



# DX MONITOR

PUBLISHED BY  
THE INTERNATIONAL RADIO CLUB OF AMERICA

VOLUME 16

NO. 15

WHOLE NO. 500

JANUARY 6, 1979

## FLASH TIPS

NONE TO SPEAK OF, NOR ANY CPC TESTS EITHER, but a few items sent to HQ worth mentioning:  
Newspaper articles from Mathew Shugart & Gary Siegel inre Storer B.C. selling their AM stations, i.e. WSPD, WHN & KTNQ plus several FM stations.... An article from Bruce Portzter about the new FCC ruling re clear channel allocations benefiting KXA & KIXI....From Jef Jaisun about KGAA being sold once again + article on KTNQ also....Rth is taking a log on KLOC (I can hear them too, when KNEW takes a deep breath)....During KNBR's famous SP on 12/16 I noted a SS on 690 (XETRA off too) with a C&W oldie followed by Spanish talk, @ 0410? No one else mentioned this one.....Stations to be deleted from the non-reported to DXR & DXWW sections in four years totals: WQNN-FL & WMBM-FL by Bob LaFore; WEIM-MA by Bryan Lee; KMAV-ND & KCCR-SD by Andy Kwiatkowski; KSWW-AZ by Bill Harms & new station OKST-AB by Robert Lake.....

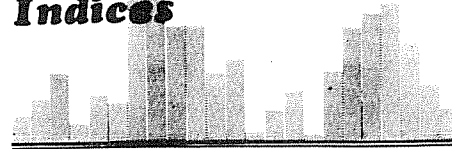
NOW TO THE "HELP WANTED" SECTION (Sorry Albert)... First we need some people with a bit of artistic talent to step forward. HQ hard worker Larry Nebron needs some ideas and some art work to help spruce up the DXM's headings etc...Second HQ would like any and all ideas the members can suggest concerning the publishing of DX MONITOR. For instance the recent history of IRCA has found San Diego, Seattle & now San Francisco carrying the publishing chores for two years and then turning it over to a new group. Each time it was harder finding a group willing to take over the duties & responsibilities of publishing a 'bulletin' 34 times a year. SPPC has not had one inquiry much less an offer from anyone in the club since we announced a month ago that we would terminate as publishers at the end of the current volume. It would appear that this situation will get worse in the future instead of improving so it would seem like a good time for the members to advise us of any ways, within the clubs budget, that we can keep publishers for a longer period of time or set a series of publishers for a considerable length of time to keep the club publication stable and orderly. One idea that has been proposed from several sources is that we publish fewer issues a year (24 or 26 for example). If nothing else this would eliminate the once a week publishing sessions & paste ups that the HQ crew must endure for six months each year. This in itself can make a publishing crew grow old in a hurry. So we are urging all members to give some thought to this situation. If left unprobed this situation could become a very large problem much quicker than any of us would like to see.....dkk

## The Inside Story —

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## Geomagnetic Indices



11/20-11/26	18	12	21	10	14	37	25
11/27-12/3	15	4	2	3	8	0	4
12/4-12/10	10	9	4	2	3	2	1

The Ottawa 10.7 cm solar flux exceeded 200 for the first time in the current sunspot cycle on 12/9. Mean Zurich sunspot number (unsmoothed) for November was 96.6, a drop from 122.8 in October.



AM 1420 KC / FM 103.9 MC  
P. O. BOX 508 / POCAHONTAS, ARK. 72455

TP DX

New data book entitled PACIFIC LOG has been released. It contains up to date information on frequency changes for Australia, New Zealand, Papua New Guinea, all Pacific Islands including U.S. Trust Territories, Indonesia, P.I., and Japan as well as program formats, transmission schedules, including silent periods, directional patterns, new networks, and call/frequency cross reference. It uses the same format as the MRC Domestic Log. Order your copy today. It will open the way for all that rare TP DX you've been waiting for. Imagine logging Niue on 531 with 250 watts, Truk Island 1602 or Noumea 666. Write to Chris Martin, GPO Box 1150, Sydney 2001, Australia. Price is Austr. \$5.00 + 3.00 for handling, packaging and air mail postage to your address. Remit by International Bank Draft or International Money Order.



1601 WEST PEACHTREE STREET, N.E. / ATLANTA, GEORGIA / 30309

### WOBORATS GET-TOGETHER

(Washington-Oregon-British Columbia Radio & TV Society)  
The second annual WOBORATS Ground Hog's Day GTG will take place Saturday February 3, 1979, beginning at 12 Noon, at the home of Bruce & Evelyn Portzter, 6546 19th Avenue N.E., Seattle, WA. Those who attended last year's festival are still talking about it and wondering what will happen this year.

- \* Will Phil Bytheway bring his deflatable penguin?
- \* Will Jef Jaisun sell autographed copies of his album?
- \* Will John Oldfield bring more of that stuff he claims is Canadian beer?
- \* Will Don Kaskey show up to promote the virtues of becoming Editor-in-Chief?
- \* Will Rich Segalas show up? Or will he be held prisoner in a Crown Zellerbach papermill?

The answers to these questions and other "in" jokes can be answered only by showing up. The stories you'll read in DXM afterwards will be grossly distorted.

If you plan to attend or want more information, contact Bruce at (206) 522-2521. SEE YOU THERE!

**eastern dx  
roundup**

Bob Curtis  
17 Cobbleview Dr.  
Colchester, VT 05446

DEADLINES: Mondays All times are Eastern Local  
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Splatter:  
"Absolutely the best SSS catch I have ever gotten." (see WOBR-1530) Bryan Lee - CT  
"Got a really good mystery station." (see UNID-1590) Steve Grubb - TN  
"Rare catch". (see WGMA-1320) Joe Fela - NJ  
"One very unusual logging to report." (see-1610) Stan Stanbury - ON  
"Received a QSL letter from the KADE CPC test." Steve Grubb - TN  
"Rare". (see WRCQ-910) Paul Mount - NJ

- 550 WHLM PA, Bloomsburg 12/4 1355 Nx and wx barely audible, but ID clearly heard. (SS-NJ)
- 560 WFIL PA, Philadelphia 12/10 1910 "WFIL Christmas Wish", YL anncr, MoR mx, good signal in WHYN null. (BL-CT)
- 570 \*WMCA\* NY, New York MM 12/18 0310-0320 Off RS with tones of all hertz, OC leaving a beautiful mix of WABC, WWDJ-970 and WHN-1050 at 0310-0320. (PRM-NJ)
- WWNC NC, Asheville 12/12 1807 Fair sig, show about failure (I do that already, hi), wx, into c&w mx. Spot for Catherine's, Blue Christmas - Elvis. (SG-TN)
- 580 CKAP ON, Kapuskasing 12/9 2243 Very good at 2243 mentioning last song before news, "Dust in the Wind" then ID 2045 into the Final News, ID middle of it then sports, wx (-20°) then "good night" "see you tomorrow", lost to CBS RMT stn, so don't know if sign off then, or no more news. Listed as NSP (PRM-NJ)
- WCHS WV, Charleston 12/10 0100 Easy listening mx, CBS mx, good signal, little QRM. (SS-NJ)
- WHP PA, Harrisburg 12/3 1500 CBS Nx, many commercials, good signal, no QRM from WMCA. (SS-NJ)
- 590 WROW NY, Albany 12/4 1400 CBS Nx, commercials, over WARM; which is usually here. (SS-NJ)
- ???? UNID, 12/10 1922 Someone under WBEI w/"20-20 Nx-Sx". Fair. CKEY? (BL-CT)
- 610 WDAF MO, Kansas City 12/11 0134-0154 Country mx, spot for Mitchell's Gift Shop. Wx at "61 Country" over WIP and talker. Clear. (PRM-NJ)
- 640 WHLO OH, Akron 12/10 1928 Call-in Talk Show. Fair. (BL-CT)
- 650 \*WSM\* TN, Nashville 12/11 0144 Continuous tones. Xlnt signal, slight WNBC QRM. (BL-CT)
- 710 (WOR) NY, New York 12/11 0141 Noted off the air, open carrier. Xlnt, of course. (BL-CT)
- + 12/18 Off MM for 4th week in a row. (PRM-NJ)
- 850 WEAT FL, West Palm Beach 12/18 0349-0413 Fair w/country music, 2 songs segued mostly, ID/nx 0400-0405, maintenance job opening 0410. WRUF and SS QRM. New. (PRM-NJ)
- WRUF FL, Gainesville 12/18 0358-0403 ID at 0400 u/WEAT. (PRM-NJ)
- 880 \*WCBS\* NY, New York 12/11 0131 Tones, Xlnt signal. (BL-CT)
- 910 WRCQ CT, New Britain 12/18 0419 Fair, distorted 0419 w/rock, 91-Q ID, YL DJ. Rare. (PRM-NJ)
- 930 WGNT WV, Huntington 12/12 1726 Good sig (4th WV station) T-40 mx, lotsa comments about Huntington, PSA, spot for Scottie's in Chesapeake. (SG-TN)
- 940 WMAZ GA, Macon 12/7 1925-1940 Ripping up an interesting talk show on local WINZ w/T-40 mx. Several "M-A-Z" jx's. So much for interesting talk shows. (BL-FL)

- 960 CKWS ON, Kingston 12/11 0124 Ad for Apollo Pizza, ID "96 W-S", Good sig. (BL-CT)
- WFIR VA, Roanoke 12/12 1730 Good signal ment Roanoke, I-581 & Toner's Mall into nx. Douglas Zinc was news caster. ID "96-NEW", wx (44°), Heavy QSB in the last few minutes. (SG-TN)
- 980 WILK PA, Wilkes Barre 12/10 1935 T-40 mx, wx forecast. Weak u/WTRY. (BL-CT)
- 1010 \*WINS\* NY, New York 12/11 0153 Tones over CFRB. (BL-CT)
- 1160 KSL UT, Salt Lake City 12/11 0207 Beginning of "Nightcap" show. Poor signal. (BL-CT)
- 1200 WOAI TX, San Antonio 12/10 0200 CBS Nx then into public affairs show. Some QRM WOWO and WCAU. (SS-NJ)
- 1220 CKSM QU, Shawinigan 12/10 2001 FF Nx, ID's, good signal o/WGAR for once! (BL-CT)
- 1230 WONN FL, Lakeland 12/10 1727 Fair with Dolphin F'ball, local spots (BL-FL)
- 1240 WROV VA, Roanoke 12/11 0323-0327 Fair w/rock 0323-0327 ID, call to stn confirms. (PRM-NJ)
- 1260 WMCH TN, Church Hill 12/12 1700 Good signal, National nx, spot for a shopping mall, ID'd as "WMC News-time 5:06" into local nx, wx 42°, s/off, ment of PSA power of 500w., s/on at 6:00 AM, SSB. (SG-TN)
- W\_H UNID, 12/13 1645 s/off at 1645 sounded like WCHD/WBHD, mentioned Radio Park, "wish you a pleasant good evening" and SSB. (PRM-NJ)
- 1280 WEIM MA, Fitchburg 12/13 1533 Sports wrap-up, ad for "Elliot Jewelers" in downtown Fitchburg. MoR mx. Fair-good signal. (BL-CT)
- 1310 WGH VA, Newport News 12/13 1643 Atop at 1643 w/rock, "WGH Your Music Station" ID o/lots of unIDs and WCAM-NJ. (PRM-NJ)
- 1320 WGMA FL, Hollyweird 12/16 1823 Atop at 1823 w/promo into country, rare catch. (JF-NJ)
- 1330 CKLD QU, Thetford Mines 12/10 2007 FF, YL and man anncr's, Jazzy-almost reggae mx played. Good o/WEVD. (BL-CT)
- 1370 WWKE FL, Ocala 12/6 1658 Top-40 mx. Several ments of Ocala 1700 ID (jx) w/WKAT explosions. (BL-FL)
- 1380 WRAQ NC, Asheville 12/12 1716 Good sig. ID'd as "14-Q" into T-40 and then ID'd as "The New Q". (SG-TN)
- 1390 WFBL NY, Syracuse 12/10 2011 T-40 mx, ID: "14 F-B-L", Xlnt signal! Didn't they used to have a silent period last year? I don't recall getting them so much, as I do now. (BL-CT)
- 1420 WLIS CT, Old Saybrook 12/13 1542 "Win a free front end alignment from Clinton Firestone by answering this question: Who was the Yankees' captain before Munson?" Fair sig. Strange that WLIS shows up so loud. (BL-CT)
- 1440 CFGO ON, Ottawa 12/11 0225-0240 Good w/14 Q, 0225-0240, spot for Hotel Brampton, promo as "CFGO w/the best album music". Not heard in long time. (PRM-NJ)
- ???? UNID, 12/11 0030 Amer. Top 40 show at #5 0030 i.e. started 2100 o/CW QRM. (PRM-NJ)
- 1490 WMBM FL, Miami Beach (program note) On 12/18 switch from soul to all Disco. ID - "Disco 15" and "Disco 1500". Not sure if they will drop the AN gospel. (BL-FL)
- 1530 WOBR NC, Wanchese 12/14 1645 S/off, ment of "250 watts" and "serving the Outer Banks". Ment of "please tune to WOBR-FM 95.3". Absolutely the best SSS catch I have ever gotten! (BL-CT)

