

# DX MONITOR

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Deadline for stencils is Monday, 5 days before date of issue. CPC items may be phoned in until 10 PM PST of pub. night, either Tue. or Wed. evening.  
ALL TIMES IN DXM ARE EAST! Sample Copies of DXM are free to your friends. Write publisher. All front page and CPC items should be sent directly to publisher.

## DX CALENDAR

Mon. Apr. 13	KFIR	1370	Sweet Home, Oregon	1kw/500w	0330-0430 EST	NNRC/IRCA
Fri. May 22	KVBR	1340	Brainerd, Minn.	1kw	see text EST	IRCA/R. Brown
Sat. May 23	KVBR	1340	Brainerd, Minn.	1kw	see text EST	IRCA/R. Brown

Recent tests - There is some question whether WHMP, KXL or KGAY conducted programs as scheduled but nothing definite is known at this time. -Don Erickson

KFIR reports should go to: Mr. Richard E. Meyers, Station Manager, KFIR, P. O. Box 611, Sweet Home, Oregon 97386. This a re-sked of the earlier program. Mr. Kenton Sturdevant, former manager and engineer of KFIR, is no longer with the station and Mr. Meyers did not have sufficient time to prepare for the earlier program. Both powers will be used according to this schedule: 0330-0345 1kw; 0345-0400 500w; 0400-0415 1kw; 0415-0430 500w. -IRCA/NNRC; Kevin Slater, Salem, Oregon

KVBR will test for IRCA with full kilowatt power both Friday and Saturday morning at the following times (EST): 0130-0140, 0200-0210, 0230-0240, 0300-0310, 0330-0340, 0400-0410, and 0430-0440. Reports should be sent to: Mr. Mark W. Persons, Chief Engineer, KVBR, 1340 Ramsford Bldg., Brainerd, Minnesota 56401. This program was arranged by: -IRCA/Russ Brown, Saint Joseph, Michigan

## Solar Eclipse Results

Your pub. prepared a brief item on the results of the solar eclipse (as received by phone and mail) for the March 14 issue; however, this was accidentally left out. In general, only Angel Garcia was in a prime location for the eclipse. He reported that, despite 96% totality at 1341 EST, very little unusual was noted. He did report either WNCT or WHPE on 1070 with PSA for NC Highway Dept. WMBT-1520 250w Penn. was heard with excellent signal at 1400 EST with an unID beneath. 1550/1570 provided signals around 1400 EST also, Angel mentioned; these are usually covered at his location by WQXR-1560 NYC. No details from Dave Thomas on results of the special eclipse tests conducted on March 6 and 7. As soon as information is received, it will appear along with CPC results.

## Sweden Calling DXers

SCDX issues a weekly bulletin on SW and MW DX and air mails it fortnightly, free of charge, to radio clubs, club editors, and those whose reports are found useful. This is affiliated with, and a service of, Radio Sweden. Sample copies of SCDX are free upon request. If you'd like a copy, write: Sweden Calling DXers; International Service of the Swedish Broadcasting Corp.; S-105 10, Stockholm, SWEDEN.

March 28, 1970

EAST COAST DX ROUNDUP

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Editor: Marc DeLorenzo - 132 Beacon Street - Boston, Mass. 02116

Deadline: Thursday April 9. Please list all items in frequency order.

