern), fine; or if you describe it in your own time zone (getting up at 0200 to hear it), fine too. If it's overseas DX, and GMT/UTC makes more sense, that's fine. I think Flash Tips and CPC Tests on page 1 should be in Eastern time unless there's a logical reason to use a station's local time. Broadcasting Info and Radio Programming Notes could be in the station's local time if desired. This is also true of feature and filler articles - use a time zone that's logical and specify what it is.

For that matter, why do all time references have to be in 24-hour time? Our club is based in the US, so why not use the preferred American style? I prefer to see dates listed as April 12 rather than 12 April. To me, that date is 4/12 and not 12/4, which is December 4. I have to stop and think that 2000 is 8 PM. Why not just say 8 PM in a conversationally-written forum? I don't have much trouble with 24-hour time between 0100 and 1259, but the rest can be confusing. I'm smart enough to convert, but I have to stop and think, and that's where the chance of error creeps in.

To me, IRCA is number one and AM radio, which is what I grew up listening to in the '60s is also number one. I don't like the term "medium wave," which is used primarily by shortwave DX'ers and listeners and by people overseas. 99 percent of Americans don't even know what "medium wave" means, so I prefer the terms "AM radio" and "AM broadcast band" and I have used those in the IRCA Almanac. I guess those who consider "medium wave" as a secondary hobby might find it convenient to use GMT/UTC all the time. But again, I think IRCA can appeal to more Americans by using an American time standard!

In closing, the way IRCA is handling this controversy is another reason why IRCA is number one with me. In IRCA, we're discussing this openly, and then our elected officials would have to vote before any changes could take effect. In the National Radio Club, a similar time controversy was resolved when the Musings editor decided to go with local times. If you didn't like the decision, you can't vote him out! (That's a big 10-4, Bill, EXACTLY why IRCA was formed 21 years ago-RtH.)

73 and the best of DX in the New Year.

RIC HEALD, 8539 BELLAMY WAY, SACRAMENTO, CA 95828 Tele-Forum (916) 386-8677 to 2200 PLT & opd

Well, looks like the Bill and Ric show this time around, and Bill, you bring up some interesting points.

I'll make this brief: America has decided not to join the world - we are the ONLY country not using metric (even England, Canada, Australia and New Zealand are using metric, albeit with English conversions) and most countries use 24-hour time. We are the INTERNATIONAL Radio Club of America, and as the name implies, should be joining the world community, but for some strange reason, we decide to ignore that fact. Conversion to metric is so simple it's really child's play. When I played host to two DX'ers from Finland, I was converting from English to metric while we were shopping around Eureka looking for boxes, shipping rope and tape to send their Collins home to Finland. No problem. And converting from 24-hour time to, as you put it, American-style time, is simply a matter of adding or

subtracting 12 hours. All bus/train/airline schedules in Europe, Asia, Central and South America run on 24-hour time. Then again I still do algebraic equations by hand; there weren't calculators when I went to school, hi

We've used local time in WDXF for years and no one has really objected to this. There are several time zones covered by this column as long as someone reports using their local time zone (marked as so), no problem. Whatever is best for you is what should be used, just as long as the time zone is identified. A good DX'er should be able to convert to their own time zone easily.

Bill, you and many other IRCAnS are domestic DX'ers and of course, if something foreign should happen to slip in, it's not going to be ignored, hi. But, the vast majority of IRCA members are not foreign DX'ers sitting up listening to hets all night (or morning), so we should use a time standard closer to our own than GMT/UTC. And you're so right, if this were NRC, this discussion would never have happened. That's the beauty of IRCA; I just wish more members would think of this fact when election time rolls around.

DX? Who me? Doing a lot of re-logging, but nothing spectacular. Did notice KQIN 820 now on fulltime with the pre tentious ID, "AM radio like you've never heard, KQIN." Yes indeed, I wish I'd never heard them, hi. The KGD fans in King, Snohomish and Pierce counties must be thrilled, hi.

Happy #86 y'all. I welcome by the way, any and all reports. 73 de Rth. .

BRUCE PORTZER - 6546 19th Avenue N.E. - Seattle, WA 98115

Greetings from the first American radio market with three NSP locals in the 800's. At least I think it is. The Seattle-Tacoma-Everett radio market now has KQIN-820 on 24 hrs a day, joining KTAC-850, and KXII-880, giving us a distinction which New York, Chicago, Los Angeles, San Francisco, Dallas-Fort Worth, and other much larger markets are unable to match. I've often wondered what it would be like to DX in a city like Mexico City or Bogota, with locals every 20 or 30 KHz, and I'm starting to get a flavor of it. Time for another Beverage expedition to the coast, I guess.

Karl Zuk proposed several interesting ideas in the 12/21 DXM. I personally prefer Eastern time to UTC, simply because it's easier to mentally add three hours than to add eight hours to PST (or vice versa). I like the idea of a column on antique radios, but would prefer to see it a little more general, covering other aspects of radio/DXing in the pre war-era (should the column be pre WWII, Korea or Vietnam, hi?). I'll also throw my support towards a computer column. As was discussed several months ago, I don't see any point in printing complete program listings. But I've used computers for radio path analysis (number of hops, location of reflection points, fade-in/fade-out times, distance, bearing, etc.), logbook maintenance, compiling lists, etc. It seems like the most useful functions for computers in this hobby are: 1) compiling and sorting lists of information, such as stations heard, stations needed, and the various lists which appear in DXM & the Almanac; 2) Propagation-related programs, not only some of the theoretical stuff done by Razdy Seaver et al, but statistical studies of when stations have been reported; 3) Antenna design, including calculations of theoretical receiving patterns for Beverage antennas; 4) Word processing, such as writing reception reports, DXM material, etc. On the other hand, I don't think it would be advantageous to have all technical material go through the Technical Editor, or to limit the percentage of space they occupy in any one DXM. As DXM editor, I've sometimes found it difficult to put together some issues, due to the amount and type of material we have on hand. There have been a few times recently when the regular columns added up to less than half a bulletin, and most of the rest of the material was technical articles. Personally, I enjoy reading technical articles and am quite thrilled at the quantity and quality that have appeared in DXM in recent years.

John Arthur's point about presidential candidates (12/14 WDXF) was interesting. My own observation is that we've usually had multiple presidential candidates only when a lot of club members are discontented or there is some other crisis going on. In the last few years, the club has been relatively mellow. We need to stir up a good controversy just prior to the next elections, I guess, hi.

I think I've used up my allotment of space. Report often to DXM in 1986, get your friends to join IRCA, and enjoy your hobby. 73.

BOOK REVIEW: E.H. Scott...The Dean of DX, by Marvin Hobbs

During the 1920's, 30's, and 40's one of the leading and most respected radio manufacturers was a company which bore the name of its founder and president, E.H. Scott. This is a book about the history of the E.H. Scott Radio Laboratories and the receivers it made. It is extremely interesting reading.

The book begins in the early 1920's by describing some of Scott's earlier works in designing and building custom receivers and kits for radio enthusiasts. There were tens of thousands of avid listeners in those days who wanted radios with the latest circuits, those which incorporated the latest circuits or which were otherwise better than those assembled for the consumer market. Mr Scott was one of several who made such receivers. The book also describes some of his DX reception while on an extended holiday in New Zealand in 1925, where he heard North American stations as far inland as Chicago and Cincinnati. I could readily identify with quotes from Scott, complaining about static crashes and announcers who mumbled their IDs.

The book then traces the subsequent rise of the E.H. Scott Labs to a position as the "Cadillac" of radio manufacturers in the 1930's. There are some excellent descriptions of the sets of that era, especially the top of the line models made by Scott and his competitors. The more expensive receivers had up to 40 tubes and tuned from longwave to 50 MHz or so, with some interesting noise reduction, AGC, selectivity, and tuning schemes. Some receivers also had elaborate audio stages; one model had a 50 watt, 3 tube treble amplifier, plus a separate 30 watt, 12tube bass amp. The cabinet work was also quite elaborate, and there were even remotel: controlled radios. Some of the better sets cost in the neighborhood of \$1000, which in the 1930's must've been higher than the cost of some new cars. The radio circuitry is described in relatively simple terms, i.e. tube count and type, plus a description of what they did, so as not to lose the non-technical reader.

Later, the book describes the work done by the author, as chief engineer of the Scott Radio Labs, during the second world war. This included the RBO, used as a "morale receiver" for receiving and distributing radio broadcasts to troops aboard ships, and the construction of a receiver for use aboard the first presidential plane (a C-54 first used by Roosevelt and later by Truman).

The book subsequently traces the decline of the company, beginning with a mid1940's stock maneuver which edged Scott out of the company, through an unsuccessful attempt at marketing television sets, to the company's eventual bankruptcy. It ends with a brief discussion of the H.H. Scott (no relation to E.H. Scott) company, which emerged in the 1960's as a stereo manufacturer.

I enjoyed the descriptions on the radio sets and the business practices of the radio manufacturers of that era, and recommend the book to anyone interested in pre-World War II radios.

The book is available from Puett Electronics, P.O. Box 28572, Dallas, TX 75228 and \$10.95 per copy. It is 168 pages long, paperback, with several illustrations and photographs.

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## Spanish Station to Debut

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By Jacqueline Prescott  
Washington Post Staff Writer

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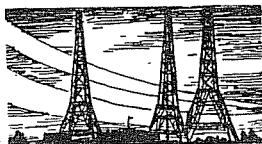
Washington is expected to get its second Spanish language station next week when ILC Corp. completes its purchase of music station WLMD-AM (900).