1560 WQXR NY, New York 12/10 1852 Strong, w/slight QSB & QRM. 1st time. Talk show about geographical influence, classical mx in between comments. ID'd as "Music Radio W-Q-M-X FM 96.3: AM 1560". TC & nx. (SG-TN)

1580 WEYY AL, Talladega 12/13 1742-3 Fair w/spots for White Castle and Coca Cola 1742-3, then talk about ending, then s/off ment 2500 watts & old favorite "When WEYY goes off, even the sun goes down". WQXR slop. (PRM-NJ)

WSRF FL, Ft. Lauderdale 12/13 1727 Fair w/rock at 1727 into nx w/"Surf 16" ID. (PRM-NJ)

WYFA NY, Patchogue 12/9 1151 Local commercials, Top-40 mx, good signal. (SS-NJ)

???? UNID, 12/13 1746 S/off mention 5000w., FCC, studios & offices at 316 (something) South. Time 1746. CBJ QRM. (PRM-NJ)

1590 WAKR OH, Akron 12/12 1801 Fair signal (after station "X" (unID) changed pattern). Nx & "Business week on Wall Street". Slight QSB at times. (SG-TN)

WETT MD, Ocean City 12/11 0215 Good at 0215, of course w/ "Wet News" over WAKR. (PRM-NJ)

???? UNID, 12/12 1759 Good signal, T-40 mx, mentioned Jackson & ID'd as WIIT? (Got any suggestions? It was clear.) Then the second it turned 1800 the signal vanished, (Presto! hi). Probably a pattern change. (SG-TN)

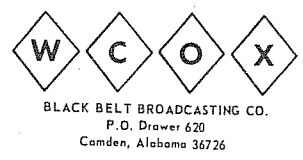
1610 ???? UNID, 12/13 1830a First noted from 1830a. Became partially readable at 1910 w/documentary on Sioux Indian revolt. This same documentary was being aired at 2225. Is apparently a TIS station at some historic site (in SD??). But if so their antenna has not been set up properly, as TIS stations are supposed to radiate virtually no sky-wave. HiFix QRM plus splatter from 1600. (CMS-ON)

//////  
 ID'ING the UNIDS  
 1410 ???? (KJ-GA) (see EDXR for Nov. 11th) Charlotte County is just north of Ft. Myers, so WMYR is likely. Rumor has it that they are AN.(BL-FL)

REPORTERS THIS ISSUE  
 JF-NJ Joe Fela, 150 Robert Pl., South Plainfield, NJ 07080 HQ-180 & Radio West antenna  
 SG-TN Steve Grubb, 203 Marie St., Greenville, TN 37743 Realistic Sta 64  
 BL-FL Bob LaFore, 12991 SW 252 Terr., Princeton, FL 33032 DX-160 + 125' 1'wire  
 BL-CT Bryan Lee, P. O. Box 69, Brooklyn, CT 06234 Realistic TRF + longwire  
 PRM-NJ Paul Mount, 471 Emerson Ave., Teaneck, NJ 07666 TRF, Space Magnet-1 & Realistic AM-FM & rx's  
 SS-NJ Susan Sirulnick, 223 Lakeview Terr., Teaneck, NJ 07666 Realistic TRF  
 CMS-ON C. M. (Stan) Stanbury, Box 218, Crystal Beach, ON LOS 1Bq HQ-200 + 90' longwire  
 \*\*\*\*\*

Thanks to Paul Mount for sending along latest survey charts. They are very helpful for reference. Christmas cards received have been very much appreciated. Thanks.

73 and good DX Bob Curtis



**central dx roundup**  
 Bob Lazar  
 511 W. Doty St., Apt. 208  
 Madison, WI 53703

DEADLINES: Tuesdays  
 OF SPECIAL INTEREST  
 1380 KWK MO St. Louis 12/7 Definitely on the air... Variety says format to be "contemporary hits" aimed at the 18-35 audience. (Top 40) (RS)  
 1520 KMAV ND Mavville r/c per phone call is 2nd Thurs. 0145-0200. ND # 14. (AOK)

THE ALL NIGHT SITUATION  
 560 WIND IL Chicago 12/11 MM Did not leave the air for third week in a row. (RS)  
 650 WSM TN Nashville 12/11 Off approx. 0130-0500 all night, but 3 1/2 hrs. of OC, TT and music. (RS)  
 700 WLW OH Cincinnati MM 12/11 Approx. 0130-0500 Off all night. Also off MM 12/18 approx. 0130-0300. (RS)  
 1000 WCFL IL Chicago 12/11 Did not leave the air until approx. 0230 this MM. They've been doing this for 2 or 3 months. 12/18 Late s/off again 0300. (RS)  
 1090 KAAV AR Little Rock MM 12/18 on all night, third week in a row. (RS)  
 1100 WWWE OH Cleveland 12/11 Approx. 0045-0345 off. 12/18 Approx. 0000-0300-off again. (RS)  
 1220 WGAR OH Cleveland MM 12/11 Approx. 0140-0445 off, not a peep out of them all night. (RS)

REGULAR DX-TYPE LOGGINGS  
 560 WQAM FL Miami 12/16 0610-0614 ID w/ calls, R&R mx, another ID. Signal poor, w/ dips & fades, mixing w/ unid stns. (JL)  
 590 WDLF FL Panama City 12/9 1835-1847 Ad for 7-Up, other ads, ID: "The LP Station," R&R mx, "59-DLP" ID. Signal poor, w/ QSB, QRM mainly from WPLO. (JL)  
 600 KSJB ND Jamestown 12/10 0501-0514 Fair, in and out with CFQC-SA. (RS)  
 610 WIOD FL Miami 12/16 0602-0605 nx, calls ment'd frequently, sports, wx (temp. 65°), R&R mx. Signal fair to poor, w/ dips and fades, QRM from KILT, WDAF. (JL)  
 630 KHOW CO Denver 12/11 0203-0210 nx, Denver wx (temp. 17°), R&R mx, ID w/ calls, DJ Chuck May. Signal fair to poor, w/ dips and fades, QRM from subdued KXOK. (JL)  
 690 KEOS AZ Flagstaff In fair o/ CMBC 12/16 0040-0055 fade out w/ rock mx, "Super 69" ID's. (AOK)  
 710 CKVM PQ Ville Marie 12/7-12/8 2345-0030 Strong over WOR and CJRN w/ play in FF, followed by easy or BFL music. Very subdued, could have sworn it was FF CBC outlet. Denis, can you help? (RS) (NRC log says CKVM is on CBC FF net so CKVM likely, this reception should have been listed as tentative but I goofed-ed)  
 930 \*WFMD\*MD\* Frederick Good on ET o/ WGNT, WEOL 12/13 0255-0302. (AOK)  
 950 CFAM MB Altona 12/10 0520-0545 Strong over WWJ with long pieces of classical music. ID mentioned two //, CJRB-1220 and CHSM-1250. (RS)  
 810 WQIZ SC St. George 12/16 0631-0634 Agricultural nx, calls. Signal poor, intermittent, w/ QRM from KCMO, WSJC. (JL) (out of order, sorry folks--ed)  
 1070\*WKDR\*NY\* Plattsburgh Booming in on ET 0032-0040 s/off 12/12. (AOK)  
 WFLI TN Lookout Mountain 12/11 0138-0139 SID, disco mx. Signal fair, w/ QSB, but killed 0139 when WDIA resumed broadcasting. (JL)  
 1100 KREX CO Grand Junction 12/18 0200 Good w/ nx and s/off. (RS)  
 1220 CJRB MB Boissevain (tentative) 12/10 0525-0545 Way under WGAR-OH, music was // 950 but just couldn't dig out ID. (RS)  
 CJRL OH Kenora (Relay CHMM-FM) 12/11 0140-0230 With WGAR off this was usually dominant with mostly CWM. (RS)  
 CHSC ON St. Catharines 12/11 0140-0230 Normaly way under, with T40. (RS)

CKSM PQ Shawingan Falls 12/11 0140-0230 Middle station (strength wise) in 3 way Canadian battle. (RS)

1230 WCWA OH Toledo Larry King Show MM 12/11 0215 no sign of usual WCOL, WUBE. (AOK)

1240\*KCCR\*SD\*Pierre Clearly above the mess w/ ET ID "KCCR in Pierre South Dakota" 0150 MM 12/11. (AOK)

WGBB NY Freeport Surfaced briefly w/ nx MM 12/11 0205. (AOK)

1250 WEMP WI Milwaukee 12/11 & 12/18 (MM) Did not leave the air, but operated with reduced power. (RS) (Now if I would get my act together this would have been up above with the other AN info--ed)

1350 WSLR OH Akron 12/4 0438 Good reception, found this newie when looking for the KRRR test. OH #30. (MLH)

1360 WGEE WI Green Bay 12/14 0137-0138 "This wx has been brought to you as a service of WGEE." Country-pop tune by John Denver. Signal quickly demolished by KXOK, KRY5, and KBUK. (JL)

1410 WING OH Dayton 12/11 0302-0306 Calls, ID: "WING" pronounced as one word, wx (temp. 20°), R&R mx. Signal good to poor, w/ QSB, QRM from several stns. WUNI off. (JL)

1480 KLVX TX Pasadena 12/9 2026-2035 Rice Owls basketball, ad for Budweiser. Confirmed by telephone. Signal fair to gone, w/ hvy QRM from sev. stns. This stn usually broadcasts in SS. (JL)

1530 KGTV TX Georgetown 12/9 1832-1833 s/off w/ calls, SSB. Signal fair, w/ slight flutter. (JL)

1600 WARU IN Peru 12/8 0558 Good s/on announcement then SSB. (RS)

WAAM MI Ann Arbor 12/8 0537 Radio 16 WAAM ID popped thru early morning mess. (RS)

A TIP OF THE HAT TO THESE CDXR REPORTERS

MLH - MICHAEL L. HOGAN, 13910 Chippewa Ave., Apt. 1, Burnham, IL 60633 (TRF, 1976 model)

AOK - ANDY KWIATKOWSKI, 9624 Avenue M, Chicago, IL 60617 (Panasonic RF-2200)

JL - JOSEPH LANDRY, 11643 Baylor Dr., Baton Rouge, LA 70816 (TRF, 350' LW)

RS - ROBERT STEADMAN, 2758 S. Wentworth Ave. Milwaukee, WI 53207 (TRF, RF-2200)

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NANCY HARDY, Editor

2301 PACIFIC AVE.

ABERDEEN, WA 98520

**western dx roundup**

ALL TIMES ARE EASTERN LOCAL

Phone for hot WDXR tips: (206)532-6827 till 10:30pm(PLT) nightly--prepaid calls only

DEADLINES: Thurs. 1/11, Thurs. 1/18, Thurs. 1/25

(WJH) Bill Harms-865N 160W #2-Provo, UT 84601  
Sony Digimatic clock rx, wedge

(RL) Robert Lake-11610-111 Ave.-Edmonton, AB  
(no rx listed) T5G OE1

(ASL) Albert Lobel-P.O. Box 26762-San Diego, CA  
Realistic DX-150A, 92126  
Sanserino loop, 85' center-fed LW

(bp) Bruce Portzer-6546-19 NE-Seattle, WA 98115  
HQ-180A, FRG-7, 4' loop, SM-2

(MFS) Matthew Shugart-12561 Groveview St.-  
Garden Grove, CA 92640

(RW) Robert Wien-945 Desert Isle Dr.-San Jose, CA  
GE TRF long-range portable, 95117  
SM-2

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630 KHOW CO, Denver 12/18 0448 very strong & clear, only thing on freq.; ad for ski package in Loveland. Did they switch their DA around? (RW-CA)

680 (KNBR) CA, San Francisco off 12/15 & 12/16. Don't know s/off times; Sat. morn. s/on 0736. OC much of time. (MFS-CA)  
+As I'm sure you're aware---off 12/14 and 12/15 (0300-0730 approx.), 12/16 (0400-0750+). (bp-WA)  
+12/14, 12/15 12/16 0415-0800 totally off these periods except for occasional OC which didn't bother too much. Occasional ID's. (RW-CA)

680 \*WGAW\* WV, Charleston 12/16 0534 coming out of jungle, end of Ae rx then beautifully clear jingle ID then into C&W mx. Also came in at 0500 w/same nx.