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- 540 ???? Low TT 0204-0208 SM 2/8 (very good). (DE)  
560 WQAM FLA, Miami amazingly o/WFIL w/ID during apparent OC test.  
0249 MM 2/23. How long do they take to verify? (DE)  
590 ???? Tester, 1000 cps 0519-0525 2/23 on & off, ID as something  
like WSP\_. Anyone have similar calls? (DE)  
WKZO MICH, Kalamazoo SSB s/on 0529 2/23, poor. (DE)  
600 WMT IOWA, Cedar Rapids fair 2/22 0200 w/MoR. (DSS)  
WICC CONN, Bridgeport fair w/wx 2/22 0145. (DSS, Virginia)  
620 WATE TENN, Knoxville hrd 0024 w/very good sig but bothered by  
WTMJ 2/2, reported. (MP)  
WTMJ WISC, Milwaukee hrd @ 0031 w/very good sig but bothered by  
WATE 2/2, reported. (MP)  
630 WPRO RI, Providence hrd 2050 fair u/CJET 2/3, vfd. (MP)  
CJET ONT, Smith Falls hrd @ 1931 w/fair signal & moderate QRM  
1/31, vfd. (MP)  
640 KFI CALIF, Los Angeles hrd @ 0059 w/fair signal but bothered by  
CNQ 3/2, reported. (MP)  
680 WPTF NC, Raleigh fair w/mx, ID @ 0005 2/22. (SSH)  
WCAW WVA, Charleston xlnt w/C&W 3/2 1815. (DSS)  
730 WACE MASS, Chicopee hrd @ 1651 w/a good signal 1/24, vfd. (MP)  
770 ???? Tester, 1000 cps, 0145-0149 about, 3/10 u/WABC. WCAL?  
KUOM? (DE)  
800 WSVS VA, Crewe w/nx fair o/CKLW @ 1755-1805 3/4. (tjy)  
810 WQIZ SC, St. George w/ads & a fair sig 3/7 1821. (DSS) Please  
note correct call, David. - MD  
940 WCPC MISS, Houston hrd @ 1744 s/off weak but consistent u/CBM,  
s/off w/Dixie 2/28, do they verify? (MP)  
KFRE CALIF, Fresno fair on DX 2/16 @ 0350; xlnt @ s/off 0400. (LMA)  
U/o KHOS on TEST 0315-0330 2/16. (JR)  
KIOA IOWA, Des Moines hrd ID @ 0155 o/KFRE 2/26. (JR)  
\*910 KCJB ND, Minot hrd ID @ 0100 2/23. (JR)  
950 WKAZ WVA, Charleston good w/mx @ 1822 3/4. (tjy)  
960 CFAC ALTA, Calgary good w/C&W mx 0210-0220 2/9. (JR) In well on  
2/9 @ 0330 w/C&W pgmning. (LMA)  
WPRT KY, Prestonburg fair on f/c on 3/7; TT until 0445 when ID  
was given. (LMA)  
970 WDAY ND, Fargo good w/ID @ 0130 2/16. (JR)  
990 WNOX TENN, Knoxville fair w/rr @ 2005 3/4. (tjy)  
1030 KCTA TEX, Corpus Christi good w/PSA for Texas Highway Dept 3/9  
1930. (DSS)  
1060 WNOE LA, New Orleans xlnt 3/10 1900 w/nx & wx. (DSS)  
1080 WUFO NY, Amherst fair 1758 3/2. (DSS)  
1090 WBAF GA, Barnesville xlnt w/s/off 1845 3/8. (DSS)  
1120 WUST DC, Washington o/u WWOL w/R&B mx 1730-1740 3/2. (JR)  
WWOL NY, Buffalo o/u WUST w/C&W mx & NBC nx 17301740 3/2. (JR)  
1140 KPLR OKLA, Oklahoma City readable on 3/7 w/WRVA burning S-meter,  
I caught this EC (?) during moments of WRVA dead air. (LMA)  
Larry, what is 'EC?' - MD  
1150 KASM MINN, Albany good w/nx @ 0800 1/29. (JR)  
WDEL DEL, Wilmington hrd @ 2231 fair w/slight QRM 1/31, vfd. (MP)  
1160 WJJD ILL, Chicago easy to hear here. What puzzled me they s/off  
@ 2030 3/3, can anyone tell me why? (MP) As far as I know,  
they are supposed to s/off at LSS in Salt Lake City which,  
in March, is @ 2030. - MD Very good w/C&W 1810 3/4. (tjy)  
1170 WWLE NY, Cornwall logged u/WWVA w/pop, rr, mx 1646-1650 2/15. (DE)  
1190 KEX ORE, Portland hrd very briefly w/talk pgm @ 0008 2/23, a min-  
ute after WOWO-1190 s/off. (SSH)