The new station, which will carry the call letters WILC after its owner, Israel Lopez, is expected to go on the air as early as Tuesday. The Laurel-based WLMD is owned by Mid

Maryland Communications and went on the air in 1965. Pat O'Leary, program director of WLMD, said the 15-member staff had been notified of the change a couple of months ago but had decided to stay until the takeover. "Since 1980 we have been a hybrid of pop, rock and oldies, and we work on a creative presentation," said O'Leary. "The staff is close-knit and we believe in radio for the sake of entertainment."

The area's other Latin news and music station is WMDO-AM (1540).

**EASTERN**



**ROUNDUP**



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

- Season's greetings to these great DXers...and everyone else!! Ho! Ho! Ho!
- (RB-NY) Raymond Bauernhuber, 141-12 243rd Street, Rosedale, New York 11422
  - Panasonic RF-2800, shotgun loop.
  - (JHD-PA) John H. Demmitt, Box A, K0848, Bellefonte, PA 16823
  - Sony ICF-S5W (My apologies, John, for leaving your name off the DXM 23/11 masthead. I didn't notice it until I saw it in print..sorry-kz)
  - (TH-CA) Tim Hall, 350 G Street, F-1, Chula Vista, CA 92010-4559
  - (The WBEN mascot is the buffalo...the envelope was very funny-kz)
  - (RCR-PA) Robert C. Ritchey, R.D.#1, Box 738, East Freedom, PA 16637
  - DX-160 and 150 foot longwire.
  - (WPT-DC) William P. "Bill" Townshend, 4500 Connecticut Avenue NW #901, Washington, DC 20008...DX-160 and Realistic Portavision portable.
- \*\*\*\*\*
- 540 CJSE ON, Ottawa. 10-28 0140 Poor to fair with music of your life format. (RB-NY)
  - 550 WDUN GA, Gainesville. 12-3 1728 Sports, weather, ID, ad for Midas muffler, good. (RCR-PA)
  - 550 WDRV NC, Statesville. 12-03 1713 Local weather, ID "on WDRV" by man, mention of Signal Hill, local ads, fair to poor. (RCR-PA)
  - 560 WPIL PA, Philadelphia. 12-5 0100 Fair with Bruce Williams on Talknet. (RB-NY)
  - 590 WPLO GA, Atlanta. 12-3 1705 Music by Alabama, ID by man, female caller, then back to music. Good to very good. (RCR-PA)
  - 630 WBMQ GA, Savannah. 12-3 2059 Rock oldies, ID "WBMQ Savannah," Good. (RCR-PA)
  - 680 WRKO MA, Boston. 12-8 2300 Good with Chorus singing "W-R-K-0" jingle and news. (JHD-PA)
  - 680 WPTF NC, Raleigh. 12-6 2300 Good, with time tone off three seconds, hum that was on this frequency left at 2300:20. News. (JHD-PA)
  - 730 CHYR-7 ON, Leamington. 12-8 2250 Good with man IDing as "CHYR Leamington." Record "I'll Come Before Ya." (JHD-PA)
  - 750 WSB GA, Atlanta. 12-8 0045 Strong signal with Sunday night sports talk. (RB-NY)
  - 760 WJR MI, Detroit. 12-8 0030 with "Stories of Christmas", mention "Shop in historic Plymouth, MI," rock music, soul music. Strong signal. (RB-NY)
  - 820 WBAP TX, Fort Worth-Dallas. 12-5 2350 Good with trucker show, ads for radar detectors and CBs, Sanderson Restaurant, ID jingle, music. (JHD-PA)
  - 840 WHAS KY, Louisville. 12-8 0055 Strong with "American Top 40", news, sports, and weather. (RB-NY)
  - 890 WLS IL, Chicago. 12-5 0145 Fair with interference. Jeff Davis with The Classic Rock Hour, Algonquin Mills ad. (RB-NY)
  - 900 CHML ON, Hamilton. 12-5 0125 Good with weather, Bruce Spingsteen record, Tiger Cat ad. (RB-NY)
  - 920 WMEL FL, Melbourne. 12-6 2139 Local ads, mention of Melbourne, ID "WMEL", into talk show. Fair to good. (RCR-PA)
  - 950 WGTA GA, Summerville. 12-3 1700 Weather, ID "95 Country is WGTA, Summerville," Fair to good. (RCR-PA)
  - 950 WPEN PA, Philadelphia. 12-5 0115 Fair with Perry Como, Glenn Miller, Sinatra, etc., plenty of ads, snow report. (RB-NY)
  - 1030 WBZ MA, Boston. 12-8 0120 Call-in show with "Lavelle", conversation with Sanford Unger, author. (RB-NY)(Maybe brother of Felix?-kz)
  - 1080 WEEP PA, Pittsburgh. 12-7 0710 Fair with ID "WEEP America's Most Favorite City," Weather, Dean Witter ad, C&W music, KRLD, Dallas, TX interfering. (JHD-PA)
  - 1080 KRLD TX, Dallas. 12-7 0713 Poor with news, references made like "Here in Texas," weather, news read by man. (JHD-PA)
  - 1090 WENR TN, Englewood. 12-2 1730 Sign off by man, no SSB, poor under WBAL, Baltimore, MD. (RCR-PA)
  - 1200 WOAI TX, San Antonio. 12-6 2335 Good with ad for Weber Paint Sprayers and special program for the WOAI Elk Louise Fund drive. Woman was introducing guest stars in the studio. (JHD-PA)
  - 1200 WAGE VA, Leesburg. 12-5 2320 Good with Crystal Gayle "Don't it make my brown eyes blue," ID by woman, weather. (JHD-PA)
  - 1210 WCAU PA, Philadelphia. 12-8 0140 "News-Talk Radio", ad for Brandywine Hospital. (RB)



More Season's Greetings from  
Eastern DX Roundup...  
Stay Tuned!!

**WSTC** 1400 AM



12 Days of Christmas

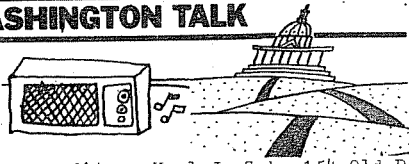


To all the Eastern DXers...and all the others too!!...HAVE A COOL YULE!!!

- 1270 WHLD NY, Niagara Falls. 11-13 0800 ID by man, gospel format. Fair to good. (WPT-MD)(DXing at his place of work in Maryland-kz)
- 1270 WHEO VA, Stuart. 11-15 1600 Clear ID by man, fair. (WPT-MD)
- 1280 WADO NY, New York. 12-3 2300 Fair with woman singing ID jingle "WADO". News and music. In Spanish. (JHD-PA)
- 1370 WTAB NC, Tabor City. 11-26 1714 Sign off by man, excellent. (WPT-DC)
- 1370 WMGO MS, Canton. 11-11 0400-0430 DX test NOT heard. (WPT-DC)
- 1450 WMOH OH, Hamilton. 12-4 0012 Tentative logging with partial ID by man before sinking into the graveyard pile. Music of Your Life. Fair, with WOL, Washington, DC, off the air. (WPT-DC)
- 1480 WRDW GA, Augusta. 12-2 1835-45 R&B music, ID "WRDW" by man, all request hour, promo for station contest, ID:"The station where the winning is just beginning-WRDW." Mostly very good with intermittent fading. RCR-PA)
- 1570 WNCA NC, Siler City. 12-2 1800 Sign off by man, no SSB, fair. (RCR-PA)
- 1580 WJIK NC, Camp Lejeune. 12-2 1716 Sign off by man, no SSB, excellent. (RCR-PA)
- 1580 WUIV NC, Icard Township. In DXM #727, Karl Jeter had an UNIDthere. Tim Hall writes that the station Karl heard is WUIV, owned by Unifour Broadcasting, hence the calls WUniIV (roman numeral four). Tim caught that in NRC's DX News or somewhere. Thanks for writing, Tim! (TH-CA)

Thanks to everyone who has made this year an interesting, informative and great one for this column. Join the crowd as your New Year's resolution!! Send in your loggings soon!! Merry Christmas and Happy New Year everybody!! - Karl and the cats.  
 \*\*\*\*\*

## WASHINGTON TALK



DEE CEE DX ROUNDUP (formerly known as Eastern DX Roundup!)  
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This week's District of Columbia residents:  
 (GS-DC) Gardner Smith, 1000 Perry Street, Wash.DC 20017..Sony 2010  
 (WPT-DC) Bill Townshend, 4500 Conn. Ave.NW, #901, Wash.DC 20008..Portavision 10520..Superadio..

and your editor..Karl J. Zuk, 154 Old Post Road North, Wash. DC 10520..Superadio..  
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- 840 CHUR ON, North Bay. 12-9 2000 Smitty called to say he got it. (GS-DC)
- 850 WRMR OH, Cleveland. 12-9 0752 Fair with ID by man. Ex-WJW. (WPT-MD)(at work)
- 860 WBGR MD, Baltimore. 12-15 2240 Slogan:Baltimore Gospel Radio. Now operates 5 am to midnight, former daytime only. (GS-DC)
- 900 WLMD MD, Laurel. 12-16 (no time) By the time this column hits the mail, WLMD will be down at the glue factory after a twenty year run. WILC will sign on this week and will be in Spanish. WILC stands for Israel Lopez Corporation; it's DC's second Spanish speaker, WMDO-1540 is the other.(GS)
- 940 WMIX IL, Mount Vernon. 12-15 2250 Sung ID. Old rock. Last heard 9-23-81. 500 watts at night, maybe more now. (GS-DC)
- 1030 KCTA TX, Corpus Christi. 12-15 1815 Christmas carols, then radio drama about James Montgomery (English Hymn writer ca. 1825). Xcellent in null of WBeeZee, Boston, MA. (GS-DC)
- 1070 WIBC IN, Indianapolis. 12-9 1608 with spot for auto dealer, weather. Good.(WPT)
- 1110 CKJD ON, Sarnia. 12-8 1708 Spot for Paradise Cafe. Fair under WBT, Charlotte, NC. (WPT-DC)
- 1420 WVOT NC, Wilson. 12-11 1652 with furniture store spot, ID by man with mention of Wilson. Fair to good, #25 on 1420. (WPT-DC)
- 1570 WFGN SC, Gaffney. 12-9 1715 Mention of news, sports, and weather, by man and ID. Fair. (WPT-DC)
- 1590 WAKR OH, Akron. 12-8 1546 with Browns-Seahawks football game. Fair. (WPT-DC) and would you believe my only new logging this week was:  
 780 WABS VA, Arlington. 12-20 1620 with nice christmas carols, ID "Sunlight 780, WABS, Arlington, VA," into "Shepherd's Table" religious show. Good. (KZ-NY)