Are they on 50kw day pattern at this time? (RW-CA) (This was an ET w/50kw from 0500-0600.--NH)

+Booming in on test 0502-0550+ w/MOR & C&W mx and frequent ID's and wx. State #45. (bp-WA)

+12/16 0500-0600 intermittent, often quite good w/several clear ID's, C&W mx, Ae rx 0530. Think I hrd. mention of KNBR being off, word "members" at one time may have been mention of IRCA. (MFS-CA)

680 CFTR ON, Toronto 12/16 0455 weak on channel w/XELG nulled, but came up to ID "...on 68, CFTR..." then back down into mess, u/XELG. (RW-CA)

690 KEOS AZ, Flagstaff 12/16 s/on at 0800 so no longer AN as it was in Feb. when heard before. (MFS-CA)

690 KGGF KS, Coffeyville 12/16 0658 weak w/ preacher, then some type of farm report show w/ ment's of Coffeyville; also some type of discussion on farming procedures. New. (RW-CA)  
+Good w/ID at end of "Country Crossroads" 0628 12/16. XETRA off. (bp-WA)

690 KHEY TX, El Paso 12/16 0422 tentative u/XETRA w/C&W, very weak. KNBR-680 off. Did hear "K-E-" at 0420, so probably them. (RW-CA)  
+12/18 0400 good sig. w/XETRA off. Lots of KNBR-680 slop. (ASL-CA)

690 CFRG SK, Gravelbourg 12/16 0655 good at s/on, topping XETRA & others. Heard 0 Canada, then full s/on details by YL in FF, then OM in FF at 0658. New, totally unexpected! (RW-CA)

690 (XETRA) BCN, Tijuana off a lot lately; 12/15, 12/16, 12/18 before 0400 till approx. 0830 each morning. Also understand they were off 12/13; on 12/17 when checked around 0700. (MFS-CA)

730 (CKLG) BC, Vancouver/noted off 0605 12/18. Only XEX noted in their absence. (bp)

940 \*KPRE\* CA, Fresno 12/18 0525 noted w/TT & occasional OC's. CJIB in there. (RW)

980 (KFWB) CA, Los Angeles 12/18 off for rare SP till 0800. CKRM heard, also unID SS after 0700. (MFS-CA)  
+12/18 0321 noted totally off, only CKNW/CKRM there. (RW-CA)

980 CKRM SK, Regina 12/18 0338 w/KFWB off; occasional TT may have been KFWB. C&W mx, lots of SK talk, ID's as "RM". Phone number for call-in of 545-9800 checks w/MaBell in SK. Called station but no answer; heard same song as on air interfering w/phone lines. (ASL)

990 KTKT AZ, Tucson 12/18 0453 coming in above mess of OC's w/ad for something in Chicago, then ID. Hard to read. (RW)

1000 KKIM NM, Albuquerque regional wx into s/off 12/19 1859-1900. Booming signal. (WJH)

1080 KWJJ OR, Portland 12/12 1911-1913 C&W mx, TC, ID, traffic report, & local ad. #450 here. Good, o/KRLD. (WJH-UT)

1110 \*KRLA\* CA, Pasadena 12/18 0455 quite loud w/ TT o/KFAB. (RW-CA)

1210 WCAU PA, Philadelphia 12/4 0306 w/ID, wx. (ASL-CA)

1220 CJOC AB, Lethbridge 12/4 0311 w/ID, wx, ad for a record store in Lethbridge. (ASL-CA)

1230 KYVA NM, Gallup 12/18 0709 a Navajo lang. program w/top 40 hits. Frequent ID's and EE words used. Topping the freq. (WJH-UT)

1240 KELK NV, Elko 12/14 1020 noted w/ID into nx. Mixing w/QRM. (WJH-UT)

1250 KSWW AZ, Wickenburg 12/18 1928-1929 very weak signal, but caught ID & location in s/off. W/the Mexican. (WJH-UT)

1260 KPIN AZ, Casa Grande 12/18 1913-1915 s/off by OM. Fair signal, but o/QRM. (WJH-UT)

1370 (KEEN) CA, San Jose 12/18 0313 totally off all morning, no OC's either. Was also off on 3rd MM in Dec. 1977, so maybe an annual thing. (RW-CA)

1380 (KGMS) CA, Sacramento 12/18 0332 noted totally off leaving 1380 more or less open. (RW)

1380 KRKO WA, Everett 12/18 0335 What was this doing on? I thought they weren't NSP! Weak, but all alone w/ment. to call for the handicapped, then SID. Weak for

5kw at that distance, KMPS-1300 much stronger. (RW-CA) (KRKO has been NSP the past few months, as mentioned in past WDXR's.--NH)

- 1470 \*KXOA\* CA, Sacramento 12/18 0420 strong w/TT's of varying pitches, then periods of hum tone, then stretches of OC. (RW-CA)
- 1490 KOWL CA, S. Lake Tahoe 12/18 0434 good, well o/KRNR/KDB, w/basketball scores, then wx, back into Beatles mx. (RW-CA)
- 1510 KDJQ AZ, Mesa ex-KDKB 12/19 1018-1020 Finally heard w/new calls "15--DJQ" SID. Bombing o/KGA, KDKO, etc. (WJH)
- 1530 WCKY OH, Cincinnati 12/18 0530 w/ID into classical mx. Fair w/KFBK OC. (WJH-UT)
- 1560 KPMC CA, Bakersfield 12/18 on earlier than usual (I think) at 0800 w/SS program. (MFS-CA) (Now s/on 0730 Mon-Sat, 0800 Sun, w/SS program.--NH)
- 1560 KCAA SD, Aberdeen 12/16 0604-0608 heard w/CBS nx, ID into soft C&W mx. State #32 here. Good signal. (WJH-UT)

NEW STATION:

- 1070 CKST AB, St. Albert was sked to begin RS Sat. 12/23 or Sun. 12/24. Has been testing during daylight hours only w/ mainly MOR mx. First noticed testing 12/20 1230. (RL-AB)

DX TESTS:

- 670 (KDLG) AK, Dillingham no sign of DX test 12/18. (bp-WA)
  - +12/18 0515-0615 I tried but KNBR-680 sloop was too much. WMAQ s/on at 0605 and unID Mexican at 0607 wiped out all chances. (ASL-CA)
  - +12/18 0535 tried, but no way could it make it thru KNBR-680 sloop. (RW-CA)
- 1190\*?KADE? CO, Boulder 12/4 0231-0259 possibly. No ID heard, only TT. (ASL-CA)
- 1240 \*KPPC? CA, Pasadena 12/4 0430-0500 very good w/tones, pop mx, very frequent ID's.(MFS)
  - \*?KPPC? 12/4 0331-0401 strong possibility w/TT in null of local KSON. GY hash too much for voice to be intelligible; if there was any voice. Did manage to hear XECG for a new one of this freq. while listening. (ASL-CA)
- 1360 \*KRRR? NM, Ruidoso 12/4 w/TT, ID u/local KGB. Loud tone w/faint ID at 0345. (ASL-CA)

UNIDS:

- 680 Someone ended UPI Audio nx 0504 12/15. Probably Texas. (bp-WA)
- 680 MOR vocals occasionally heard 0445-0454 12/15 o/u XELG. (bp-WA)
- 690 Someone w/s/on 0700. Good w/SSB but then lost. Could be almost anyone...(MFS-CA)
- 740 CBL? maybe my UNID from last week. Noted w/same format 12/18 0456-0500. ID at 0458 "This is CBC? Toronto?". Signal faint. Will try again. (WJH-UT)
- 1370 CHPQ? 12/18 0315-? only thing on freq. all morning. Mx sort of an easy MOR'ish, mostly Christmas songs. Thought I heard BC hockey scores at 0405, but unsure. Is CHPQ NSP? If not, who did I have, CPOK or CJWW? (RW-CA)

Welcome to WDXR, Robert. It's always nice to have a new reporter from Canada. The column has been sort of on the short side lately, everyone must be DX'ing the new splits, hi. ♡

~~~~~ John Zondlo  
**eastern dx forum** 6617 Maryland  
 ~~~~~ Hammond, IN 46323

Allen W. Luckey-26 Gene Ave.-New Castle, DE 19720  
The past couple of weeks were highlighted by good midwestern openings here, following mostly AU conditions during November. Locally, WTUX-1290 has changed calls to WJBR, same as their FM counterpart, and changed to beautiful music. Now ID's as "Radio 13". I tried Mark Connelly's mod for the TRF and noticed an appreciable difference. It does help get rid of adjacent channel sloop. I found the 1K pot to be easier to work with. This is to date the only mod I've attempted, as the dial recalibration job gives me chills whenever I think about it. No qualms about working on everyone else's equipment at work, but I tend to ruin my own things when I work on them, hi. I managed to get a rep out from the local power company to hear my QRN and he managed to trace

the problem to a bad switch nearby. He promised it would be taken care of within 2 weeks. It will be nice. Best wishes to everyone for a Happy New Year. 73's.

Gary Siegel-2728 106th-Toledo, OH 43611  
Biggest bit of news on the radio scene here was the announcement on 12/5 by the Storer Broadcasting Company of their plan to sell all their radio holdings. This includes WSPD-1370, which is Toledo's oldest station, having gone on the air in 1921 as WTAL, but as WSPD since 1927. The decision by Storer to sell almost certainly implies that either WSPD-AM or WSPD-TV channel 13 will have to change call signs. A change on the AM would be both extremely disappointing and a disaster. Disappointing because of the long time heritage involved with the call sign as one of broadcasting's pioneer stations, and also because call signs are more an important part of a station's identity on radio than on TV, the potential demise of WSPD-AM would have an even greater impact. People here are deeply associated with 1370 being WSPD and likely would not be receptive as much to any other call sign there. I don't see this as true with TV call signs. Thus a call letter change on the AM would be a disaster in that sense. (continued in next DXM-jz)

Michael L. Hogan-13910 Chippewa Ave., Apt. 1-Burnham, IL 60633

I would first like to start with a re-introduction. I am 25 years of age and just recently married several months ago. I let my membership in IRCA lapse this past May after being in the club 6 years. I now have renewed my membership and am very glad I did. It looks like IRCA is still the fine club that it was many years ago when I first joined. It looks like the membership in general is interested and concerned about what IRCA does. My occupation is that of a psychological practitioner. I hope to attain my MA in Counseling Psychology within the next few months. Several years ago at the ANARC convention I made an address entitled "The Psychology of DX'ing". Now, I would like to do further research into this subject. I would appreciate any comments in regards to that subject. My next forum will tell about my DX accomplishments and involvements. 73's de Mike.

**western dx forum!**

Rick Heald  
1581 - 20th Avenue  
San Francisco, CA 94122  
Ph: (415) MOnrose 5-4201

GARY LARSON-2806 N. LINCOLN-BURBANK, CA. 91504  
+++++  
Here are some things of interest I found in the Nov. Standard Rate & Data Book -- KROQ (SS since 8/78) has its offices at 6290 Sunset, L.A. 90028 (213) 461-4993. Not sure if its prgms originate at old Pasadena address or some unknown place. Going through this book I came across several call changes & new stns. KGEZ 1230 is now KGAM w/a BM format. KLOT 1310 is owned by Sunburst Broadcasting Corp. KPFE 940 has moved to 999 N. Van Ness, Fresno 93728 (209) 441-7600. A new AM is KNCQ 1250 .5kw 212 W. Main, Grass Valley, CA. 95945 (916) 272-3424. KBON 1240 is now KDIG and their FM is KBON 103.9, Lake Arrowhead, CA. w/38 wattal KLAN 1320 Lemoore, CA now KQIQ w/top 40. XEPRS has moved to an office in nearby Glendale at 1222 S. Glendale, (213) 526-8600. Also, KCMJ 1010 is at a different site, 4200 E. Palm Canyon, Palm Springs, CA. The XR is still at 300 Radio Rd., I think. Hope you all had a good Christmas and New Year.

DAVID JACKSON-4281 ENCINITAS WY-UNION CITY, CA. 94587  
Ph: (415) 471-7668  
+++++  
Concerning Gary Simpson's feature on XERB in the 12/16 DXM: yes, X-PRS does broadcast in EE, each evening, mostly evangelists. At midnight (PLT) til 0230 they go "oldies"--w/DJ Bill Bird--and are the top low-rider stn in Los Angeles. The stn does have quite a history; not only did Wolfman Jack once hold their contract (w/250kw, I think), but they've also had Artie Laboe & Rick Ward (one of the best) as their DJ. When Wolfman ran the stn, the owner was Inter-Americans de XERB of Monterrey, NL, but I'm not sure who owns it now. I know they were XERB until at least 1970, tho. Their U.S. contract is currently owned by a SoCal outfit that programs the Bird show, etc.,w/ Keith Bennett as GM. They are a super bunch of people & are much friendlier to deal w/than most U.S. stns. XR is still at Rosarito Beach, BCH, using power "equivalent to 150kw" (actually 50kw) & their address is "Radio 1090 Express", 1222 S.