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- 1190 WIXE NC, Monroe good on DX TEST w/IDs, rr, & phone calls 0101-0226 on 2/23 w/QRM from WHAM-1180. I called station @ 0140 & found out they were being widely hrd. V/1 from HLH. (SSH) Good on DX 2/23 @ 0200. (LMA)
- 1210 KGYN OKLA, Guymon fair on 2/13 @ 1850. Listened for 15 min thinking they were WAVI Dayton. Never hrd on any of the tests. (LMA)
- WKNX MICH, Saginaw good u/WCAU w/rr 1652-1701 2/15. (DE)
- 1220 KOFO KAN, Ottawa fair on DX 2/9 @ 0245. (LMA)
- WAVN MINN, Stillwater o/u WGAR w/mx @ 1740 to 1800 s/off 1/27. (JR)
- WFAX VA, Falls Church o/WGAR w/s/off @ 1815 3/4. (JR)
- 1230 KISD SD, Sioux Falls o/mess w/R&B mx 0300-0330 3/12. (JR)
- 1240 WSKI VT, Montpelier pop mx 0028-0039 3/10 xlnt o/rr stn. (DE)
- 1250 WKBR NH, Manchester; 99% sure this was the one w/rr & "WKBR" IDs @ 2128 3/12 u/o WTAE. Is WKBR a rr stn? (SSH) Yes. - MD
- KALO ARK, Little Rock fair on f/c 3/8; IDs @ 0211 0212 0217. (LMA)
- 1270 WSPR MASS, Springfield hrd @ 1731 good w/slight QRM 1/22, vfd. (MP)
- 1290 WTOG GA, Savannah w/mx fair 2/23. (tjy) Pse include time. - MD
- WNBK NY, Binghamton o/QRM w/MoR mx 1750-1755 2/5. (JR) (LMA)\*
- 1310 WDOC KY, Prestonburg fair on 3/7 w/f/c-tt, IDs @ 0455 & 0459 s/off\*
- 1320 WCVR VT, Randolph poor w/test u/WILS & WVOJ 0100-0130 2/9. (JR)
- 1340 ???? Called "maintenance test" by ancr, 0258-0339, different tt's u/WMID. ID something like "WBBJ." Any ideas? (DE)
- WIRY NY, Plattsburgh xlnt w/rr 0042-0102 3/10. (DE)
- 1360 WKAT FLA, Miami Beach w/phone-show good @ 2115 3/9. (tjy)
- 1420 WHK OHIO, Cleveland hrd @ 0000 good w/moderate QRM 1/23, vfd. (MP)
- WBSM MASS, New Bedford xlnt w/telephone talk show & pop mx 0012-0026 2/23. Relogged while waiting for clears to s/off. (DE)
- ???? S/off 0020 SSB, extra-long fanfare at end, MM 2/23 WHK? (David Egan, Quebec)
- 1440 CKPM ONT, Ottawa on top w/ID @ 2200 2/27. (JR)
- 1450 CHUC ONT, Port Hope good sigs but quick fade on 3/3 @ 1900, rptd. One of my best Ont stns yet. (LMA)
- WGNS TENN, Murfreesboro fair w/country mx, spots, & IDs @ 0317 2/23; quite good for only 250 watts. (SSH)
- 1460 CJOY ONT, Guelph good w/C&W mx 0200-0300 3/1. (JR) Fair @ 0638 on 3/6. (LMA)
- WBUC WVA, Buckhannon fair on s/on @ 0630 during week of 3/1 - 3/7; S/on announcement, then SSB. (LMA)
- 1470 WJDY MD, Salisbury xlnt o/local CFOX & WKMF on r/c 0502-0515; IDs every minute w/1000 cps tone. Do they verify? (DE) Yup. - MD
- CFOX QUE, Pointe Claire good w/IDs, rr, nx, wx @ 0254 2/23. (SSH) Hrd @ 1944 fair w/heavy QRM 1/29, vfd. (MP)
- CHOW ONT, Welland hrd 2249 good for 500 watts 1/30, vfd. (MP)
- 1490 WTXL MASS, West Springfield not hrd on TEST 3/9, only CHYM. (KL) With DX show for NRC @ 0300 2/23, not on 3/9 as stated in DXM. Why the mix-up? Fair signals, rptd. (LMA)
- WABJ MICH, Adrian; I've been trying for years to hear this one. Finally did 3/9 @ 0230. (LMA)
- WOLF NY, Syracuse xlnt w/rr 0108-0129 3/10. (DE)
- 1510 WRAN NJ, Dover fair to weak on DX of 3/9 @ 0210. Much QRM from WLAC's OC & CJRS. (LMA) Hrd weakly u/very strong CJRS WKBW-slop. (KL)
- WAHT PA, Annville good w/MBS nx @ 1650-1700 1/30. (JR)
- WINU ILL, Highland in good on f/c 2/2; ID @ 0230, vfd. (LMA)
- 1520 WCSV TENN, Ardmore fair sig on f/c 3/7. ID @ 0415. (LMA)
- 1540 WRCP PA, Philadelphia hrd @ s/off 1749 1/19, vfd. (MP)
- 1550 WIRV KY, Irvine good sig on f/c 3/7 @ 0315. (LMA) E/T-mx @ 0117 3/7. (tjy)