And that is all! Everyone must be out Xmas shopping! Where is everybody? Anyway, this week, I hope you have a sense of humor, and will make a New Year's resolution to send in your loggings! Also, as a limited trial, if you wish, send a clear photo of yourself, preferably black and white, and no bigger than 2X2 inches, and I'll feature one a week in the column, so you can see what each other looks like! If they transfer well, it will be fun, if not, we tried! Happy New Year! 73s DC kZ.  
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# CENTRAL DX ROUNDUP

Robert Kramer  
6416 N. Richmond  
Chicago, IL 60645

UNDEID, SPECIAL, CHANGES, et. al.

- 531 POE ?? ??? 12/22 0111 poor aerobeacon w/CW IDs, looping east-west. RK-IL  
560 WIND IL CHICAGO, was silent from 1400 on 12/12 to sometime on 12/16, then went SS. RK-IL, on w/SS format 12/16, noted w/pop mx & "La Tremenda" IDs. Still uses WIND ID over the hour. EE WIND went off 1402 12/12. KDF-IL, 12/12 went al SS today (wrong, ed.) having been sold to KGBT/Tichenor Spanish Media of Texas. Larry King moves to WFYR-PM. DP-HI
- 630 KXOK MO ST. LOUIS, 9/23 adds Larry King. DP-HI  
690 WTX LA NEW ORLEANS, 9/9 adds Larry King. DP-HI  
930 WBYG IL SANDWICH, 12/22 1100 very poor in WJPC slop w/what sounded like EZL mx & ID. CP is on. RK-IL
- 990 WNOX TN KNOXVILLE, 10/28 adds Larry King. DP-HI  
1240 WEKR TN FAYETTEVILLE, 11/18 adds Larry King. DP-HI  
1370 WLTH IN GARY, noted w/s/off 0100 12/16, anncd s/on 0700. KDF-IL  
1400 KTFS TX TEXARKANA, 9/2 adds Larry King. DP-HI  
WJJK WI EAU CLAIRE, 9/9 adds Larry King. DP-HI  
1490 WFX KY MIDDLESBORO, 8/26 adds Larry King. DP-HI
- All da Rest
- 560 WQAM FL MIAMI, 12/13 0010 fair w/C&W mx, promo. KDF-IL  
WGAN ME PORTLAND, 12/15 1900 poor in & out w/KLVI, AM- FM ID noted then gone. RK-IL  
KWTO MO SPRINGFIELD, 12/12 1819 fair w/ads, ID, nx, best signal in WIND absence, o/KLZ. KDF-IL
- 610 CKYL AB PEACE RIVER, 12/3 0830 lcl nx & wx, lcl spots, poor. NJW-MB  
710 KIRO WA SEATTLE, 12/3 0827 TC, wx, ID & lcl nx, poor no WHB or KNUS. NJW-MB  
930 KKIN MN AIKEN, 12/8 1718 fair w/PSA, ID & mx. KDF-IL  
1020 KWIQ WA MOSES LAKE NORTH, 12/3 0858 suprise o/KDKA w/Adcon, ID, Mutual nx. NJW-MB  
1030 UNID 12/7 0751-0816 someone strong w/SS OM ancr & Latin American mx, at one point ment. Waupaca, WI. NJW-MB
- WMIN MN MAPLEWOOD, 12/8 1650 good w/spot, ID & C&W mx. RK-IL  
1230 WDJO OH CINCINNATI, 12/12 0001 good w/ID. RK-IL  
1430 WLVS TN GERMANTOWN, 12/21 0700 fair w/s/on, WEEF on late. Ment. 2500 watts daytime, so apparently is not yet fulltime. RK-IL
- 1530 WMBE WI CHILTON, 12/8 1659½ fair-good thru WKDC/WCKY w/Polkas & ID. RK-IL  
1550 KMJO MO ST. JOSEPH, 12/7 1900 ABC nx after ID, pop mx, fair w/KQWB. NJW-MB  
1570 KLOW CO LOVELAND, 12/7 1947 still on the air w/adcon mx & IDs by OM. NJW-MB  
KWGC IA WEBSTER CITY, 12/7 1857 contest promo, ID ment. FM 96, lost to WKBH. NJW-MB  
WKBH WI HOIENEN, 12/7 1900 fair w/s/off w/CKTA. NJW-MB

HARMONICA RED's OKIE OILERS

KDF... Karl Forth 2714 N. LeClaire Chicago, IL 60639  
(HQ-160, IC-R70, Loop)  
RK.... The red head mouth organ man  
(R-1000, HQ-129X, Radio West Loop, Kowalski Loop)  
DP.... Dale Park 2253 Kanealii Ave. Honolulu, HI 96813-1345  
(TRF, ICF-6700W)  
NJW... Niel Wolfish 31 Southlawn Stroll Winnipeg, MB R3T 5E9

There was no CDXR last week because I didn't get any reports. There will be no CDXR next week due to the 16th annual CADX get together.



**GRUPO 2018**

EL MAS MODERNO Y DINAMICO CONCEPTO DEL RADIO

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**13-90-22**  
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## DX ROUNDUP

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Eastern Local

Phone for hot WDXR tips: (206)532-6827 till 10pm(PLT)

### DEADLINES: Tuesdays

#### REPORTERS FOR THIS ISSUE:

- (JH) Jim Hilliker-1135 N. Mayfair Ave. #2-Anaheim, CA 92801  
Kenwood R-1000, Radio West loop
- (5P) Dale Park-2253 Kanealii Ave.-Honolulu, HI 96813  
Sony ICF-6700W
- (bp) Bruce Portzer-6546 19 Avenue N.E.-Seattle, WA 98115  
HQ-180A, Racal RA-17, Radio West loop
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2
- (JW) Jack Woods-P.O. Box 1003-Waldport, OR 97394  
Barlow Wadley XGR-30, Martens loop

\*\*\*\*\*

#### OF SPECIAL INTEREST:

- 820 KQIN WA, Burien-Seattle now on at night. First noted as such 12/11 2140 w/usual ho-hum pop format. Not sure of sked, but Jaisun heard 'em s/on 12/11 0830, announcing power as 50/5kw. (bp-WA)  
?KQIN?+12/16 0155, 0243, 0916 presumed one w/rr mx fading o/WBAP at these times, seemed to be off after 0300, but didn't seem to have the "Starstation" format, not // KFXD-580 which is also listed as a Starstation affiliate. Did KQIN drop their affil.? All alone at 0916, surely not KCBF (they're C&W). Will count as tent. until I get a sure ID. (RW-CA) (Bill says they dropped the Starstation format when they went fulltime.--NH)
- \*\*\*\*\*
- 560 KSFO CA, San Francisco 11/13 0440 C&W mx, man w/TC "19 before 2 o'clock on 5-60 KSFO." Songs "Eleanor Rigby," "Kisses Sweeter Than Wine," & "Walk Right In," talk by man, promo for ski workshop, PSA for handicapped workers, jingle & folk mx. Poor to fair w/KIPO-570 QRM and het from Fiji-558. (5P-HI)
- 600 KLZZ CA, San Diego.12/17 0655 fair w/talk show, ID, into nx. CJOR nulled. New. (JW-OR)
- 710 KIRO WA, Seattle MM 12/16 0455 fair w/QRN. Sounded like C&W inst. mx, then ID & promo by man "...a Cairo (or "KY-ro") morning to you, we keep you up-to-date with sports-talk and commentary, twice each hour. Join us on KIRO, Seattle." Haven't heard in 2 or three years. KMPC SP ended at 0500. (JH-CA)
- 730 KTOX ID, Boise 12/12 1005 fair w/ID, nat'l nx, Idaho wx. New. (JW)
- 790 (KABC) CA, Los Angeles 12/16 0354 totally off, KGHL/unID SS (XERC??) in. (RW-CA)  
+MM 12/16 0503 noted off the air. (JH-CA)
- 830 KNCO CA, Grass Valley add my name to the list, hi. First heard 11/29 0200 w/pop mx, AM-FM ID, ABC nx, 0205 local wx & more pop mx. Fair o/u WCCO. (bp-WA)
- 890 KDXU UT, St. George-NY, Las Vegas SM 12/9 0709 finally heard after several tries w/sports, ID, rock mx, thru KIXI-880 splat. (bp)  
(KDXU)+MM 12/16 0230 noted off the air. Will this be a reg. SP? I hope so. Just WLS w/ID and talk show. (JH-CA)
- 900 KBIF CA, Fresno 12/13 2025-2030 poor-fair in XEW null. End of Thru The Bible, promo by local announcer w/ment. of "across from the UA Movie in Fresno," ID "This is KBIF, Fresno, time is 5:30, currently 430." Into relig. tape. Called stn, they told me they were on PSSA power of 31 watts! I had them double-check the xmtr twice, still came up w/31 watts, powered down from 1000w at 1945. I find this incredible, 'cause the tape sounded as if they were using 1000w, so I was skeptical. I'll send them a taped report. (JH-CA)
- 910 KPOF CO, Denver 12/13 2000 nice legal ID in KNEW null o/KFYI. Christmas mx, then ID "24 hours each day, this is Christian radio 9-10, KPOF, Denver," into taped program. Only heard two other times back in the '82 & '83 DX seasons. (JH-CA)
- 920 KQEU WA, Olympia 12/12 2002 weak w/Olympia wx, ID, nx. Also heard 12/14 0445 w/ID "KQ-92, Where the Winners Are." New. (JW-OR)
- 950 KAHI CA, Auburn 12/16 0845 while trying for KR5B, noted KAHI on air w/sports, ment. of going "24 hours on Jan. 1," currently "on till midnight." I don't have a night CP listed for this one! When was this granted? (RW-CA)