Glendale Ave., Glendale, CA. 91205. They come in quite strong here every night (w/KFAX-1100 just 3mi/5km from here) and I get a kick out of their mx and stuff. Oh well, No limericks this time, hi. Stay tuned and only the best DX to you de DFJ.

NICK HALL-PATCH-3272 ALDER ST-VICTORIA, B.C. V8X 1P2  
 + + + + +  
 Although DUs were dominant here immediately following the 9kHz changeover, the high-powered Japanese in 747, 774, and 828 did manage to creep through from time to time. It wasn't until the geomagnetically quiet period of Dec 6 to 10, that high latitude Asians were heard here. But these receptions were quite unlike anything TP that I've heard before. For starters, the best signals were all on the high end of the band, and previous TP openings have usually favoured the low end of the band. This time signals peaked just around local sunrise, w/virtually no signal an hour and a half earlier. Some days, Chinese mainland stations would be strong (1512 & 1575; Colin Newell logged the CC pips on 1476 too), other days, they'd be barely there. But the low band levels (648 & 655) were always mediocre. On the morning of Dec 9, carriers or audio were noted on nearly every channel from 1278 to 1602...where do you start in such a situation? Although cx continued quiet for many days, no TAs were noted, except for traces of a carrier on 765 which was probably Dakar. Solar flux levels were 200+ however, would that account for no TAs and dominance of hi-band TPs????  
 Randy?? That's 20, so 73.

MATTHEW F SHUGART-12561 GROVEVIEW ST-GARDEN GROVE, CA 92640  
 + + + + +  
 Well, well, what a week this has been...XETRA 690 & KNBR 680 both being off the better part of a week restores one's faith in DXing! I hope many of you had a chance to hear WCAWs TEST on 12/16. If you did, please report to Mr. Grady, Dir. of Engineering. Thanks to those who helped me spread the news of the TEST: Rich Segalas, Joe Landry especially. I was impressed w/WCAWs strength although I chose them to test because I figured they'd be favourable to the West; also, Mr. Grady told me that once they forgot to cut the power & were hrd in Denver w/KNBR on so they do have a good signal when 50kw. (Who was it in Denver who reported WCAW? Gene Martin, per chance?). It speaks very highly of KNBR that Bruce Black called both Rich and Mike Grady about the silent periods. (KNBR was also very thorough and open to IRCA at the '76 IRCA SF Convention-RtH). Apparently more SPs may be on the way as these were no scheduled! The Beverage party at 29 Palms 12/17 got rained out so not much heard. There should be some reports to WDXR anyway. Is NRC Log correct that KCJJ 1560 has sked of 0015 GLT-ISS? Those are weird hours. Why? All for now. 73 de MFS.

RICK HEALD-1581 20th AVE-SAN FRANCISCO, CA. 94122 Ph: (415) 665-4201 to 2200 P1T and prepaid  
 + + + + +  
 Happy 1979 to all! Hope this will be a great DX year for all! Did a little dial twisting on Christmas morning starting around 0100 P1T, and per RWs tip, indeed KXRX 1500 has developed a MM SP. But, only the usual stuff: KROQ, KSTP, traces of KUMU. Reminds me of MM years ago when KXRX had then a MM SP. KYA 1260 continues their MM SP, but KGLL does not, hi. They use to go off at 0030 P1T. They were on w/a Christmas prgm, w/another unIDed doing same thing, and that I hrd SS, and a "Radio Victoria" ID, any suggestions? But....tuned past 740 around 0202,P1T, KCBS had cut their carrier, was a het, tuned up the FRG, and lo and behold Polynesian style church music, then male tlkg in FF, then dawned on me what I had, Midnight Mass from Tahiti 738. Managed to hit an S/3 peak reading during the Homily, stayed w/it for an ID at 0300, and at 0250 on went KCBS's carrier. \$\$\$\*\$\$\$\*! So, tuned elsewhere, came back to 738 15 min, later, KCBS had thrown on a tone. \$\$\$\*\$\$\$\*!2, hi. Like they say: better luck next time. Noted that KROQ was playing Salsa & Tropical mx rather than Ranchero, unusual in that the latter would be more representative of the SoCal SS population. Still waiting to grab KFIA 710. May try New Years' Day, their target date, to start the new year w/a new station. See ya later. Keep the Forums coming. 73 de RtH..

ROBERT WEIN-945 DESERT ISLE DR-SAN JOSE, CA. 95117  
 + + + + +  
 Well, the KNBR SP has come and gone. For me, it was highly profitable, w/a few new catches including: CMKP 670, on 680: OFTR, XELG, WCAW, on 690: KHEY, KGGF, & CFRG, along w/TIHB 700. 1978 also fairly profitable w/133 veries revd. KEEN 1370 also off last MM (date?-RtH) w/CHPQ making the QRM. For the last 3 mos. (Oct, Nov, Dec), veries include: WLAC, KXA, KUZZ, KPVO DX TEST, KIUP DX TEST, KEPS 710, KTRT 1400, KRKG 1490, KVEG 920, YVOZ 1200, KXLF 1370, KDIG 1240, KUEN 900, KOHJ 1010, KUOM 770, KTD0 1230, OKAL 1050. PJB. KIKI, KREM 970, KPRQ 1230, KXOA 1470,

AGRL 940, KRRR 1360 DX TEST, and today KFIA 710. In their verie, KFIA mentioned that they will be going on the air on 1/1/79 @ 0600 P1T. They will broadcast w/250w DA from 0600-0000 P1T, and later on 24 hours. They will be religious, similar to KXEG 1010, although not affiliated. Their address is 5738 Marconi Av, Carmichael, CA. 95608, Ph: (916) 485-7710. Lately, they test w/unmodulated carrier for hours on end during the day, occasionally IDing. On v/1, letter-head is of "American Bible Radio", v/s is Elward L. Robertson, Operations Manager, on bottom it says, "Keep faith in America, dial inspirational radio 710". Did not include promised QM or an article about them in Dec. issue of Sacramento Magazine. That's line limit. 73.

MORT MEEHAN-7682 NORTH STAR AVE-TWENTYNINE, PALMS, CA 92277  
 + + + + +  
 Domestic DX is wonderful although I've done little listening other than trying evenings for brief periods. Last nite, 21 Dec, signals like WIW, WIS, WSM, etc. reached local like volume. I could even enjoy listening to the nx on WCBS it was that strong. At sundown, I get stns like KPOW Powell and KVSF Santa Fe fighting for control on 1260. When my local s/off 1250 @ 1930 EST I might null KPMS and bring in WREN Topeka or KWSU Pullman...crazy. The FCC seems against super power AM and seems to want to reduce clear channel and reduce clear channel stns to only 750 mi protection. Also wants to put about 225 new AM stns on the present 25 clear channels and put more stns on channels next to clear channels. They also have a plan to reduce regional stns protection to not more than 100 mi to add more stns. Crazy, crazy, crazy. Storer Broadcasting, deep in TV and QATV, plans on selling its radio stns. KTNQ & KHTZ-FM Los Angeles are on the block for \$12 million. They also own WHN New York, WSPD Toledo, WLYF-FM Miami and WLAK Chicago. They may not be able to sell WLAK for over 2 yrs as FCC requires they own the station for 3 yrs before a sale. 73. (Several lines deleted per Mort's authorization to conform w/line limitation-RtH).



## FCC Seeks 700 AMs For U.S. Submitting Proposal To Geneva Meet; NRBA Opposes

By RAY HERBECK JR.

LOS ANGELES—While the Federal Communications Commission is seeking 700 more AM stations for the U.S. at a Geneva meeting next year, the National Radio Broadcasters Assn. stands firmly opposed to any broadening of the spectrum, according to NRBA president Jim Gabbert.

"I'm against the FCC proposal," says Gabbert, owner of K101-AM-FM in San Francisco. "In most areas, there are too many radio stations as it is."

The FCC has submitted a request to the State Dept. which lists priorities for the American delegation to the World Administrative Radio Conference in September 1979.

The international meeting is held every 20 years to carve up the world's radio spectrum and allocate its usage for the following two decades. The confab lasts about 10 weeks.

Among a list which, generally, seeks for the U.S. a broader share of broadcasting frequencies on land and via satellites, the FCC wants to expand the AM broadcast band from its present high of 1600 kz to 1800 kz, allowing for about 700 more stations.

Gabbert and the NRBA champion radio deregulation. But Gabbert sees no contradiction in opposing what amounts to more

competition in the form of more radio stations. He would rather see a free marketplace, unbridled with FCC rules, for the stations now on the air.

"For example, look at Hawaii," he says. "There are 31 stations on Oahu alone and soon to be 32." (His own KPIG-FM, joins Gabbert's KIKI-AM there.) He believes that too many signals in one market cause a disservice to the public.

He describes the cycle as an attrition due to the lack of station income. First, public service features, a costly item, are axed. Next goes the news, another expensive unit. And, finally, the attrition will reach music programming in the form of DJ quality. "The less experienced, less expensive DJs will be retained while the better ones, commanding higher salary, are let loose," he says.

He is yelling caution, not danger, because much will depend on where the new bands are allocated if they become a reality. Gabbert also points to the hardware difficulty. "How long will it take for all those old receivers, which don't stretch to 1800 on the dial, to be replaced?"

If the 700 stations are added, their effect on music programming should not be felt for about 20 years, he says. "much like it was with FM."



DECEMBER 16, 1978 BILLBOARD

# DX Worldwide



BRUCE PORTZER,  
Editor

All times GMT/UTC

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SEND ALL FUTURE REPORTS TO:  
Elliot Strauss - P.O. Box 168 - Red Bank, NJ 07701  
As mentioned earlier, his deadline will be Tuesdays

## ATLANTIC DX ROUNDUP

- 548 ALGERIA, Oran, poor in slop w/AA mx 2342 12/11. (Connolly, MA)
- 612 MOROCCO, Sebaa-Aioun, xlnst w/AA violins 2339 12/11. (Connolly, MA)
- 702 MOROCCO, Sebaa-Aioun, to good peaks w/AA yelling & singing 2347 12/11. (Connolly, MA)
- 746 UPPER VOLTA, Ouagadougou, fair w/FF-sounding talk o/ 747 European het 2325 12/11. (Connolly, MA)
- 756 PORTUGAL, Lisboa, noted w/male operatic vocal o/SAH Flutter 2334 12/11. (Connolly, MA)
- 765 SENEGAL, Dakar, fair w/native instrumental mx 2323 12/11. Good w/native mx 2304 12/16. (Connolly, MA)
- 774 ? UNID/SPAIN, awesome OC again noted o/Spain (which had SS talk) 2349 12/11. (Connolly, MA)
- 782 ? UNID, carrier in slop, maybe Portugal is back here? Heard 2352 12/11. (Connolly, MA)
- 819 MOROCCO, Rabat fair w/male AA chant 2355 12/11. (Connolly, MA)
- 827 ? UNID, station still here w/a female operatic vocal o/u 828 het 2354 12/11. (Connolly, MA) (Possibly Libya per Mike McGovern's report of a couple weeks ago. bp)
- 936 MOROCCO, Agadir, poor w/male AA sing-song talk 2307 12/11. (Connolly, MA)
- 1008 ? UNID, fadey carrier in WINS slop 2305 12/11. (Connolly)
- 1034 PORTUGAL, Porto Alto, to good peaks w/man in PP, then disco rock 0039 12/13. (Connolly, MA)
- 1044 MOROCCO, Sebaa-Aioun, fair w/Barbra Streisand/Neil Diamond song, slopped by WHN 0049 12/13. (Connolly)
- 1053 ENGLAND, BBC, to good peaks w/man in EE, badly slopped by WHN 0042 12/13. (Connolly, MA)
- 1061 PORTUGAL, Norte, back here from 1062(!), male operatic vocal fair-good o/slop 0005 12/13. (Connolly, MA)
- 1197 ? UNID, TA carrier during low-latitude cx 2226 12/16. (Connolly, MA)
- 1349 t MAURITANIA, African mx fair 2235 12/16. (Connolly)
- 1404 GUINEA, Conakry, fair w/native flute mx 2132 12/16. Excellent - like a local w/native singing & guitar mx - very enjoyable - 2236 12/16. (Connolly, MA)  
+Maybe this w/rhythmic mx, drums, etc 2320; trumpet and drums 2327 & amnt not in EE/FF, then into inst mx, this at Joe Fela's on HQ-180 w/S9+10 in South Plainfield, NJ. This on 12/13. (Mount, NJ)
- 1467 MONACO, Monte Carlo, good w/hymns 2358 12/11. (Connolly)  
t +One loud het on high side of WOMB but no audio noted 2308-2400 12/13 & nothing noted much after that. Het more than 1 kHz, but I wouldn't specifically know a 7000 Hz sound. (Mount, NJ)
- 1521 ? UNID, het on aurora-weakened WKBW during African opening 2245 12/16. (Connolly, MA)

UNID CARRIERS ROUNDUP (TA DIVISION) - from Mark Connolly:  
Carriers on 719 (likely Norte), 729 (Spain?), 909 (BBC?), 927 (Belgium?), 1413 (?), 1305 (Senegal?), all noted about 2330 on 12/11.