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- 1560 WKDO KY, Liberty good on f/c 3/7, ID @ 0430. (LMA)  
 KBIB ARK, Monette good o/u WQXR-TT w/ET-mx 0220 2/15, vfd. (DSS)  
 WQXR NY, New York good w/TT 2/15 & 3/8 around 0200. (DSS, Va.)  
 WBKC OHIO, Chardon on top w/ID @ 0700 2/26. (JR)  
 WADD NY, Brockport hrd 3/11 very strong 1800-1815 s/off-SSB. 1st  
 time hrd & nightly since. (KL) (JR)\*
- 1570 CHLO ONT, St Thomas poor on test for IRCA u/XERF 0345-0400 3/2.\*  
 Poor on DX 2/22 0033. (DSS)
- 1580 WSRF FLA, Ft Lauderdale fair 2/22 0115. (DSS)  
 KPCA ARK, Marked Tree slipped in for a few minutes @ 1818 on 1/5.  
 My 29th logging on this freq. (LMA) Quite a few! - MD  
 WNJH NJ, Hammonton hrd 3/13 w/f/c-tt, mucho IDs as usual. (KL)
- 1600 WHLL WVA, Wheeling poor u/WGOE slop 1809 3/7. (DSS)  
 WCPK VA, Chesapeake weak u/WWRL on DX 3/9 @ 0135. (LMA) Not hrd  
 on TEST 3/9, all CJRN. (KL)

#### CONTRIBUTORS:

- (LMA) Larry M. Abraham - 8470 West Tuscola - Frankenmuth, Mich. 48734  
 (DE) David Egan - 12A Andrew - Valleyfield, Quebec, Canada  
 (SSH) Stephen Howe - 16 Windsor Road - Great Neck, New York 11021  
 (KL) Ken Lyon - 9415 Goodrich Rd - Clarence Center, New York 14032  
 (MP) Mark Perlmutter - 2 Fisher Drive - Mount Vernon, New York 10552  
 (JR) Jerry Robertson - 6065 Gardner Line - Crosswell, Michigan 48422  
 (DSS) David Singer - 5501 Old Richmond Ave - Richmond, Virginia  
 (tjy) Thomas J. Yingling - 221 Pinewood Rd - Baltimore, Maryland 21222

#### EAST COAST DX FORUM

Fred Osterman - 436 N. Forest Road - Williamsville, NY 14221

The ol' sun has been screwing up the DX here. A few catches before the disturbance - 2/23 WIXE DX nice, Nordsee International w/strongest TA signal hrd well under high noise in Gn. or Ct., w/Bob Dylan rock on 1610. Sent rpt to Zurich. Also 2/23 DXes - WCVR & WTXL. QSLs: WBSM & KELO. WRAN DX hrd fair to good, enjoyed hearing a lot of you fellow DXers who called. (Fred, what do you mean by "Gn. or Ct.?" - MD)