- 950 ?KRSEB? OR, Roseburg 12/16 0904-0906 heard "Roseburg" twice, then CNN nx u/KAHI at 0906. However, per call to station, they're not on CNN network (No one is per new IRCA Almanac) and they don't have a YL anncr. in the morning! Maybe I heard an ad?? Or perhaps the person I talked to on the phone was mistaken??
- 980 KUPI CA, Ammon 12/13 1947 fair w/spot for Furniture Fair, other local ads, C&W mx, ID on the hour, into nx. New. (JW-OR)
- 1024 KJR WA, Seattle 12/8 0715 parasitic here // 876/950. (bp-WA)
- 1030 KHWY CA, Folsom MM 12/16 0304:30 out of UPI nx, fighting KTNQ-1020 slop, wx for N. Calif., "a foggy 31° at KHWY," into promo about Christmas by KHWY nx director, ment. sponsored by Folsom Police Dept. Into C&W mx. KTWO off. Poor-fair. (JH-CA)
- \*KTWO\* WY, Casper 12/16 0247 w/OC o/KHWY. (RW-CA)  
+MM 12/16 0445 OC, TT's, ID "KTWO, on the air testing." More TT's. (JH-CA)
- 1100 KFAK CA, San Francisco 12/6 0233 heard KFAK fading in early w/an unusual show, the "Menerith-Myer Clinic Show" w/two Christian psychiatrists taking phone calls. Poor signal, w/het and local QRM, deep fades. (5P-HI)
- 1120 KPNW OR, Eugene-Springfield 12/6 0243 heard "Part-Time Lover," woman w/ID, soul-MOR mx, promo, and Seals & Crofts' "Humming-bird." Poor to fair w/spur QRM, QRN. (5P-HI)
- 1150 (KGNW) WA, Seattle off 12/8 0727. Only a weak jumble due to auroral cx. Looks like SM SP is regular. (bp-WA)
- 1170 \*KOHO\* HI, Honolulu 12/1 0507 noted on w/OC w/"splattering noise" on it instead of SP. (5P-HI)
- 1280 KQAK OR, Eugene 12/14 2210-2215 very surprised to hear this, gave up on it after 3 years of trying. Heard Big Band mx on top in KFRN null, then mixing w/KJOY. Nice ID by man after song "The best years of your life, all weekend, on the new AM 12-80, 'quack' KQAK. All your favorite songs on a solid gold weekend, it's 12-80 'quack,' K-Q-A-K." Into MOR mx, w/KJOY on top soon after. Had to go back to a DXM in August to see it was a call change, ex-KYKN. Never heard here. New, OR #27, total 562.(JH)
- KTOL WA, Lacey 12/7 2300 fair w/C&W mx and ID. KIT wiped out by aurora. (bp-WA)
- 1400 KAAP CA, Santa Paula-Ventura heard now using slogan 14-K, and at legal ID "Classic rock 14-K, KAAP Santa Paula-Ventura." Still oldies. (JH-CA)
- 1530 KFBK CA, Sacramento MM 12/16 noted AN this MM, so perhaps their SP on MM was just temporary??? (RW-CA)
- 1610 ?TIS? ?? 12/15 0423 recorded message, male voice, very weak, ment. the dam, power house, lake. Tentative for KNA 787, adjacent to The Dalles Dam, on the Columbia River, The Dalles, OR. Over another TIS, not readable, female voice. (JW-OR) (Could also be Chief Joseph, heard often here.--NH)

Dec. f/c tentatively heard:  
2nd MM 0210-0220 KVOW-1450 WY (RW-CA)

UNIDS:

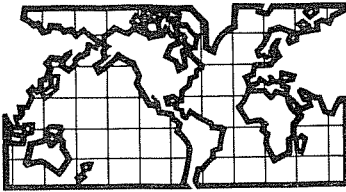
- 770 12/16 0337 unID C&W very strong in KOB null, WABC in background. Off promptly at 0345. KATL or KXA ET? (RW-CA)
- 1150 12/5 0602 bits & pieces of "Hurt So Bad," "Love Theme From 'St. Elmo's Fire'," and then C&W mx during rapid fade-in, plus talk by male DJ, spot. KIIS or KBAI? Very poor signal. (5P-HI)

Since this is Christmas week, it looks like everyone is out playing Santa, and too busy to DX! ♡

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DX WORLDWIDE - WEST

Pat Martin - Editor

P.O. Box 843, Seaside, Oregon 97138

PHONE: (503) 861-3185

I hope everyone had a Merry Christmas and the best DX in 1986. I would also like to thank all who sent Christmas Cards to me and I hope you have received your cards by now. Only a short report this week:

DX REPORT FROM HAWAII:

- 550 HAWAII, Wailuku-KMVI 10/28 now carries the Lary King Show from 0800 1300 (except Thurs. 0700-1300). 5P-HI)
- 710 t CUBA, 5S with Rhumba mx, w/so me cut-ins by ancr. Some second-hand info from a KSL-1160 eng. says he hrd there's a Cuban station jamming WAQI (ex WCBS) on 710. Poor at 0855 11/11. (5P-HI\*)
- 738 U.S.S.R., Site unlisted in WRTH at 1028 on 11/11. Some type of Drama w/dialong and mx //6190 SW (Mayak) and also 7390 USB SW. Poor with het de KRTH-740 (5P-HI6)
- 747 JAPAN, Sapporo-JOIB NHK2 at 1034 on 11/11 EE lessons, poor. (5P-HI6)
- 800 NETHERLAND ANTILLES, Bonaire-TWR at 1035 on 11/11 Big Band program w/ ancr poor w/presumed XEROK in back, het QRM (5P-HI6)
- 1008 U.S.S.R., Magadan-Radio? vy poor RR Drama //738 on 11/11 at 1028 (5P-HI6)
- 1080 HAWAII, Honolulu-KWAI-10/25 at 2210, noted off the air again, per call station went off sorting out legal problems. (5P-HI) (I noticed they were still off on 12/13 when I left Kauai. PM)
- 1170 REPUBLIC OF KOREA, KBS Social Education II, Seoul at 1143 11/18 man and woman in conversation in JJ, mx interlude, sports report // 6175 SW Vy poor, QRM from static (5P-HI)
- 1476 U.S.S.R., Radio Moscow Relay (Vladivostok) 0846 11/11 Angry sounding talk by man and woman Poor. QRM de KWIZ-1480 (5P-HI\*)

THANKS TO THIS REPORTER:

- 5P-HI DALE PARK-2253 Kanealii Avenue-Honolulu, Hawaii 96813-1345  
Sony ICF-6700W
- 5P-HI\* DXING 7-Eleven Store, Ka'a'awa w/Sony ICF-6700W
- 5P-HI6 DXING West Kailua w/Sony ICF-6700W

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FOR SALE DRAKE SPR-4 recv in very good condx. Has xtals to cover LW, MW & all major SWBC bands. A.C. powered - also has optional D.C. power cord and manual. Performs well on medium wave- Has 1 Khz

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 Neil Wolfish - Apt 706 - 3900 Young st - Toronto, Ontario - M4n  
 3n6. Or call prepaid 416-489-7307 to 2200 ELT. (see below)

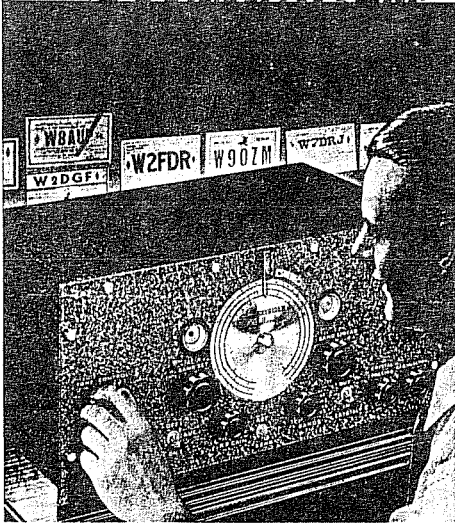
**WANTED** MILITARY SURPLUS 8G-348-Q receiver for my collection. Must be  
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 good condition, will negotiate. Joe Coleman, 157 Walton Place,  
 Lansdowne PA 19050. 215-626-3376.

new addresses: Jim Hall - 2687 Myrtle Street, Apt 2 Rear - Erie PA 16508  
 Niel Wolfish, 31 Southlawn Stroll, Winnipeg, MN R3T 5E9

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## ANOTHER LOOK AT AM STEREO

By Albert S. Lobel

AM stereo has been out for quite some time now and has become known to the vast majority of the general public and to most DXers. A lot of controversy has surrounded AM stereo and a lot of misconceptions have also been made about AM stereo. Some of these are true and some of these are not true. This article will attempt to deal with this controversy and misconception about AM stereo.