## PAN AMERICAN DX ROUNDUP

- 527.5 COSTA RICA, Cartago, TICAL, weak signal but good audio due to lack of slop & unusually quiet AC mains this night; conventional sounding LA mx 0747 12/14. Again 0602 12/17 w/LA mx & SS talk. (Everitt, OK)
- 540 MEXICO, San Luis Potosi, XEWA, 12/18 good w/kids talking or spot, wild & crazy DJ, "Birdland" jazz inst 0836, spots & ID as "XEW en la ciudad de Mexico." Into bells 0840. (Mount, NJ)
- 575 COSTA RICA, San José, R. Nacional, very good 1110 12/18 w/lotsa SS talk, apparently a pgm guide, w/occ interjected bars of mx, incl. "White Xmas". (Everitt)
- 615 ? UNID, here again, carrier in slop w/occ mx 0740 12/14. Mx not similar to most LA mx, more like US inst "Beautiful" mx. Could be Ecuador, although I can't seem to get a good loop bearing due to slop. (Everitt)
- 640 VENEZUELA, Puerto La Cruz, YVQO, loud w/"Summer Nights" from "Grease", then ID & SS talk 0105 12/13. (Connolly)
- 660 COLOMBIA, Cali, HJUM, 12/18 fair but alone 0822-0832 w/antrs of both sexes. ID 0829 "...radio, Radio Uno de

- 663.5 ? Cali...", gave freq, calls, "Emisora RCN la Radio de Colombia" & talk; then louder 0830, said "660", tape of cheering, 3 spots, then more shouting & whistling, & more talk. New w/WNOC off. (Mount, NJ)
- 670 UNID, finally, after months of searching I detected a carrier here 0650 12/17 w/no audio coming through; very weak & in Mexican slop. Loop bearing almost impossible due to metal surfaces nearby at new QTH. (Everitt, OK)
- 670 GUATEMALA, Guatemala, TGRT, 11/20, R. Fabulosa ID 0400. (Krueger, TX)
- 575 COSTA RICA, San José, TICN, good w/LA mx w/lots of organ, "Sonora" interjected 0254 12/14, slight 100 Hz het noted on approx same loop bearing at old QTH. Even better 0618 w/very good-xlnst sig w/monotonous LA mx & lots of voice-over amnts, this time het gone. Again 0645 12/17, xlnst w/SS talk, "Sonora" ID sung by YL, into LA mx. First time I've hrd an SID here. (Everitt)
- 690 COLOMBIA, Bogotá, HJCO, good 0756-0800 12/18 w/vocals & TC, then "Aqui Colombia...La Voz de Colombia" ID, mentioning freq, "La Emisora de mayor --- musica nacional". QRM from Cuban which had IDed a minute earlier. (Mount, NJ)
- 690 MEXICO, Tijuana, XETRA, 12/18 0900 off air; they've been off lots of mornings lately per Randy Seaver. Maybe they've dropped their NSP. I hope so. (Label)
- 699 DOMINICAN REP., Valverde, HJDC poor-fair w/LA mx 2257 12/16. (Connolly, MA)
- 700 COSTA RICA, San José, TIHB, very good w/LA mx & OM SS ancr w/"Relej" mention in null of JBC 0623 12/14 at old QTH. WDW apparently either off or unusually well-suppressed by aurora. (Everitt, OK)
- 700 JAMAICA, Montego Bay, JBC, very good-xlnst in TIHB null (w/approx 2 Hz SAH) 12/14: 0615 w/"It's Beginning to Look a Lot Like Xmas", 0627 "Joy to the World", 0629 sung promo for something unreadable, female EE talk, 0630 "JBC, Radio One" sung ID, into c&w guitar. Not hrd all that often here. Was also some LA mx u/JBC, besides TIHB. Colombia probably. (Everitt, OK)
- 705 ST. VINCENT, Kingstown, good w/BBC commentary/EE talk by man, then BBC World Service ID & theme mx (preceding mx), into rx 2300 12/16. (Connolly, MA)
- 725 SURINAM, Paramaribo, SRS, good w/talk in unid lang w/occasional interjected bars of East-Indian sounding mx 0635 12/14, in null of TILX at old QTH. Approx 20 Hz SAH between the two, SRS apparently the lower freq of them. (Everitt, OK)  
+Good-xlnst w/US soul hit, then woman in DD 2253 12/16. (Connolly, MA)
- 725 COSTA RICA, San José, TILX, good w/SS talk by high voiced YL 0637 12/14, in null of SRS at old QTH. (Everitt, OK)
- 730 MEXICO, México, DF, XEX 12/18 1027½ clear "equis-eh-equil" SID between SS pop songs. The next few songs were played back-to-back. Average signal; no sign of CKIS which was probably off. (B. Hardy, WA)  
+0032 12/15 SS nx, notes of weird electronic sounds & mx after almost every mx story. Hrd plenty of mention of "Mexico". Nx xtory from Chihuahua hrd. (Lee, CT)
- 720 VENEZUELA/CUBA, PortLamar/Colón, YVOE w/Venezuelan MA followed by SS talk/sporting event o/u CMGN w/man & woman in SS 2302 12/16. (Connolly, MA)
- 740 CUBA, Camagüey, CMJL, o/other IAS, Cuban chimes & ID 2308 12/16. (Connolly, MA)
- 750 JAMAICA, Point Galina, JBC, o/WSB w/spacey reverberated reggae mx, Carib EE talk/screaming 0508 12/17. (Connolly)
- 750 VENEZUELA, Caracas, YVRS, loud w/Caracas ads (banks, restaurants, etc), ID, totally dominant 2309 12/16. (Connolly, MA)
- 765 EL SALVADOR, YSKL net, poor-fair SS talk by man, then woman 0227 12/14. Dakar barely showing a carrier w/ loop turned TA. Again 0548 12/17, very good w/SS play-by-play futbol game //770. (Everitt, OK)  
+12/18 0540 several "KL" IDs 0540 & "Radio Cadena Nacional" ID 0542. (Krueger, TX)
- 770 EL SALVADOR, San Salvador, YSKL, xlnst & totally dominant w/SS futbol game //765, occasional fades bringing other IAS, but have never seen YSKL this good 0546 12/17. (Everitt, OK)
- 775 COSTA RICA, San José, TIW, very good w/hard rock 0646 12/14, 0649 "R. Uno" ID, into softer EZL-type rock. Again 0540 12/17, very good w/ID by female ancr, into "Jackie Blue". (Everitt, OK)
- 780 BRITISH VIRGIN ISLANDS, Roadtown, ZBVI, good o/SS LA w/disco mx, then EE talk by DJ 2311 12/16. (Connolly)
- 780 CUBA, Camagüey, CMJN, 0530 12/17 blasting in w/SS mx. Hrd ments of "Fidel Castro" & ID that sounded like: "Cuba...territorio libre America". Xlnst. (Lee, CT)