Stephen Howe - 16 Windsor Rd - Great Neck, New York 11021

Hi Gang! DXing has been kinda slow and disappointing with 2/23 (MM) being the only decent night. I missed WCPK-1600 DX TEST as a local stn didn't s/off until 0330 - 2 hours after the test. Also missed the CHLO-1570 TEST because my 2/21 DXM didn't come until 3/9 - that's 3rd class mail for you! I went by the 2/14 DXM which said CHLO was on 680, so I naturally listened there. My totals to date: 152/655 stns, 25/19 states, 3/3 prov, and 6/3 countries. Latest QSLs: V/q WKBA-1550 for ET, v/l WIXE-1190 for DX, CFOX-1470 CJRN-1600. In my WIXE QSL from Harry L. Helms, Jr., Harry says: "I truly enjoyed your fine report. It seems that some experienced DXers have yet to learn that it is good practice to include song titles when reporting a DX TEST, as such information is included in a station's log to ease proof of reception whenever a DX test is scheduled. Many thanks for reporting in this manner." It appears that, unlike during a regular schedule broadcast stations keep logs on songs played during DX tests. Maybe this will help some who have tried to QSL other tests. One last thing: What exactly does MoR mean? 73. (MoR stands for Middle-of-the-Road music, Stephen. MoR is the same as 'easylistening' or WNEW-type music. - MD)

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A bit of room available here so will use this space to itemize what should be contained in this issue. East Coast sections as normally. No Midwest, as per the announcement last issue. No West Coast DX Roundup information; no word from Don Kaskey and no stencils so possibly a slight delay due to strike. 1 page WC DXF. Total is 10 sheets plus May Wolrdwide SR-SS map. -Don Erickson

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Larry M. Abraham - 8470 West Tuscola - Frankenmuth, MI 48734

Hi DXers!! It's time for a yearly introduction. I'm 24, married, and a high school math teacher in Saginaw, Mich. I joined IRCA in May 1967 when I heard of the club thru Popular Electronics. I began DXing in April 1960, that was 10 years ago. If I had known of NRC then, I certainly would have joined. This is the only regret I have in this hobby. During my first three years I logged about 500 stations. Among these were 15 ctrys, including 22 Mexicans. Since then I've logged only 2 more XEs. The most regular foreign stations back then were HJBJ-640, YND-675. It took another 4 years to log the next 100 stations due to college. Since '67 I've logged another 400 stations. In '62 I received my first verie, 4VE-1035, on 2500w. My 2nd verie came 5 years later in '67. My current totals now stand at: total 942/280, states 46/44, prov 8/7, ctrys 29/12. Should reach the 1000 heard mark by summer. This would be higher if I counted call changes. DETROIT!!!

Jerry Robertson - 6065 Gardner Line - Crosswell, Michigan 48422

Totals now are: 436/193, 38/31 states, 6/5 provinces. Veries are: CJBC-860 v/q + v/1, CFAC-960 v/q, WGBF-1280 CM, v/c- WDAF-610 CJOE-1290 WTMJ-620; v/1 WINU-1510 KOF0-1220 WCVR-1320 WSGW-790 WJAG-780; v/f WRFD CKEY-590 KCMQ-810 WPAG-1580 WFDF-910. To RSR: Ville-Marie, Quebec is about 70 miles north of North Bay, Ontario. NB: Your unid W?OW-1150 is most likely WGOW in Chattanooga. LA: CFCL-620 is FF & s/on is 0600. RF: 780 in Reno is KCRL, KBOI signs off @ 0205. BB: your unid on 740 of 1/5 is CBL. LMA: I like your idea (2/21 DXM), but why not add the coverage area of the stations too? 73.

Tom Sundstrom - Box 205 - Willingboro, New Jersey 08046

Only significant eclipse-related radio phenomenon noted on March 7 was that, at 96% totality here at 1:40PM, WBZ-1030 got up to a grade-A S8 whereas its normal daytime level is an S3. Of all the stations Dave Thomas had on the air, the only one possibly heard here may have been WQIZ-810 with CW ID's just prior to 1:30PM EST - but the CW was very weak with WGY and splash from WTMR-800 in my line of fire. The others were impossible due to close-by locals on either the same or adjacent frequencies. QR-1605 was not heard at all. WRAN-1510 DX on 3/9 easy w/10kw, but the 500w xmtr was getting severe competition from CJRS. WLAC was not too bad. Russ Edmonds told me on the phone that Jerry Conrad from Florida called, as did a DXer in Indiana - both before WLAC s/off 0200! 73.