The most important thing that must be realized about AM Stereo is that it is much different from FM stereo. There is only one format of FM Stereo while there are several formats of AM stereo. None of the AM stereo formats are compatible with one another directly. In order to receive more than one format of AM stereo you must either have a receiver for each of the individual formats or one receiver that is capable of receiving all of the formats in one receiver.

This DXer has an AM stereo receiver that is capable of receiving all the major formats of AM stereo: Harris, Magnavox, Motorola, and Kahn. The receiver is the Sony SRFA100. There is an A/B switch on the side that when set to the "A" position will enable the receiver to decode all systems except the Kahn system. The receiver will decode the Kahn system only when the switch is set to the "B" position. It will not decode any other systems when set to the "B" position. It is not very difficult to tell which position the A/B switch should be in to receive the proper decoding of the stereo signal. If you have the A/B switch in the wrong position, the sound will become very distorted when you are receiving an AM stereo signal.

The Sony SRFA100 AM stereo receiver is very small and very compact. It will operate either on three penlight batteries or on AC current with the optional AC adapter. It has a headphone jack which can be used as an output jack to a large stereo amplifier. It is highly recommended to use a larger stereo amplifier for better sound quality and for better stereo separation. The small speakers in the radio do not allow for very good stereo separation. They are too close to each other. The controls are very logically laid out. They are from left to right: the on/off switch, the volume control, the tone control, the selectivity switch, and the AM/FM switch. For best AM stereo, the selectivity switch must be set in the wide position. On the other hand, when set to the wide selectivity position, the receiver is not a very good DX receiver.

In the area of my QTH, there are several stations that broadcast in AM stereo. One of these is KFMB-760, which uses the Harris system. The sound of the AM stereo signal is very good and does not interfere with the mono signals in any way. Almost all of the broadcasts over KFMB are in AM stereo. All of the San Diego Padre home baseball games and some of the away games are in stereo. When they broadcast the game in AM stereo, it sounds almost as good as when you are in San Diego Stadium. I have heard baseball games broadcast in stereo over FM stations before. The sound when AM stereo is used is just as good as when FM stereo is used.

Another station near my QTH that uses the Harris system of AM stereo is KFI with transmitter about 110 miles to the north. The quality of the AM stereo signal, even at this distance, is very good with no drift as is often experienced with FM stereo signals over the very same distance.

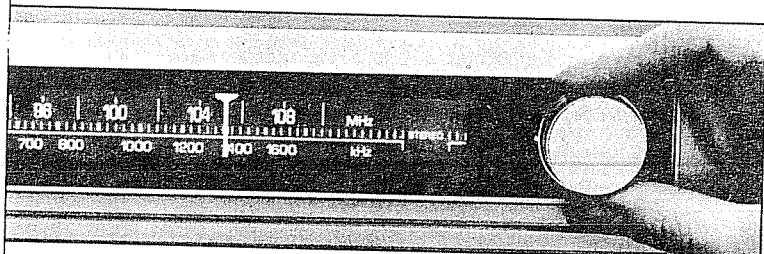
XETRA in Tijuana, B.C. Mexico uses the Kahn system of AM stereo and has been doing so since the very early 70's. They have been doing so lately as well but not on a regular basis. The quality of the stereo signal is not as good on the Kahn system as on the Harris system used on KFMB & KFI. Even on the mono signal, there is some distortion of the sound. I am not referring to when XETRA runs the Mexican National Hour as they do every Sunday night; but even to the daily broadcasts. XETRA beams most of their signals into the United States and is aimed at the Los Angeles market so they put a rather potent signal into San Diego. It is my opinion that of the two systems the Harris system is the best of the two by far!

The only other station that I have been able to hear in AM stereo is KBOI

in Boise, ID. I do not know the system used by KBOI. All I can say is that the quality is not as good as KFMB & KFI. However, it could be the distance the signal has to travel to reach my QTH from Boise. I cannot say for sure on this one.

My overall opinion of AM stereo is that when listened to with a good stereo amplifier, it can rival the quality of a good FM stereo signal. I have made this offer before, any DXer interested in hearing any of my locals (KFMB KFI or XETRA) in AM stereo is most welcome to send me a C90 cassette with return postage and I will gladly record forty five minutes of any two stations in AM stereo. Please, no cheap cassettes as my recorder is a professional machine and I do not use cheap cassettes. You can send either regular ferric oxide or CrO2 oxide in any brand of good quality. Please be patient as this will be done in my spare time, which is usually at a high premium. Send your tapes to the following address:  
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EDITED BY  
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2614 JACKSON STREET  
SAN FRANCISCO, CA. 94115

## TRANS-PACIFIC

**AUSTRALIA** - 4AY-963 is now 24h on 891kHz (TBI in NZDXT). 4CC-927 Gladstone and its co-channel translator are now "the new 93, 4CD" (R. Crawford, DXA). New network names: R. National (ex-R2), R. Metropolitan (ex-R1) and R. Regional (ex-R3) (J. Ewens, ADXN). 2CS-639 (not 2CR) "AM stereo 64" is on from Coff's Harbour (M. Francis, ADXN). The S. A. State Emergency Service, Truro-1125 with 100w tested in October. This would go in to use by an existing (commercial?) station if an emergency took place which cut it off the air (R. Chester, ADXN).

**ALASKA** - KYUK-580 is now on 640kHz, 10kw U1 (Robert Wien, IRCA). KTNX-1080 Anchorage has requested KASH (Broadcasting). New-910 Galena granted KIYU. KIAM-1270 Nenana has a religious format. Another new grant is Unalakleet-930 2500w U1 (Starr, NRC).

**BELAU** - WSZB-1584 is now 10kw; sked is M-Sat 2100-1500, Sun. 2200-1400 (DXA via FERC)

**CHINA** - Guiyang PBS (Guizhou) is on 999kHz. Hangzhou PBS is on 954kHz. Wenzhou PBS has been heard on 676kHz (T. Gima, ABI via FERC). Guangdong PBS lists 648/808/828/783/1017 as // at s/off (H. Fujita, FERC). Xinjiang PBS-900 (Kazakh) hasa moved to 1107kHz to get away from Alma Ata (Olle Alm, FERC); replacing it on 909kHz is a the Mongolian service, ex-1593 (O. Alm, ARC). A new KK service of Yanbian PBS has been heard on 585kHz; it is // to 1206 and drifts down to 581kHz (K. Nishida, ABI & H. Fujita, both via FERC). Heilongjiang PBS-873 has KK 0900-1100 (M. Okama, FERC).

**FIJI** - the new 990kHz outlet is all Hindustani (Robin Chambers, NZDXT). (In another issue, it is stated that this is to be used only on special occasions - pt)

**HAWAII** - KAIM-870 has reapplied for 10kw U1. (The 50kw DA rig, as I recall, is on Molokai, and they have had some problems getting enough consistent power to run it - PT). In a later report, Jerry corrects this to 100kw (Starr, NRC). KWA1-1080 is silent again (Dr. Wood). This is a bit old, but Glen L. Ziegler, Jr. dba Orchid Isle Electronics answered Swedish DXer Stefan Wikander's report and in it, claims to do the engineering for both KHLO-850 and KIPA-620 (ARC).

**IRAQ** - Tanaf-1377 is 1000kw. Nasiriya is 300kw on both 846 and 1224 (EBU via ARC).

**KIRIBATI** - R. Kiribati-846 is drifting; heard on 841 (A. Cushman's DX World)

**KOREA, SOUTH** - CBS schedules: HLKY-837 Seoul 2000-1700; HLCI-999 Kwangju 2000-1540; HLKT-1251 Taegu and HLCM-1314 Iri 2000-1500; HLKP-1404 Pusan 2000-1800 (T. Yamashita, ABI via FERC). HLAZ-1566 has GG 1600-1630 Sat. and Kazakh 1715-1730 Tue. (Bill Harms, K. Nishida, Y. Kato, FERC). Muihwa BC skeds: HLAJ-774 2000-1615 (2000-1500); HLCT-810 2000-1800 (2000-1700); HLAJ-1287 2000-1600 (2000-1615); HLAQ-1350 2000-1600 (2000-1530) (ABI via FERC)

**LAOS** - the Russian built 150kw XR on 580 is on the air (FERC).

**MICRONESIA** - WTFI-1500 1kw is ex-1584; sked is 2000-1400 (DXA via FERC). Ponape is now Pohnpei; the native language is now "Pohnpeian" (Dr. Wood in NZDXT).

**NEW ZEALAND** - R. Rhema has short term warrants for Auckland-603, 1kw, Dec.1-28, 1700-1100 daily (own pgms. 1700-0600, then relays Christchurch) and Palmerston North-702 500w (relays Christchurch fulltime) (A. Cushman, NZDXT). 3ZR-1521 is going from 100w to 200w. A station for skiers on the North Island was on through Oct.12 on 1125kHz with 1kw. Much of the time it relayed 2ZW Wanganui. At a later date, the operators will apply for a fulltime station to be known as R. Kapiti on the same freq. (DXA). 2ZM-1161 is supposed to be on FM by now, and the YC stations (882/657/983/900) are moving to FM in the next few months. 2YP-1530 Taranaki has local pgms. 2005 and 0025 (R. Chester, ADXN).