WTCAM RADIO

1111 STREET - MIAMI BEACH, FLORIDA 33142

- 810 MEXICO, Tampico, Tams., XEFW, anmts mentioned Tampico, ranchero mx, amnt w/call letters, good-poor w/QSB, QRM from WSJC, 12/16 1227. (Landry, IA)
- 825 COSTA RICA, San José, TIOS, good w/dog-barking version of "Jingle Bells", "Titania" mentions 0220 12/14. SAH of 20 Hz evident, probably the Panamanian. (Everitt, OK)
- 850 CUBA, Holguín, CMDC, SS talk by OM, mention of Habana, LA mx hrd later. Fair 0230 12/11. (Townshend, DC)
- 854 t PERU, Lima, OAXHA, nil-good in very heavy KOA slop w/ sedate SS talk by man 0653 12/14, followed by female ancr 0656; nothing really intelligible in slop. (Everitt)
- 890 COLOMBIA, Bogotá, HJCE, very good w/some SAH from mull'd & aurorally suppressed WLS 12/14; 0659 w/"La Voz de Bogotá" mentions something about "en centro Colombiana" or similar, 0700 3 note doorbell, more LV Bogotá mentions. (Everitt, OK)  
+12/16 0729 topping the freq w/clear mention of "La Voz de Bogotá". No sign of WLS. Also a 1 kHz het or TF in there. Gone moments later. (B. Hardy, WA)
- 900 BARBADOS, Bridgetown, CBC, to xint peaks, clearly dominant o/SS LAs: Barbados sports rpts by man in Caribbean EE 2321 12/16. (Connolly, MA)
- 900 GUATEMALA, Puerto Barrios, TGMA, 12/5 1142. Hrd "este es R. Amatique" in splatter from XEW null. (Krueger)
- 914 t SURINAM, Mieuw-Mickerie, strong w/OC 2323 12/16. (Connolly, MA)
- 919 COLOMBIA, Cartagena, HJAE, atop WJAR w/raucous het & SS talk by man 2324 12/16. (Connolly, MA)
- 925 COSTA RICA, San José, TICM, presumed w/good sig, SS pops, IA mx, SS talk w/Costa Rica mentions in WKY-930 slop 0610 12/17. Not at all bad in WKY lulls. (Everitt)
- 940 VENEZUELA, Punto Fijo, YVMW, o/other SSers & CBM: ad for Banco del Caribe, then sporting event w/Caracas team 2325 12/16. (Connolly, MA)
- 944 HONDURAS, Tegucigalpa, HRYW, fair-good w/occ fade to almost nil w/LA mx, OM SS ancr 0528 12/18. (Everitt)  
+12/14 0132 w/several ments of Tegucigalpa. (Krueger)
- 950 VENEZUELA, Caracas, YVKG, loud/alone on channel w/ad for something in Maracay, then sporting event in SS - different ancr from 940 but possibly the same game 2326 12/16. (Connolly, MA)
- 960 COLOMBIA, Magangué, HJHN mx in SS by OM, spots for Bank of Bogotá, then LA mx (merengue) w/male vocal. Fair-good o/WFIR (no trace of WFIR later) 2333-2335 12/19. (Townshend, DC)
- 965 ? UNID, carrier in slop, seemed to loop for South Central America or NW SA at old QTH 0718 12/14, w/occ snatches of SS talk & fast paced mx. Ecuador & Panama are candidates. (Everitt, OK)
- 975 t COSTA RICA, San José, TIAZ, most likely w/good signal & LA mx w/lots of drums & men singing in unison 0724 12/14. Again w/same format 0440 12/18. (Everitt, OK)
- 985 ? UNID, carrier in moderate slop 0445 12/18, some SS talk in slop lulls. Ecuador or Peru likely. (Everitt)
- 995 t ECUADOR, Guayaquil, HCEW2, 0728 12/14 w/weak carrier only in massive KTOK slop w/occ SS talk surfacing during quiet periods. Again w/carrier in slop 0455 12/18. (Everitt, OK)  
+12/13 0246, mention of Ecuador 0246, part of "White Christmas" by 0250 & part of "Jingle Bells" 0252. SS song called "Requertos" by male vocalist 0307. Repeat of "Jingle Bells" jingle 0310 & another mention of Ecuador 0311. A short fade 0313 followed by "La Romántica Guayaquil". (Krueger, TX)
- 1000 COLOMBIA, Cartagena, HJAR, 12/19 "RCN" ID 0248 followed by mention of Colombia, advertisement, & songs in SS. (Krueger, TX)
- 1005 COLOMBIA, Neiva, HJJR, R. Colosal, nice ID w/slogan 11/28 0403. (Krueger, TX)  
+Fair-good w/LA mx, OM SS ancrs 0522 12/18 w/ments of Colombia. (Everitt, OK)
- 1015 EL SALVADOR, San Salvador, YSC, R. Internacional 11/28 0412. Hrd the song "Amore" & slogan ID. (Krueger)
- 1035 HAITI, Cap Haitien, HVEC, 12/20 hrd "this is R. Stn LVEH" in EE, followed by information about the stn & a mention of where to send for QSL cards. S/off(?) 2400, ½ hr earlier than listed in WRTH. (Krueger, TX)  
+Good w/hymns 2342 12/16. (Connolly, MA)
- 1055 COLOMBIA, El Espinal, HJFZ, fair-good w/rhythmic SS vocals & percussion 2343 12/16. (Connolly, MA)
- 1060 CUBA, Baracoa, CMKG, assumed here w/R. Revolucion ID & mention of "provincias orientales" (eastern provs), then festive LA mx 2355 12/16. (Connolly, MA)
- 1080 h COLOMBIA, Bucaramanga, LV de Sud America is a new stn here. Hrd w/strong harmonic on 2160 kHz 12/13 from 0145. Also IDs as Cadena Lider. (Stanbury, OH)
- 1080 VENEZUELA, Barcelona, YVQW, atop weak WTIC groundwave; Christmas ads, R. Barcelona ID, then talk of Caracas & R. Rumbos network ID, listing numerous affiliates, 2216 12/16. (Connolly, MA)
- 1100 ANTIGUA, St. Johns, ZDK, good/totally dominant w/reggae mx, then ZDK IDs 2210 12/16. (Connolly, MA)
- 1110 VENEZUELA, Carupano, YVQT, loud w/Carupano ID o/others 2205 12/16. (Connolly, MA)
- 1124.6 COSTA RICA, San José, TISRHB, noted during brief stay in this part of band w/usual very good-xint sig & SS pops 0305 12/14. Also noted on car rs as het during brief errand around 0400 same night. Car rx hets also noted on several other LA splits, including 725. (Everitt, OK)
- 1135 t GUATEMALA, Retalhoulou, TGVR, weak but very readable due to lack of slop 1005 12/18 w/LA mx, well-modulated SS talk w/reverb. This is in quite often, but still have not even hrd country mention. (Everitt, OK)
- 1165 ANTIGUA, St. John's, GRL, good w/woman in EE, rigs pgm 2227 12/16. (Connolly, MA)
- 1165 a? UNID, something in there w/fair sig but fadey w/what sounded like a R. Netherlands mx rpt 0009 12/15. (Radio Lighthouse?) (Lee, CT) (Sounds like it. bp)
- 1170 COLOMBIA, Cartagena, HJNW, LV de Heroica, way atop WJVA 0259 ID 12/20. (Stanbury, ON)
- 1200 VENEZUELA, Caracas, YVOZ, dominant w/LA vocals, SS anmts w/Venezuela ments 1015 12/18; 1023 out of LA vocal w/good "Radiotiempo" ID, more anmts, faster LA mx, then yet more R. Tiempo ments. (Everitt, OK)  
+Weak w/several "Radiotiempo" IDs o/other SS stn. (Lee, CT)
- 1210 VENEZUELA, Coro, YVMN, dominant 1026 12/18 w/"Coro" ments in very heavy echoed SS anmts, rest of anmts not echoed; 1028 very good w/very clear "R. Coro" ID. Just a moment before, while checking out YVOZ, 1210 had been a complete jumble w/no clear dominant, but by time YVMN logged, it was clearly dominant & remained so for duration of monitoring. (Everitt, OK)
- 1260 MEXICO, México, DF, XEL, R. Capital, 12/6 several nice IDs by slogan around 2455. (Krueger, TX)
- 1265 ST. KITTS, Basseterre, R. Paradise, at usual superloud level w/EE gospel mx, 2229 12/16. (Connolly, MA)
- 1310 t COLOMBIA, Barranquilla, HJAK, LV de la Patria presumed the one here 2325 12/19 mentioning "Atlantico" during sports coverage. Was fighting it out w/another LA 2345. (Stanbury, ON)
- 1345 ? UNID, looping C. America at old QTH 0308 12/14; 0311 fair w/OM & female SS ancrs alternating. Very good modulation level but seemed somewhat muffled. (Everitt)
- 1350 MEXICO, Torreón, Coah., XETB, ID w/calls, Romántica mx, extremely poor, grizzled, w/QSB, QRM from several stns 12/12 0650. (Landry, IA)
- 1415 DOMINICAN REP., Dajabon, HIOS, suspected w/mx, then man in SS, weak 2242 12/16. (Connolly, MA)
- 1440 MEXICO, México, DF., XEAI, ID "Radio Ah Ee", frenetic SS pop mx, another ID. Poor, fluttering, some QSB, 12/10 0040. (Landry, IA)
- 1450 ah HAITI, there is now a Haitien here w/harmonic hrd several times, poorly on 2900a. Is probably LV de Peuple down from 1475/2950. (Stanbury, ON)
- 1518 ? UNID, LA like mx & SS talk by OM w/fair signal in very slight WKBW slop (KOMA SP) 1045 12/18. Freq varying slightly as I monitored; HIBL Dom Rep? No definite loop due to metal surfaces nearby at new QTH. (Everitt)
- 1524.5? UNID, loud high-modulation LA mx 1055 12/18. KOMA OC came on 1056, but little trouble from that in 2 kHz position. 1058 much SS talk, OM & fem ancrs. 1059 KOMA audio came on, totally smothering anything in the area. Would guess Costa Rica. (Everitt, OK)
- 1555 CAYMAN ISLANDS, Georgetown, strong OC w/fluttery fading for 1½ mntes monitored 1101 12/18. Weak carrier noted earlier on 1205 kHz. (Everitt, OK)
- 1575 ? UNID, carrier in unquenchable XERF slop w/occasional SS talk by deen voiced OM 1105 12/18. Again, no looping possible. (Everitt, OK)
- 1580 MEXICO, Hermosillo, Sonora, XEDM, Cuban-style mx, then Jingle Bells chimes followed by ID: "La Grande de Sonora." Good-gone w/marked QSB, displaced by KLOU at times. 12/12 0627. (Landry, IA)
- 1715 at ARGENTINA, Resistancia, beacon "SIS" is now apparently here. At least that ID was logged 0325-1335 12/18, weak but in the clear. Was previously listed only on LW. (Stanbury, ON) (Um, according to a 3/77 beacon log compiled by John Clements "SIS" is listed on 1715 in Puerto Asis, Colombia. bp)

PACIFIC DX ROUNDUP

- 594 t AUSTRALIA, Horsham, 3WV, very likely the one w/EE talk looping DU, sounded like a preacher, 1114-1128, then "O Come All Ye Faithful" & "O Little Town of Bethlehem" sung to 1130 12/25, then wiped out by slop. Back again 1155 w/inst mx which continued across top of hour, then accented EE male talker. No IDs & no //s found. Will keep after this one. (Portzer, WA)
- 693 JAPAN, Tokyo, JOAB, 12/18 1140 NHK ID. (Lobel, CA)
- 702 AUSTRALIA, Sydney, 2BL, assumed the source of light inst mx looping towards Australia 1108 12/25. (Portzer)



- 711 FIJI, Suva, assumed the Hindustani programming looping DU 1025 12/25. (Portzer, WA)
- 729 t AUSTRALIA, Adelaide, 5CL, 12/18 1146 possible w/strong het against XEX-730. No audio. (Lobel, CA)
- 738 t SOCIETY ISLANDS, Papeete, Tahiti, probably the male in what sounded like FF looping measured 210° (Tahiti bearing actually is 208°) 1021 12/25. Woman in what sounded like vernacular 1022 thru bad CKIG slop. No SW //s hrd but assume it was this one on late for Christmas eve activities. (Portzer, WA)
- 747 JAPAN, Sapporo, JOIB, 12/18 0935 w/EE lesson. XInt. (Lobel, CA)
- 756 NEW ZEALAND, Auckland, IYC, in well w/usual MoR mx 1133 12/25. (Portzer, WA)
- 774 AUSTRALIA, Melbourne, 3LO, noted //9680 SW 1145 12/25 w/"Silent Night" sung by chorus. (Portzer, WA)
- 774 JAPAN, Akita, 12/h 1053 w/language lessons. Some KOB slop. (Lobel, CA)
- 782 UNID, the carrier that was here seems to have disappeared. The Ruskiys must have retuned. (Peterson)
- 783 ? UNID, weak signal noted 1025-30 12/18, looping TP. Several possibilities. (Peterson, CA)
- 819 NEW ZEALAND, Roto-rooter, IYZ, assumed the source of mx looping DU 1034 12/25 w/heavy slop from KGO-810, which had mx instead of talk for once. (Portzer, WA)
- 828 t AUSTRALIA, Sale, 3GI, probably the source of bits of audio 1150 12/25. (Portzer, WA)  
+12/18 1155 possible w/strong het against WCGO. No audio. (Lobel, CA) (More likely this was 3GI, than hNA/6GN as you first surmised....bp)
- 837 t AUSTRALIA, Rockhampton, hRK, probably the one w/piano mx & EE voice (faint) looping DU 1320 12/17. (Peterson)
- 837 JAPAN, Maigata, JOJK, in w/weak NHK pips 1100 12/18. (Peterson, CA)
- 954 JAPAN, Tokyo, JOKR, weak JJ voice 1052 12/18. (Peterson)
- 1008 NEW ZEALAND, Tauranga, LZD, pop mx //1035 1052 12/25. (Portzer, WA)
- 1017 t TONGA, Nuku'alofa, A3Z, probable w/YL in unid language looping DU 0956 12/23. (Korinek, WA)
- 1035 NEW ZEALAND, Wellington, 2ZB, pop mx //1008 1035-1102 12/25, good on peaks but fadey. (Portzer, WA)
- 1053 ? AUSTRALIA, 2UH/hWP/5PI 12/18 1204 all possible w/het against 1050. No audio here. (Lobel, CA) (Pete Taylor hrd an XEPRS spur here that MM. bp)
- 1143 JAPAN, Kyoto, JOBR, good at times 0905-0910 12/18 w/upbeat songs in EE & JJ, & JJ YL anc. (Peterson, CA)
- 1188 JAPAN, Kitami, JOKP, very poor w/NHK pips 1300 12/17. Lots of QRM from KEX-1190. (Peterson, CA)
- 1242 JAPAN, Tokyo, JOLF, in w/weak voice in JJ 0925 12/18. (Peterson, CA)
- 1395 ? UNID, carrier, new here just making by KRE-1400 0948 12/18. (Peterson, CA)
- 1404 ? UNID, carrier, an even tighter squeeze by KRE 0946 12/18. (Peterson, CA)
- 1476 SABAH, Tuaran, Suara Malaysia, good signal but poor audio as usual 1211 12/18. (Peterson, CA)
- 1476 ? UNID, Malaysia?, 12/18 1355-1502 tuneout, easy listening type format, YL anc in EE. Lots of slop, fair signal by tuneout. Could not quite make it out. (Williams, OR) (You reported it as 1475 but I assumed you actually meant 1476, Dave. There's also a couple of DUs listed here in the 2-5 kw range. bp)
- 1566 t SOUTH KOREA, Cheju Island, HLDA, OM & YL in CC 12/16 brief church mx 1528, YL amnts 1529. CC pgm continued w/hymns, etc. (Williams, OR)  
+Signal blasting in at times but w/mushy audio in either JJ or KK 1120 12/18. (Peterson, CA)
- 1575 THAILAND, Ban Pacht, VOA, 12/16 1532-1545, VOA rx type pgm. Could hear another stn on freq w/pop mx - FEN? Lots of slop from 1570/1580. (Williams, OR)
- 1575 ? UNID, in w/weird chimes of alternating low & high notes 1129:30-1130:00. The timing suggests USSR, but I have never hrd chimes like these before. Also, have IDed China here a week before. (Peterson, CA)
- 1584 ? UNID, carrier new here, looping TP 1038 12/18. Guess it must be those flea powered Jap Synchros. (Peterson)

UNID CARRIERS ROUNDUP - TP Edition - via the editor: hets and/ or carriers noted 12/25 1030-1200 - 612, 639, 747, 882, 891, 1026, 1098, 1359, mostly looping DU.  
REPORT FROM OKINAWA - Mike Hardester

Mike sends the following comments re specific Far East stations: "R. Beijing is relayed on a majority of Chinese medium wave & shortwave frequencies 1200-1230 daily. At 1000, NHK2 (Japan) presents EE mx which is usually followed by EE lessons until 1100. For S. Korea, the First Pgm is now on 711 kHz; the 2nd Pgm is on 603 kHz w/EE 1130-1200; the Public Educational Pgm-1 is on 972 w/KK 1200-1230 & 1330-1400, & JJ 1100-1200 & 1230-1330; the Public Education Pgm-2 is on 756 w/CC 0900-0930, & EE 0930-1000. The Central Bcing System of China (CBS), Taiwan, has Mandarin 0900-1145 on 900 in // 3335, 6040, & 6087. 1145-1500 the Mandarin pgms can be hrd on 750/900/1100/1200 which

is // 3230/3335/6040/6087/7150/7250/9690. It should be pointed out that the Republic of China (Taiwan) did not adopt the 9 kHz freq plan & from all monitoring done remains on the 10 kHz separation plan."