Jim Jankowski - 11 Meadowbrook Terrace - Corfu, New York 14036

The IRCA is the greatest! Unfortunately Bill Lipis doesn't believe that that is my opinion. He states (2/28 DXM): "I dare say the vast majority of IRCAers don't believe it is "unfortunate" that we have a democratic club." He was obviously referring to my comments in the 2/7 DXM. Bill: What I meant to say is that members can criticize editors, which is unfortunate, as editors spend their well-earned time for their club (they don't have to, ya know!). I didn't mean to say (although it appeared that way) that is unfortunate we have a democratic club. The main reason I am holding back from joining the NRC is its dictatorial government. In other words, I love democracy! Well, back to DX. Please use "11 Meadowbrook Terrace" when writing me as rural delivery has started here so no more "Box 45." Many veries, so no listings except WHOT (tnx Jerry Starr) and WIXE (tnx Harry Helms). 73.

Ken Lyon - 9415 Goodrich Road - Clarence Center, NY 14032

WCPK and WTXL TESTs both a flop here, WRAN hrd weakly but unneeded. Had a call from a perspective member, Bruce McFadden. Went to see him and told him about the NRC and IRCA, he had copies of both bulletins. Veries: CHLO v/1, WIXE v/1 from Harry Helms, KCHA friendly v/1 plus schedule and picture of DJs, WKMI v/q, & WPIT v/1 from John Shannon who is a member of NRCC. CU later.

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David Egan - 12A Andrew - Valleyfield, Quebec, Canada

Hi again. After sending in last time, I remembered not listing latest good DX, except eclipse stuff. After the eclipse, matter of fact, since 3/4, radio has been DEAD! Example - graveyarder 1490 - WICY Malone was all alone @ 2200 3/4. The 3/10 DX shows that graveyarders were restricted to semi-locals. The graveyarders logged 3/10 were just about alone on their frequencies. Why is DX dying so early this season? (It's not really dying, David. What you observed was the effect of an auroral disturbance on BCB. - MD) This past season has been my best. Anyone out there who cares to write, could you please send me a copy of TV Guide from your area? I'm an avid TV DXer and I use the TVG's to aid logging test patterns. Thanks. Well, I have to go for now; until next time I have something to say, 73.

Thomas J. Yingling - 221 Pinewood Rd - Baltimore, Md. 21222

Hi!! I heard WKAT-1360 phone show & called up. They were surprised to hear that Baltimore heard them & I talked on the air. Also heard WIRV-1550 ET on 3/7 & called them up. 5 minutes later the DJ said hi to Jerry, Bob, and me. Heard WIXE DX-TEST like it was WOWO. Veries: WHOT at last, WSPD, WTOG-1290 WJWL-900 WMEG WCVR-DX. If anyone DXes FM, write me please. 73 & good DX.

David Singer - 5501 Old Richmond Ave - Richmond, Va. 23226

Hi. I have just acquired a good rx, a Crosley CR-64 plus preselector! It's great! Veries in: v/1 WCAZ+CM, and WFMM (FM), which returned my postage! Walt Breville dropped in for a couple of hours on 3/8, bringing his log & veries. I wish I had them, hi. If any IRCans are in the area, you're welcome to stop by, but PLEASE CALL FIRST. Totals: 437/36 39/26 6/3 14/3. 73, good DX, and Richmond in 71!

"La Voz de la Esperanza"  
Mexican Spanish Log

--Compiled by Harry Helms, Jr. for NRC/IRCA --Researched by Jay Murley

"La Voz de la Esperanza" is the Spanish equivalent of the English "Voice of Prophecy" program. It is hosted by B. Perez Marcio and has a format similar to the "Voice of Prophecy." Times are EST. Sundays except Sa = Saturdays.