**NORTHERN MARIANA** - WSZE-1053 is now KONM (DXA via FERC) or KCNM (ARC); 1kw 2000-1400.

**TAIWAN** - V. of Asia-612 has EE 1100-1200, 1530-1630; EE/Indo/CC 1030-1100; Indonesian 2100-2200, 1200-1300; CC 0015-0100, 1300-1445; CC/Thai/Indonesian 1450-1520; Thai 1630-1730 (M. Yamada, ABI via FERC).

**VIETNAM** - a new 700kHz outlet has been noted, relaying Hanoi P1; unlisted (C. Seager, ADXN). (ADXN column editor Robert Chester conjectures this is Da Nang, which operated on 700 years ago-pt).

**USSR** - Moscow P3 service for Eastern Siberia is now on 963/1377 from 2200-1500 (Y. Kato, FERC).

**YAP STATE** - WWSA is in fact on 1494kHz with 5kw, 2000-1400 (DXA in ARC).

**INTERNATIONAL WATERS** - High Adventure Ministries (Voice of Hope) is launching a ship which will be moored off Singapore (ARC).

## TRANS-ATLANTIC

**ALBANIA** - Kukës-1016 has moved back to 990 with 15kw (EBU via BE in ARC).

**ANGOLA** - RN "A" Pgm. is 24h on 702/944/1367 and on from 2300-0530 on 1088kHz. "B" Pgm. is on 0530-2300 on 1088kHz. Menongue drifts between 1200-1255kHz (R. Ginbey, WRTHNL).

**BERMUDA** - Bermuda B.C.-960/1230/1340 is in financial difficulty. Meanwhile, VSB-1450 hopes to add more freqs including 1280 - AC and 1160 - special events + 106 FM (Olz in ARC).

**CENTRAL AFRICAN REPUBLIC** - A new 100kw outlet is on 1440kHz, replacing 1570/1kw (WRTHNL).

**CZECHOSLOVAKIA** - in a 5 year plan, 1500kw outlets are slated for construction in Western Bohemia and Slovakia; a 60kw XR is planned for Ceske Budejovice (ARC).

**FALKLAND IS.** - The 536kHz outlet is active again (ARC via DXC in NZDXT).

**FINLAND** - EE broadcasts on 254/558/963; Sat. 0800-0930, 2110-2240; M-F 1930-2000, 2030-2100, 2200-2225. GG: 1915-1930, 2145-2200 (WRTHNL).

**FRANCE** - Sud Radio is on to 811kHz using a 50kw XR at Libourne. Seems to be testing (EBU via ARC). Romaineville-738 is 4kw and relays RFI's external svc.; ID is "R.7" (WRTH/BE in ARC).

**GAMBIA** - 648 is the only R. Gambia freq (no P2). Sked: 0800-1500, 1700-2400, 10kw (SDXL in ARC).

**GERMANY, EAST** - 558 Neubrandenburg 20kw (ex-10kw). 999 Weimar 5kw (ex-20kw). 1377 (new) Klingenthal, 1kw. Delele Kamenz & Muhlhausen on 1485 and Senftenberg 1602 (EBU in MWSC). RBI-1359 has FF at 1830, Ital. 2130 (both 45min.) (WRTHNL).

**GERMANY, WEST** - Bayerischer Rundfunk has been testing on 648kHz (A. Schmidt, SCDX). NDR-612 Kiel carries Pgms. 1 & 2 with 10kw-days and 500w nights. AFN-1143 Ulm, 1kw, is off (EBU via RB in ARC).

**ISRAEL** - IBA-1440 has EE 0500-0515, 1100-1130, 1500-1505, 1800-1815. A new 5kw outlet on 1575 has opened in Gerofit, Negev (MWC & EBU via BE via ARC).

**ITALY** - RAI-567 Sassari 10kw is local 0630-07, 13-14, 1830-1900 M-Sat (PDX via ARC).

**KENYA** - In Voi, General Svc.-540 and Natl. Svc.-981 are both on (CGM in DXA via ARC).

**LIBYA** - El Beida-1124 is reportedly inactive (Play DX via ARC).

**MALTA** - the 999kHz outlet is the only MW station on here (AvE in ARC) other than the DW-1557 facility, which has GG 1400-1759 thru March 30, 1986 (H. Langer, DW in MWSC).

**MONACO** - TWR has Italian on 702kHz 1830-1835. On 1467kHz; EE 2200-2300; FF 1900-1930; GG 0445-0515, 2000 (Sat/Sun 2030)-2100; Danlsh 1930-1945 M&Tue; Ital. 2000-2015 Sat., SS 2145-2200 Thu-Sun. (WRTHNL).

**MOZAMBIQUE** -Beira-872, Nampula-1223, Quelimane-1295 are reported as inactive (ARC).

**NETHERLANDS** - the Hulsberg 20kw relays are on: 891 (r.1008kHz) and 1251 (r.746kHz) (BE in ARC). (Those of you with good memories remember these were on many years ago, Hulsburg/Hengelo, 890/1250-pt)

**PORTUGAL** - R. Renascenca: Vila Movra-891 is 20kw; Guarda-981 is 1kw (EBU via BE in ARC).

**SPAIN** - 1008 RCE Malaga ex-1107. 1107 RCE Teruel & 1269 R. Pop. de Leon now 5kw (Play DX/ MWSC).

**SYRIA** - Tartus-1070 is now on 1071 (EBU via MWSC).

**YUGOSLAVIA** - the 527 kHz outlet is now 5kw (EBU via ARC).

**VATGOSLAVIA** - NEW: 630 Livno 2kw; 1179 Zagreb 2-Pula, 2kw. Zagreb 1-Tovarnik-1125 is 300kw days and 100kw nights (EBU in MWSC).

**ZIMBABWE** - The ZBC plans an Ext. Svc. on MW with 500kw at Gweru (the transmitter was commissioned in 1968 and runs at only 100kw due to insufficient power supply, and has been used by the old RBC's General Service and ZRBC's Radio 3 (WRTHNL). (Confusing since R3 is listed in 1985 WRTH as FM only-pt).

**INTERNATIONAL WATERS** - "Laser-558" is off; frequency has been taken over by R. Caroline (P. Leng, SCDX). "Voice of Peace"-1539 was off, but has been reactivated (Play DX via ARC). "Jamming 963" is leasing 963kHz and has funk/soul/jazz/reggae from 1700-1800 & 1900-2000 (religion is on 1800-1900). Addr.: New York, NY 11518 (WDX/SCDX in ARC).

## PAN-AMERICAN

**BELIZE** - The VOA is installing two 100kw MW XRs here (SCDX) and freqs are supposed to be 1530 & 1580kHz (ARC). Currently on the air are 830-Belize City, 910-Punta Gorda, 910-Corozal (announced as 930) and 940-San Ignacio (RNM in ARC).

**BRAZIL** - 750 R. America ex-1390; now 25/5kw (PDX via ARC).

**CHILE** - CD69-690 is on 1000-0400 with 32kw (THE in ARC).

**COLOMBIA** - New RCN ID format: "En Colombia, RCN Cali, 1030 kilohertz, HJER, frecuencia basica RCN - RCN, la radio de Colombia." RADIO EL SOL: the following now ID as R. el Sol, w/ or w/o their regular slogans: 1320 HJFE & HJON, 1330 HJFE, 1370 HJEQ & HJJQ, 1400 HJHM & HJLL, 1410 HJFS, 1460 HJZU, 1510 HJVV, 1550 HJCB and 1560 HJCP (the network is called Sistema Deportivo Solar) (HK in UKVK). 630 HJ. LV de Guainia, Pto. Inrida is new w/10kw (HK in ARC). 860 R. Cd. de Cucuta, ex-860. 1001 LV de Galeras is here to avoid QRH from R. Cd. de Pasto-1040 (in a later issue, it is reported on 1010). 1170 R. Nutibara definitely here. 1220 HJ. in Barranquilla apparently has swapped channels, as R. Tropicana is now heard on 1100. 1250 LV de Anserma, ex-1140. 1370 R. Zarzal ex-1590. 1480 HJFC R. Centinela is still using this old slogan and not the projected R. Sonorama. 1580 R. Cachaca, Bogota (Av. 34 No. 19-45) is here (HK in UKVK).

**COSTA RICA** - 550 TISCL R. Santa Clara, San Carlos (50kw) is new & is owned by the Catholic church. 570 TISJB is ex-TISBJ. 590 TIRN is 30kw. 610 TIRSU 5kw. 640 TIOQ R. Musical, ex-R. Cucu (ex. 700 R. Sonora). 670 TIBAS now 12kw. 730 TIHB is 10kw, not 50kw. 800 TIW R. Uno 1kw. 820 TIGC 1kw. 870 TIUCR R. Uni-versidad is now 12kw. 950 TIECO R. Sensacion, ex-R. Eco. 980 TIRI R. Impacto is on 1100-0800, ex-24h. 1025 TIBAS ex-1020. Delete 1040 TIBAS; it is now TIAC R. Fides, San Jose, 12kw (a later release says TIBAS is still here). 1060 TILX is in San Isidro de El General, ex-Liberia. 1140 TIBAS San Carlos 1kw. 1180 TIPJ is inactive. 1260 TIHN now 6kw. 1580 TIQ R. Casino, Siquirres, new. TIBAS is now the call sign for all R. Monumental stns., ex-TITNT (RNM in ARC & WRTHNL).