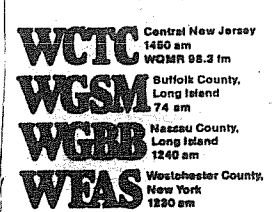
CONDITIONS

"La cx very good to excellent in period 12/13 to 12/18, w/many LA splits noted on car rx during this time, & a good amount of DXing done at both QTH's. DX time somewhat restricted due to move within Enid, but the combination of xInt LA cx & auroral suppression on several nights got me away from the boxes..." (Doug Everitt)  
"Auroral cx 12/19; ECNA wide open to Hispanics." (Townshend)  
"12/11 good lowband/low latitude TA opening. 12/13 TA cx good early evening, but things went slightly auroral later on. 12/16 auroral up through 2359. 12/17 early AM GMT. Auroral cx degrading into sporadic-E short-skip w/weak but fade-free domestics dominant on many channels. It was still auroral enough for 'run of the mill' LA DXing. Of course, in W. Yarmouth IAs often dominate on channels which, in Arlington, would yield domestics only at the same time." (Connelly)  
"There was a good low-band DU opening MM 12/18. No Asians and few Pacific Island stns have been noted since then, up to 12/24 -- Only very strong signals from KORL & KIKI, plus the usual screeching hets from Tahiti-738 & Fiji-639. But MM 12/25 saw DUs in quite well." (Portzer, WA)

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- And last but not least, the outgoing editor (outgoing as in leaving, not as in friendly, hi), who DXes w/HQ-180A, h' box loop, FRG-7, SM-2, longwires, SB-620 panadapter, KrohnHite 310AB audio filter, and other neat junk.

Well, after 4 years and about 135 columns, it's time to let someone else have a crack at it. It's been a lot of fun editing DX Worldwide during these 48 months and I am definitely going to miss all the fascinating comments that accompany DX Worldwide contributions, not to mention the phone calls from members who have money to burn, hi. I plan to stay just as active as ever in IRCA activities in the foreseeable future and have several projects/articles I plan to work on when I'm not trying to tear the house apart and/or put it back together. A big thanks goes out to everyone who has contributed during these last few seasons, especially Mark Connelly, who contributed about 4 times as many tips as anyone else, and to Nick Hall-Patch, Phil Bytheway, Dave Williams, Randy Tomer, Art Peterson, Don Kaskey, Father Jack, Randy Seaver, Gene Martin, Mike Hardester, Chris Baskind, Gerry Thomas, Richard Eckman, Mike Dunn, Gordon Nelson, Bill Bailey, Bob-Curtis, Doug Everitt, Bill Townshend, Chuck Hutton, Bill Harms, and many others too numerous to mention. Keep up the support now that Elliot is editor. 73 and Good DX in 1979. P.S - the creatures at the top of the column are Adele Penguins in case anyone is wondering....





Father Jack Pejza  
 #212 S. Carpenter Rd.  
 Modesto, CA 95351  
 209-524-6674

TRANS-PACIFIC

Australia. 2WS Sydney-1224 5 kw began transmission on 11/23, Station runs all night. Address: P.O. Box 449, Blacktown, NSW 2148, Australia. 2GZ Orange stays on 990. 2WA Willcannia was still on 1570 as of 12/9. (N2DXT 12/78)

Hawaii. KISA-1540, now a daytimer, will go fulltime 5/5 kw. (NRC via Arctic 12/2) KAHU changed to rock/top 40 early in July. Promo heard was K-94. Seemed to be simulcast with KULA-920. (NRC 12/18)

Indonesia. Palembang-1287 was heard with 50 kw by EBU in Finland at sunset. (Arctic 12/2)

New Caledonia. Noumea-670 has moved to 666, but the 1260 outlet has stayed there. It is located on 1000 meter Mount Aoupine, halfway along the mountain ridge up the center of the island. Opened in November 1977. The 666 khz transmitter is located on Sainte-Marie Island close to Noumea. (N2DXT)

New Hebrides. Vila-1420 has not moved its frequency yet. (N2DXT 12/78)

New Zealand. The frequency changes has caused co-channel interference between Radio Nova and Radio I. Radio Pacific, Auckland, will begin on 1593 on April 1 with 24 hour news/talk/community programs with 5 kw. 12M has applied for an increased to 5 kw.

Publications. The Pacific Log Lists, by frequency and call, all MW stations in Australia, NZ, South Pacific, US Trust Territories, Papua-New Guinea, Indonesia, Japan, and Philippines; with powers, times of operation, program formats, directional patterns, silent periods, etc. Send International Bank Draft or International Money Order for A\$5.00 (plus A\$2.50 packing and airmail to U.S.) to Pacific Log, GPO 1150, Sydney 2000, Australia. (N2DXT 12/78)

LATIN AMERICA

Bolivia. CP119 R. Tropic broadcasts 1130-0500 on 1000 khz with 3 kw. (Distance, via NRC 12/18)

Colombia. R. Nueva Granada-610 is to have changed its name to R. Suceso. (Distance via NRC 12/18) HJKD Armonias del Sur is ex La Voz de Gaitana according to RCN. (Arctic via NRC 12/18)

Costa Rica. TICAL-525, R. Rumbos, Cartago transmits 24 hours with increased power. (ADXXI via NADXT 12/78)

Dominican Republic.

- 760 HIPI Santo Domingo, new. Directional.
- 920 HIBA R. Triunfo, Santo Domingo, new. Uses offices and transmitter of old HIG.
- 950 HIG R. Popular, Santo Domingo, new. Moved from 920, but didn't take calls with them. (Richard Clark, NRC)

RTVD announced that its domestic service is broadcast from the following stations: 620 Santo Domingo, 1270 Santiago, 1310 El Ceiba, 1360 Monte Cristi, 1360 La Vega, 1370 Barahona, 1390 San Juan de la Maguana, 1400 Pedernales, and 1500 Puerto Plata. (Arctic, via NRC 12/18)

- 1220 HIN 10 kw, 1000-0700
- 1240 HICV Barahona, 5 kw, 0900-0300. (N2DXT 12/78)

R. Clarin-860, noted back on AN schedule 12/10. Perhaps because of the major political reversals suffered by Clarin last spring, maybe 24 hour operation is only for the holidays. (SWNS 12/78)

El Salvador. YSCB, La Voz del Pacifico is supposed to be on 1175. (Arctic via NRC 12/18)

Guatemala. The Adventist World Radio-Guatemala project was officially opened in Augwt. There will be 3 transmitters for FM, SW- and MW. FM and MW are expected to be on the air in February 1979, with SW by mid-1979. (N2DXT 12/78)

Haiti.

- 1145 4VVA R. Citadelle is now carrying Radio Nationale.
- 1455 4VEA La Voix du Nord ex 1465.
- 1475 4VAA Radio Val Aux Peuple ex La Voix de Peuple. (Richard Clark, NRC 12/18)

Mexico. Changes filed with the FCC:

- 650 XETNC Tepic, Nay. new, 10 kw directional, 150 watts night non-directional.
- 770 XE.. Cordoba, Ver. 250 watts day.
- 870 XEAMO Irapuato, Gto., new, 1 kw, daytimer.
- 910 XEHO Cd. Obregon, Son, now 1 kw/.25.
- 920 XELOM Lazaro Cardenas, Mich. 500 watt day.
- 920 XECQ Culiacan, Sin. 5 kw/.1
- 930 XEGEM Toluca, Mex. 2 kw directional at night.
- 950 XEZB Oaxaca, Oax. 1000/100 nondirectional.
- 990 XEUM Valladolid, Yuc. 1000/250 nondirectional
- 1010 XEEB Esperanza, Son. 500/250 nondirectional

- 1060 XEEP Mexico, DF 50 kw, ND day, DA night.
- 1120 XEZB Oaxaca, Oax. 500 day nondirectional
- 1120 XEGV Villa del Pueblo, Gro., 500 w day ND
- 1120 XEAAZ Zacatecas, Zac. 250 watts day ND.
- 1120 XEZL Jalapa, Ver. 10 kw, ND day, DA night
- 1180 XEYI Cancun, Q.R. 100 w, DA daytime
- 1270 XEYM Uman, Yuc. 2500/500 ND
- 1280 XELK Zacatecas, Zac. 5000/250 ND
- 1330 XEUAS Culiacan, Sin 5000 ND/1000 DA.
- 1340 XEOS Cd. Obregon, Son 250 ND
- 1360 XEIK Piedras Negras, Coah. 500/250 ND
- 1360 XEEJ Puerto Vallarta, Jal. 1000 ND daytimer
- 1360 XESA Culiacan, Sin 1000/500 ND
- 1360 XEXM Jerez, Zac. 1000/100 ND (ex 1390 N2DXT)
- 1380 XEXOX Las Cruces, Gro 1000 ND daytimer
- 1450 XEBP Torreon, Coah. 1000/250 ND
- 1520 XEUAA Aguascalientes, Ags 250 ND daytimer
- 1540 XEHOS Hermosillo, Son 5000 ND. (NRC 12/18)
- 1010 XEEO Chihuahua, Chih. 1 kw.
- 1400 XERYU Merida, Yuc. 1000/250-ex 1390
- 1400 XEQJ Tamazula, Jal. ceasing nighttime. (N2DXT 12/78)

Paraguay. R. Presidente Stroessner-885 is scheduled 1000-0430. (Arctic via NRC 12/18)

Peru. R. Sicuani-1395 (ex 1365) schedule should be 0955-0500. (Don Jensen via NRC 12/18)

TRANS-ATLANTIC

Albania. After having been reported from 951 to 967, Korça has settled on 963 where the general plan calls for them to be. Heard one night on 966 in Sweden with a very good signal. (Arctic)

Bulgaria. Stara Zagora-1161 now 500 kw with Program 1. (Arctic)

Canary Islands

- 720 ECS4 R. Atlantico ex 1097
- 882 EAK64 R. Popular de Tenerife ex 1133.
- 1008 EAJ50 R. Las Palmas ex 953.
- 1215 EAK92 R. ECCA ex 1268.
- 1341 EAJ43 R. Club Tenerife ex 1142.
- 1494 ECS16 La Voz de la Isla de la Palma ex 1385. (Arctic 12/2)

Czechoslovakia. Hveada uses 846 (ex 701) and 900 Brno for daytime frequencies. 1071 is also being used during the night via a transmitter in Praha 0000-0730 and 1400-2400. Praha is using three new frequencies: 900 (Plzen ex 953) 1332 and 1593, all as daytime channels. Bratislava continues to use 702 and 1098 exclusively. Zelena vlna also broadcasts in Saturday, despite report here that it didn't. (Arctic 12/2)

France. Radio Sorbonne was heard on 962 on 11/22 on a Wednesday morning and afternoon; so they are not just on on weekends. (Arctic 12/2)

Germany, East.

- SDD: 182 Oranienburg, 750 kw
- 783 Burg, 1000 kw
- 1359 Berlin (250 kw), to be increased to 1000 kw/500kw
- RDDR1 531 Leipzig, 100 kw
- Greifswald, 5 kw
- 558 Rostock, 20 kw
- Neubrandenburg, likely 10kw
- 576 Schwerin, 250 kw
- 603 Potsdam, 20 kw
- 729 Putbus, 5 kw
- 882 Berlin-Konigsruherhausen, 100 kw
- 1044 Burg, 250, to be increased to 1000 kw
- Dresden, 250 kw
- Suhl-Wachenbrunn, 250 kw
- BRF: 657 Neubrandenburg, prob. 2000/20
- Burg, 250kw daytime only (0345- evening)
- 693 Berlin-Uhlenhorst, 250 kw
- 999 Cottbus-Hoyerswerde, 20 kw
- Schwerin, 20 kw
- Weimar, likely 20 kw
- 1170 Plauen, 5 kw
- Reichenbach, 4 kw
- 1431 Bernburg, 20 kw
- Karl Marx-Stadt, 5 kw
- Seelow, 5 kw
- Suhl-Wachenbrunn (5-20 kw)
- 1575 Dresden, 20 kw
- Beeskow, 5 kw
- Keula, 5 kw
- Weida, 5 kw

The "old" noise-transmitters on 855 and 990 are not used anymore. Some say that they are now used as low-powered transmitters for Radio DDR, Berliner Rundfunk and Stimme der DDR on different frequencies. (Arctic 12/2)

Germany, West. Deutschlandsfunk will use 209 khz from Munich with 20 kw. Final power will be 500/250 kw. DLF Thurnau is now using 20 kw. (Arctic 12/2)

**WYZD** 1560

Great Britain. 24 hour service from Radio 2 has been postponed as was the separation of Radio 1 and Radio 2. Beacon B 10-990 is the latest IBA station to go to 24 hour broadcasting.

India. A new foreign service transmitter from Fullundur is on 710, not 702, as reported earlier. 100 kw. (NRC, via Arctic 12/2)

Ircm. Radio Kerman is on 1062 with 20 kw. (NZDXT 12/78)

Italy Rimini 2 plus one other station is reported on 999 kHz. San Remo 2 with 6 kw is on 1188. S/on on 10/19/78. (Arctic 12/2)

Liberia. Adventist World Radio will locate a station in Liberia. The new facilities will include 4 SW transmitters and a MW outlet for local areas. Work is expected to start during 1979. (NZDXT 12/78)

Mongolia. A new MW transmitter at Altay city in Western Mongolia has been started, to serve the southern part of Mongolia. No frequency or power known. (Arctic 12/2)

Nigeria. FBC Yola-1017 has changed its name to Radio Gongola. (Arctic 12/2)

Portugal.

- |       |      |  |
|-------|------|--|
| RDFI  | 594  | Chaves, M. Do Duoro, Coimbra, Portalegre ( 1 kw) |
|       | 666  | Lisboa 1 (135 kw)                                |
|       |      | Covilha, Porto, V. Real, Valenca, Viseu, 10 kw   |
|       | 720  | Azurara, 100 kw                                  |
|       |      | C. Branco, Elvas, Faro, Guarda, Mirandela, 10 kw |
| RDP 2 | 756  | Lisboa II, 135 kw                                |
|       |      | Norte II, 100 kw                                 |
| RDP3  | 558  | Faro, 10 kw                                      |
|       | 693  | Coimbra, 10 kw                                   |
|       |      | Viseu, 1 kw                                      |
|       | 783  | Miramar, 100 kw                                  |
|       | 1035 | Porto Albo, 120 kw                               |
|       | 1170 | Valenca, 10 kw                                   |
|       | 1287 | Canidelo, 10 kw                                  |
|       | 1593 | Lisboa, 10 kw (Arctic 12/2)                      |

Rhodesia. Guelo-999 has been heard using this frequency in the evenings. (EBU via Arctic 12/2)

United Arab Emirates. Abu Dhabi still uses 728 kHz. (Arctic 12/2)

That's it for now. Thanks to those who sent me Christmas cards. With the increase in postal rates and inflation of other sorts, I couldn't afford to send cards to everyone this year. I want to wish all of you the warmest holiday greetings and extend my hopes that 1979 will be a good year for all of you. FJP. 12/23.

Bad News Ahead? According to H.H. Sargent, of NASA, the current sunspot cycle promises to be a big one. The maximum should be reached in 1980, with about 150 sunspots predicted. The largest cycle, about 20 years ago, reached 202 spots. Along with the increasing number of sunspots will go solar flares of greater intensity and number. Flares do a lot to temporarily wipe out the ionosphere. Sargent is worried about the possibility of a flare knocking out the huge power grids that are interconnected across the U.S. (Science News 12/16)

**WL3Q 1570**  
radio  
logan & tyler streets  
morgantown, ky. 42261

\*\*\*\*\*  
VERIFICATION SIGNERS  
SUSAN SIRULNICK  
223 LAKEVIEW TERRACE  
TEANECK NJ 07666  
\*\*\*\*\*

- |     |      |      |  |    |
|-----|------|------|--|----|
| 580 | CHLC | p    | Maurice(?) Lender Dir. Gen.                    | BI |
| 610 | WTVN | q    | unsigned                                       | BI |
| 620 | KWFT | l    | Lonnie Pardon CE                               | DD |
| 660 | WESC | f    | Lynn S. Sumner WESC Engineering                | DD |
| 670 | KBOI | q    | Willis Frahm Asst. CE                          | MS |
| 690 | KEOS | l    | Jon R. Swett CE                                | MS |
| 710 | WUFF | l    | Gene Rogers Mgr. (VIA QSL BUREAU)              | DD |
| 720 | WGN  | q-cm | Woodrow R. Crane CE                            | BI |
| 730 | CJNR | l    | stamps Phil LeBlanc CE                         | BI |
| 730 | CKAC | l    | Robert Latreille Tech. Dir.                    | DD |
| 730 | KLOE | l-cm | Marty Melia PD                                 | MS |
| 750 | KXL  | l    | Larry Roberts PD                               | MS |
| 770 | WEW  | r-cm | Walter D. Miller Jr. CE                        | DD |
| 790 | WEAN | l    | Joseph Drury CE                                | BI |
| 800 | CHAB | l    | Mike Soar CE                                   | MS |
| 830 | KDOR | l    | Don Saunders, Connie Francis<br>q Dick Dorwatt | MS |
| 850 | WKIX | q    | Terrt L. Tuck CE                               | DD |
| 860 | CJEC | q    | unsigned                                       | BI |
| 860 | KONO | q    | -cm W.A. Kiley CE                              | DD |
| 900 | WOZK | r    | Howard Parish W4IEO GM                         | DD |
| 920 | WBOX | l    | Donald L. Smith Chief Operator                 | DD |
| 920 | WJAR | a    | Craig Healy R. Engineer                        | DD |

- |      |      |      |  |    |
|------|------|------|--|----|
| 930  | WKY  | q    | unsigned                               | DD |
| 940  | CBM  | q    | illegible                              | DD |
| 940  | KIOA | r    | Preston KØGR                           | DD |
| 940  | WFNC | l    | -stkr Dan Mitchell PD                  | BI |
| 950  | KRRC | q    | unsigned                               | DD |
| 950  | WBEB | r    | Clarence Jackson                       | DD |
| 960  | CHNS | q-cm | -stkr Judy Cairuthers                  | BI |
| 960  | WELI | q    | unsigned                               | BI |
| 960  | WELI | q    | Robert Antonio                         | SS |
| 1000 | WXTN | l    | Fanny Cothran Mgr                      | DD |
| 1020 | KDKA | q    | unsigned                               | SS |
| 1050 | KFMJ | l    | Normand R. Laramce CE                  | DD |
| 1050 | KMIS | l    | -cm Tommie J. Hill CE                  | DD |
| 1050 | WRFS | l    | unsigned                               | DD |
| 1050 | WZIP | l    | -cm Matt Allen Clark CE                | DD |
| 1070 | KFDI | l    | -cm Clifford W. Koch Corp. Eng.        | DD |
| 1080 | WVCG | l    | Earl L. Miller Dir. of Eng.            | DD |
| 1120 | KMOX | c    | O. Jilt(?)                             | BI |
| 1140 | KPWB | r    | Jerry LaDowl(?) CE                     | DD |
| 1140 | WKCM | l    | John Johnston CE                       | DD |
| 1180 | KOFI | l    | -q-cm W.H. Patterson CE                | MS |
| 1190 | KEX  | q    | Paul Matthew Eng. Mgr.                 | MS |
| 1200 | WOAI | q    | unsigned                               | BI |
| 1230 | WNVY | q    | J.W. Miles(?) CE                       | DD |
| 1240 | KAKE | l    | Frank Gunn V.P. & Manager              | DD |
| 1240 | WIST | l    | John Hook PD                           | DD |
| 1240 | WKDA | f    | -cm George Hale CE                     | DD |
| 1240 | WTAX | f    | Glenn E. Hopkins Dir. of Eng'ing       | DD |
| 1250 | KIKZ | l    | Paul J. Starr GM                       | MS |
| 1250 | KNEU | l    | Fred Brown Mgr.                        | MS |
| 1270 | WHBF | l    | James Booth CE                         | DD |
| 1300 | WAVZ | l    | Lloyd M. Prezant ACE                   | SS |
| 1300 | WLOW | r    | -cm O.W.J. (?)                         | DD |
| 1340 | KOLE | l    | Roland Richter WA5LEX CE               | DD |
| 1370 | WFEA | f    | Peter Banks Chief Operator             | DD |
| 1400 | WHUB | l    | David Brownell Staff Announcer         | DD |
| 1400 | WNUE | l    | C.G. McGuire CE                        | DD |
| 1420 | WLIS | q    | Dave Hoban CE                          | SS |
| 1420 | WVOT | f    | Gary E. Liebsch CE                     | DD |
| 1430 | WQPD | l    | George McGovern Ops. Dir.              | DD |
| 1440 | WVMG | l    | E.W. "John" Johnson Pres. (QSL BUREAU) | DD |
| 1450 | WMFJ | l    | illegible CE                           | DD |
| 1450 | WMOC | l    | Steve Smith CE                         | DD |
| 1450 | WMVG | l    | Joe S. Boone CE (QSL BUREAU)           | DD |
| 1460 | WACO | f    | Jack Vinson CE                         | DD |
| 1460 | WVOX | f    | Seymour Sinuk CE                       | SS |
| 1480 | WHBC | q    | John Schen CE                          | DD |
| 1490 | WAJF | l    | V. Paul Bowers Jr. Ops. Mgr.           | DD |
| 1490 | WKEM | l    | Steven M. Kennedy CE                   | DD |
| 1490 | WMOG | l    | Gil Moor                               | DD |
| 1490 | WRLD | l    | E.L. Pearce                            | DD |
| 1500 | WTOP | q    | Ronald J. Peters Asst. CE              | DD |
| 1510 | WLAC | f    | Everett Lawson CE                      | MS |
| 1530 | KCLR | l    | -cm F.T. Wilson President              | MS |
| 1530 | KNBI | l    | Bruce A. Stucky CE                     | MS |
| 1540 | KKAP | c    | Grant Whathall, Partner & CE           | MS |
| 1550 | KQWB | l    | Curt Peterson CE                       | MS |
| 1560 | KKAA | q    | John R. Bible                          | DD |
| 1560 | WPOD | q    | R. Sowers(?) Eng. in charge            | DD |
| 1570 | CHUB | l    | -cm Patty Keno Receptionist            | MS |
| 1580 | KNIX | l    | Cliff Reno Engineer                    | MS |
| 1590 | WFJT | l    | Michael Triplett GM                    | DD |
| 1590 | WGOE | l    | Jim Grainger CE                        | DD |

CONTRIBUTORS:

- |                 |                   |
|-----------------|-------------------|
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| Susan Sirulnick | Teaneck, NJ       |

Thanks to all contributors. Bryan Lee reports that his KMOX verie took five months! Hope to hear from you! Susan



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NEXT DEADLINE: 28 JAN 79 (First column of 1979).

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NRC Domestic Log per advertising in last months issue of the Advisor is still available. Same offer as last month -- see last months Advisor for details!

YE' EDITOR: ADDRESS AND PHONE ABOVE.

Realistic TR100. (catalog number: 14-927) stereo component music system. Has AM/FM Stereo receiver, amplifier, and 3 speed reel to reel tape player/recorder. Needs some work. Plays back fine, does not record on one channel. Good for listening to those DX tapes and music tapes. Sounds really great. PRICE: \$200 plus shipping charges. Weight: 40 pounds (uncrated). May consider delivery within 125 miles of my QTH.

YE' EDITOR: ADDRESS AND PHONE ABOVE.

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THE INTERNATIONAL RADIO CLUB OF AMERICA

A non-profit club devoted to listening to distant radio-stations on the broadcast band (510 to 1630 kHz). IRCA is a member of ANARC, the Association of North American Radio Clubs.

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**SPECIAL**

Special offer: Take both the loop and the antenna tuner advertised above and I'll pay transport. Like getting the tuner free!

ART PETERSON, 851 - 31st STREET, RICHMOND CA 94804.

**WANTS**

I still need information regarding the addresses of Mexican Stations for the new Mexican Station List I plan on typing sometime in 1979. Please send any info. you may have to be included in the list. Copies of the list will be made available to all DX Clubs for distribution per their respective policies for reprints. Please mark your contribution "For Mexican Station List 1979". Send contributions to: ALBERT S. LOBEL!

YE' EDITOR: ADDRESS ABOVE. No info. over phone, please!

10,000 WATTS  
DAYTIME

**K T R B**

1,000 WATTS  
NIGHTTIME

"Voice of Central California"

540 KCS

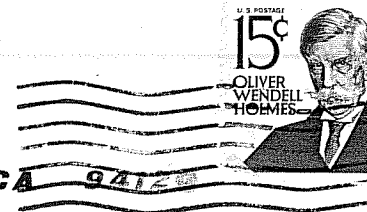
MODESTO, CALIFORNIA

Verifies Report of Reception

DATE HEARD 8-12-65 at 8:32 P.M. (P.S.T.)

*[Signature]*  
SIGNATURE FROM STATION

**IRCA** FRANCISCO  
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941 U.S.A.



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