**CUBA** - R. Tahino-1170 has EE & SS tourist info (S. Gomez, SCDX). (Right next to Marti-PT).

**DOMINICAN REPUBLIC** - 650 HIAT is 20kw. 840 HIAB is ex-HIABA. 860 HILR is back on the air. 910 HIDE R. Tiempo, San Pedro is new (however, in a later ARC, is is deleted with a SF de Macoris location). 920 HIBA is only 250w nights, not 5kw. 1010 HIJP is 50kw. 1050 HICB is R. Hispaniola. 1100 HIRB is ex-HIRS. 1110 HIITC is ex-HIJJ. 1240 HIAU is 5kw. 1250 HIBC R. Triunfo, ex-R. Punto. 1320 HIHZ R. Boya, ex-1280-R. Monte Plata. 1330 HITA LV de las Fuerzas Armadas, Moca. 1370 HIFA LV de las Fuerzas Armadas, Comendador, 5kw. 1470 HIDE R. San Francisco, SF de Macoris, 1kw (must be ex-910). 1480 HIAH Santo Domingo, R. 1480AM, is ex-R. Disco. 1490 HIOS R. Marien ex-1260. 1570 HIRJ ex-1250 (RKC in ARC & WRTHNL).

**ECUADOR** - 610 Em Gran Colombia is now 50kw. 830 HCRH2 uses 25kw. 900 HCOF4 R. Chone is 5kw 1100-0400, but sometimes veers down to 898kHz. 1130 HCIR1 R. Amazonas is still on 1125 despite the change of its nominal freq. from 1140 to 1130 (THE in ARC). 1425 Dimension 14-30, Guayaquil (same addr. & floor as R. Huancavilca-830 & Canal Tropical-930); 100% ballads (HK in UKVK).

**GUATEMALA** - 860 TGFP R. Tikal is now on 810, 0000-0300 (WRTHNL). 1270 TGCO R. Exclusiva is 2.5kw; US pops (same owner as 1030/1360). 1300 TGTL is inactive. 1330 TGMU is R. Union, an AWR station; their antenna was destroyed a year ago by lightning, and after some customs problems, the new one should be installed by January '86. 1360 TGLK R. Tic Tac, SS pops, 5kw. 1420 TGRP R. Capital ex-R. Dial 14. 1480 TGRH is ex-TGBH; R. Horizontes (the "RH"); 10kw. 1510 TGDX R. Centroamerica (LV de la Verdad) is 5kw. 1570 TGVE R. Voz Evangelica de America (R. Vea) is 10kw; sends 70% of its pgm. to sister stn. in San Salvador. In Antigua, 1220 TGMT R. Luminaria and 1260 TGAV R. Monumental are 1kw (AV = Antigua Volcanica) (T. Inoue, visiting in Guatemala, via FERC).

**HONDURAS** - HRCD-1370 R. Constelacion is now on 1384 (ARC via DXC in NZDXT).

**JAMAICA** - the Prime Minister has decided to turn broadcasting over to private interests in the very near

future (NASWA in ARC). 750 & 790 are reportedly inactive (DXLD in ARC).

**MARTINIQUE** - FR3-1310 now closes at 0400 (SDXL in ARC).

**MEXICO** - 630 XEFB La9 FB is now 10kw. 670 XEIS La Rancherita Consentida is now 5kw. 730 XEX R. Festival is only 100kw. 800 XEER XEROK R. Canon is 150kw day & night. 810 XEWF is 50kw day & night. 900 XEW has set up a PR office to handle the 150,000 reception reports it has received over the past 15 years: Srta. Alicia Solano Miranda, Aguntamiento 52, 06070 Mexico 1. 940 XEQ La Q is 50kw. 970 XEDF F. Fantastica is ex-R. Uno. 1010 XEHL La Poderosa is 10/5kw. 1470 XESM R. Canon is ex-R. Cinco (SDXL via ARC & A. Diaz via ARC in FERC). **NOTE: XEHL-1010 has moved to 990 as per TL in ARC #26/10.** The following changes apply to text in the 1986 WRTH; please don't try to make these changes in the 1985 edition! 74)750 is now R. Sensacion. 78b)820 is Onda 82. 123)880 new call is XEAAA. 78c)920 new name is R. Deportiva 92. 19)add new stns. on 1000kHz: XETAC-1kw R. Mil, Ap. 57, Tapachula, Chis., 1200-0100; XEMYL-1kw R. Mil, Calle 60 No. 385, 97000 Merida, 1300-0100; XELMS-1kw R. Mil, Los Mochis. Add XEMTV-1260, 250w, R. Lobo, Minatitlan, Ver., 1200-0100. 237)1270 XEMW now 1260. 259)1290 now R. Ritmo. 272)1310 now "La Tropiranchera." 369/1490 now R. Variedades. NEW is XEGEM-1500 2kw Toluca, R. Mexicuaense (WRTHNL).

**MONTSERRAT** - The VOA is using the 930kHz facilities from 0000-0400 and 1700-1800. The CBC is using 740 and 1450 from 2230-2300 and 930 from 2300-2330 (Olle Alm, ARC).

**PANAMA** - 570 R. Uno now 5kw, 1000-0400. 650 HOS22 R. Mia now 1000-0400 (ex-24h). 700 R. Continente now 5kw 24h. 870 R. Musical now 5kw, 1000-0400. 1120 HOM21 - DELETE. 1330 NEW R. Fiesta 1kw 1100-0500. 1380 R. America 1000-0400, ex-R. Titania (WRTH).

**PARAGUAY** - ZP16-555 is now on 890 (THE in ARC).

**PERU** - Peruvian stations are having problems getting enough power to operate. The same source says that there are many applications for new stations in the provinces (MB in PDX via ARC). 540 OBX4E R. Inca del Peru is here, ex-1380 (C. Saavedra, THE in ARC).

**PUERTO RICO** - WABA-850 granted 5000/1000 U1. WBOZ-1090 granted WSOL (Broadcasting). WKJB-710 wants 750w nights and WENA-1330 wants 2.5/1kw. WPRP-910 wants 5kw U. WBQN-1160 wants 1/2.5kw. There has been an application for 1180kHz 1kw in Hope Valley (Broadcasting & Starr, NRC).

**VENEZUELA** - YVPJ-1330 and YVQU-1340 now both use 10kw (PDX, AH in THE via ARC).

**VIRGIN ISLANDS** - WBS-1090 Charlotte Amalie granted WRRD (Starr, NRC).

**EXOTIC JAPAN** is the name of FERC's 36 page definitive exploration of the world of Japanese MW, and includes XR sites, midnight DJs, maps, and everything you ever wanted to know about JJ stations. Cost is \$6US; send to Toshihiko Oka, 64 Sumiyama-cho, Kameyama City, Mie Pref., 519-01 Japan... Craig Seaver in ADXN: KGER-1390 has carried religion ever since ??? and is probably your station... To SJH in UKVK #14, WJMS is on 630, not 590; you must have heard WKZO...

How about a Georgetown, Guyana bandscan? 535 R. Grenada. 540 R. Perija, XEWA. 555 ZIZ. 570 R. Rumbos. 580 LV de la Fe, R. Rebelde. 590 R. Continente. 595 Dominica. 600 R. Paramaribo. 610 NBS Trinidad. 620 Antigua, LV de Nicaragua. 640 RADIKA. 650 R. Universal. 660 WNBC. 680 WPTF. 690 Caribbean Beacon, R. Barquisimeto. 700 WLW. 705 St. Vincent. 710 R. Capital, WOR. 725 SRS Suriname. 730 R. Trinidad. 750 R. Caracas. 770 R. Nacional, WABC. 790 V. of Barbados. 800 TWR Bonaire. 820 R. Apintie, R. Guayana. 825 R. Paradise. 840 WHAS. 860 R. Clarin. 870 WWL. 880 WCB. 890 WLS. 900 CBC Barbados. 914 R. Rani. 930 R. Antilles, R. Continental. 950 R. Vision. 960 R. Mundial. 1000 WVVU. 1030 ABC; WOSO. 1070 Fr. Guiana. 1080 R. Barcelona. 1090 R. Exitos Mil Noventas. 1100 ZDK. 1140 WRWA. 1165 Caribbean Lighthouse. 1190 R. Dif. Cultural del Tachira. 1210 WCAU. 1240 LV de Venezuela. 1310 Martinique. 1370 WVIV. 1400 R. Sabana. 1510 WLAC. 1520 WKBW. 1530 WCKY. 1540 ZNS. 1580 VOA. 1610 Caribbean Beacon. This is fairly basic, and comes from Stanley Breuman, a DXer in Georgetown.

**CONTRIBUTORS:** *Australian DX News* #s 246-251. Arctic Radio Club *MV Eko* #s 26/1-10. *DXers Calling* (DX Australia) #s 36-40. Far East Radio Club (FERC) *Lag* #s 94-99. *MWSC Skala* (Mittenwellen Spezial Radio Club, W. Germany) #s 91-93. *N.Z. DX Times* #s 37/10-12, 38/1-3. *South African SW Listener* (SADX) #s 25/6-11. *Sweden Calling DXers* #s 1861-1868. UKVK (Umea Korvagsklubb) *Distance-R* #s 9-15. *World Radio-TV Handbook Newsletter* (WRTHNL) Sept. & Nov. 1985. *Contents may be freely reproduced providing credit is provided to both the source and the name of the individual contributor submitting the material.*

This was done on a Macintosh using --what else-- MacWrite. I think this is a much more time consuming word processing package than the Word Juggler I used on the old faithful Apple III, but when you want to use an Apple LaserWriter, the options are limited. So we continue with the latter on most of our basic correspondence and will use the former for the heavy presentations and for graphics are our advertising & PR firm. I got piggish and moved the preset right margin off the edge somehow and couldn't retrieve it; the printer was cutting almost half an inch off the right side. I got around this somehow by printing it at 94%...

Well, the files have been cleansed, and I sincerely hope there is someone out there in IRCAland who is willing to take over the column. As part of the deal I will provide the new editor with a 3 1/2" 3-ring binder of all the entries put in the column since I have edited it, filed sequentially by country. In addition of course, you will get on a pretty nifty mailing list of foreign publications. So, if one of you out there really wants to make a useful New Year's resolution, why not volunteer to do DXWWWII? *This is my last column, and I'd like to thank all my contributors and wish all of them and all of you a great 1986!* - Pete Taylor.



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**KAYO**  
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Radio Center



# Marti Wafts Time Warp To Listeners in Havana

## Uncle Sam Is Said to Play '50s Again

By Edward Cody  
Washington Post Foreign Service

HAVANA—Radio Marti, set up by the Reagan administration as a beacon of truth to Cuba, has become a flashback to the prerevolutionary 1950s for many bemused Havana listeners.

"It is as if somebody were giving us news from Eisenhower's time," smiled one middle-aged woman who said she has tuned in occasionally since the broadcasts began May 20 under the aegis of the Voice of America.

"The broadcasts are stagnant in time. The people they are speaking about are not known to the young people of Cuba," said another listener, who has lived here before and since the 1959 revolution. "They are the heroes of yesterday, not the heroes of today."

President Fidel Castro's government has denounced Radio Marti broadcasts to Cuba as "aggression." When they started two weeks ago, Castro retaliated by suspending a six-month-old immigration accord and threatened to take "additional measures regarding communications between the United States and Cuba."

This was interpreted as a warning of possible jamming of U.S. commercial stations, which Cuban officials have spoken about repeatedly since the idea of Radio Marti came up early in the Reagan administration as an antidote to Cuban censorship. No such steps have been taken, but Cuban and diplomatic sources said preparations are under way here in case Castro decides to put into practice a second threat, that of resuming medium-wave English-language broadcasts to the United States.

Cuban officials interviewed this week expressed particular offense at the facility's choice of Jose Marti for a name, since they associate the nation's 19th century independence leader with Castro's own efforts to assert independence from U.S. influence. Marti, a poet, was forced into exile in the United States, of which he once said: "I know the beast; I have lived in its entrails."

Some Havana residents, interviewed at random and without government officials present, scorned the new U.S. station for the name's sake.

"They don't have any sense of right and wrong, to use a name like that," fumed a 74-year-old retiree waiting for a bus.

"I think it is shameful," added Vivian Rosales, a cashier for an ice cream stand in a Havana park.

Tanya Gonzalez, a 21-year-old medical student at the University of Havana, said she has dismissed Radio Marti because in her view it can add nothing to information and entertainment she receives from Cuba's government-controlled radios.

"For music, we have our own music," she said. "For news, we also have our own news, and we prefer ours to theirs."

In private conversations with anonymity guaranteed, a number of Cubans said the new station's main drawbacks are that it sounds like a throwback to prerevolutionary days, ignoring changes Cubans have undergone since 1959, and that it purports to tell Cubans about Cuba without being able to do so.

"If only they could have some reporters here, because they have no idea what is going on," said an educated professional woman. "What can Radio Marti tell me? That I went to the store today and they didn't have soft drinks? I already know that, and they don't."

A Cuban journalist pointed out, for example, that a recent episode of the Radio Marti soap opera "Esmeralda" included a peasant whose wife died because he could not find a doctor for her. That could not happen in the Cuba of 1985, he added, because despite shortages in many areas the island has enough doctors in the countryside as well as the cities.

The professional woman said she was also surprised on the radio's first day of broadcasting to hear the voice of Miguel Portuondo Cala, a veteran sportscaster who left the island some time ago.

"He must be in his nineties," she said, chuckling. "I thought he passed away long ago. He was talking about baseball players nobody remembers."

She also expressed amusement at interviews and songs from Cuban emigre singers such as Celia Cruz and Olga Guillot, who she said have faded from the scene here, particularly among the half of Cuba's population that is under 40 years old and grew up under the Communist government.

"If you ask my opinion, I would say it is right out of the '50s," the woman added. "All these people still have the ideology and the outlook of the 1950s. It sounds as if the programs were taped 25 years ago."

The Cubans' comments, echoed by Latin American diplomats stationed here, focused on entertainment programs. But some officials expressed particular displeasure with news specials on the October 1983 Grenada invasion and the Cuban role in Angola.

A random sampling of news programs by a visiting American indicated emphasis on news from Angola, including communiquees from South African-backed UNITA guerrillas claiming casualties among Cuban troops there. The edge on Angolan news also included an inaccuracy, attributing to Castro in a speech Wednesday a revelation that 25,000 Cuban troops are stationed in Angola. In fact, the Cuban leader stuck to his refusal to discuss precise numbers on the subject.

A number of Cubans, including some Foreign Ministry officials, expressed dismay that Radio Marti has erased regular Voice of America medium-wave news broadcasts. The VOA news was regarded as more trustworthy than the new programming, they said, because Radio Marti has from the beginning been seen as a project of Miami's hostile Cuban community, reflecting antipathy toward Castro and his government.

The new station's 14½ hours of daily programming have been beamed to Cuba on 1180 kilohertz from the VOA's 50,000-watt AM transmitter at Marathon in the Florida keys, which previously was used for the VOA. As a result, VOA Spanish-language news broadcasts to Cuba on medium wave, which were widely listened to here, have gone off the air, remaining available only on shortwave broadcasts that cover all Latin America.



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# AM Signal Behavior

by Ed Montgomery

Annapdale VA ... The AM broadcast band lies between 540 kHz and 1600 kHz at this writing. Each broadcast channel is assigned a carrier that is 10 kHz apart beginning at 540 kHz. This frequency range evolved out of two frequencies originally assigned for broadcasting by the Department of Commerce: 618 kHz and 833 kHz.

As broadcasting grew, more channels were added until the AM band we are now familiar with was created. Because this was the first system used for broadcasting, it was also termed "standard broadcast."

In later years, the frequencies that included the AM broadcast stations became known as the medium wave band, extending from 300 kHz to 3,000 kHz.

Quite early in the experimentation of transmitting on these frequencies, it was discovered that if the transmitting antenna, or radiator, was placed in a vertical position, a very reliable signal would be produced that travels along the surface of the earth. This is known as a ground wave.

The distance a ground wave travels is dependent upon a number of factors. The vertical height of the transmitting antenna determines how much signal is radiated into the sky as opposed to that which is radiated along the earth's surface.

Tall towers are employed by clear channel AM stations. This type of antenna affords these stations a very large area where the ground wave is present. Regional and local channel AM broadcasting stations are given lower power and shorter antennas, thus confining the area where ground waves are present.

The consistency of the earth's surface also affects how far the ground wave will travel. If the earth is filled with rock containing iron ore, or if the radio signal must pass through a city or an industrial area, the signal loss will be great. The radio signal is electromagnetic in its composition. Any ferrous material will absorb this signal in a manner similar to how ferrous material attracts a magnet.

Relative conductivity of various earth surfaces are shown in Table 1.

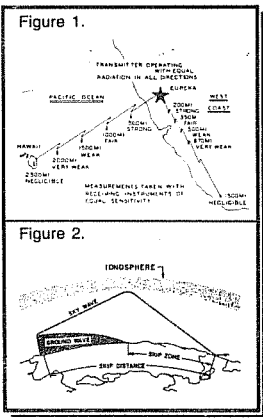
Surface	Conductivity
Sea Water	Good
Pastoral, rich soil	Fair
Great Lakes	Fair
Rocky terrain, Cities	Poor
Desert area	Poor

The frequency of the medium wave also determines the area the ground wave will cover. AM broadcast stations with longer wavelengths will have a greater ground wave coverage area than those with shorter wavelengths, with all power and antenna heights considered equal (see Figure 1).

Ground wave coverage is termed the primary service area of a broadcasting station, and includes the most reliable radio signal and usually the station's city of license as well.

## Skywave signal

The medium wave antenna also emits radiation into the sky. This is known as the skywave signal. In the daytime, this



signal reaches areas outside the primary service area. Known as the secondary service area, signals in these locations are weak, and filled with noise, and often-times fade.

Another phenomenon occurs at night with the medium wave signal. Between 100 and 250 miles above the earth lies a portion of the ionosphere known as the Kennelly-Heaviside layers, named in honor of the men who discovered them. At night this portion of the atmosphere acts like a mirror and reflects back to earth a large portion of the medium wave signal. The Kennelly-Heaviside layers' ability to reflect radio signals peaks at sunset and constantly varies until sunrise, when it is at a minimum. The reflected signal is known as skip.

## Skip

When considering skip, one must consider the height of the transmitting antenna. The length of the vertical radiator affects the angle at which the skywave is radiated.

Tall towers exhibit very low angles of radiation, permitting the skywave to skip several hundred miles.

Shorter towers radiate skywaves at high angles, allowing most stations a very short skip distance before the signal comes back to earth, sometimes even within the primary service area, causing fading of the signal in receivers.

Clear channel AM broadcasting stations have been granted tall transmitting towers and are the easiest for most receivers to detect at night.

Regional and local channels can also be received, but because of shorter antennas and more crowding on their frequencies, are less likely to be received reliably for long periods of time.

The nighttime skipping of medium wave signals is the reason why many AM stations must sign off or reduce power at night. This action was implemented in 1927 with the establishment of the Federal Radio Commission in an effort to make nighttime radio listening more acceptable.

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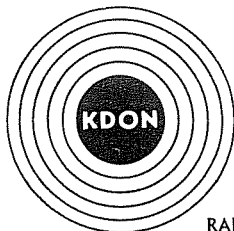
Yours very truly,

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# 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 - 1630 KHz). "DX Monitor", the official publication of the IRCA, is published 34 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 ARARC, the Association of North American Radio Clubs.

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