Freq.	Call	Location	Time EST	Freq.	Call	Location	Time EST
550	XEUC	Tehuantepec, Oax.	2000 Sa	1300	XEKT	Tecate, B.C.	1630 Sa
600	XEWZ	Guanajuato, Gto.	1800		XEKW	Morelia, Mich.	0800
610	XEGS	Guasave, Sin.	1930		XEXW	Nogales, Son.	1100
630	XEFU	Cosamaloapan, Ver.	2130	1320	XERJ	Mazatlan, Sin.	1000
730	XEX	Monterrey, N.L.	2030	1340	XETS	Tapachula, Chis.	2035
800	XELO	Juarez, Chih.	1830		XECI	Acapulco, Gro.	0900
850	XEM	Chihuahua, Chih.	0900	1360	XEQY	Toluca, Mex.	0900
860	XENW	Culiacan, Sin.	0900	1370	XEA	Campeche, Camp.	1200
930	XEKD	Acuna, Coah.	0930	1380	XERK	Tepic, Nay.	1015
950	XEGM	Tijuana, B.C.	1600	1400	XEPB	Hermosillo, Son.	1000
960	XEGB	Coatzacoalcos, Ver.	1030		XEJL	Guamuchil, Sin.	1430
980	XETU	Tampico, Tamps.	0930	1410	XETAB	Villahermosa, Tab.	1100
1080	XEMI	Minatitlan, Ver.	1015	1430	XELL	Veracruz, Ver.	2230
1090	XEHR	Puebla, Pue.	0800	1460	XEHX	Obregon, Son.	1200
1150	XERRF	Merida, Yuc.	0830	1490	XEDR	Guaymas, Son.	1130
1190	XEDO	Cuernavaca, Mor.	1030		XEVZ	Acayucan, Ver.	1000
1270	XEAX	Oaxaca, Oax.	2100	1590	XEHC	Ensenada, B.C.	1630 Sa

"La Voz de la Esperanza"  
Domestic Spanish Log

--Compiled by Harry Helms, Jr. for NRC/IRCA --Researched by Jay Murley

"La Voz de la Esperanza" is the Spanish equivalent of the "Voice of Prophecy" program. The format is similar; it is hosted by B. Perez Marcio. Times are EST; all on Sundays unless otherwise noted. Th = Thursday. Sa = Saturday.

<u>Location</u>	<u>Call</u>	<u>Freq.</u>	<u>Time EST</u>	<u>Location</u>	<u>Call</u>	<u>Freq.</u>	<u>Time EST</u>
<u>Arizona</u>				<u>Idaho</u>			
Phoenix	KIFN	860	1130	Caldwell	KCID	1490	2330
Tucson	KEVT	690	1100	<u>Illinois</u>			
<u>California</u>				Chicago	WEAW	1330	0830
Bakersfield	KWAC	1490	1130	<u>New Jersey</u>			
Calexico	KICO	1490	1030	Vineland	WWBZ	1360	1905 Th
Fresno	KGST	1600	1530	<u>New Mexico</u>			
Gilroy	KAZA	1290	1300	Albuquerque	KABQ	1350	1030
Oxnard	KOXR	910	1600	Santa Rosa	KSYX	1420	1330
Pasadena	KWKW	1300	1130	<u>New York</u>			
Redlands	KCAL	1410	1130	New York City	WHOM	1480	1300
San Gabriel	KALI	1430	2030	<u>Texas</u>			
Santa Maria	KSEE	1480	1230	Corpus Christi	KUNO	1400	1000
<u>Colorado</u>				Harlingen	KGBT	1530	2230
Denver	KFSC	1220	1730	Houston	KLVL	1480	1130
<u>Connecticut</u>				Laredo	KVOZ	1490	0830
Willimantic	WILI	1400	1930	San Antonio	KCOR	1350	2000
<u>Florida</u>							
Miami	WQBA	1140	0900				
Tampa	WSOL	1300	1630 Sa				

By Frequency

<u>Freq.</u>	<u>Call</u>	<u>Location</u>	<u>Time EST</u>	<u>Freq.</u>	<u>Call</u>	<u>Location</u>	<u>Time EST</u>
690	KEVT	Tucson, Ariz.	1100	1400	KUNO	Corpus Christi	1000
860	KIFN	Phoenix, Ariz.	1130	1410	KCAL	Redlands, Cal.	1130
910	KOXR	Oxnard, Calif.	1600	1420	KSYX	Santa Rosa, NM	1330
1140	WQBA	Miami, Fla.	0900	1430	KALI	San Gabriel, CA	2030
1220	KFSC	Denver, Colo.	1730	1480	KSEE	Santa Maria, CA	1230
1290	KAZA	Gilroy, Calif.	1300		WHOM	New York City	1300
1300	KWKW	Pasadena, Calif.	1130		KLVL	Houston, Tex.	1130
	WSOL	Tampa, Fla.	1630 Sa	1490	KWAC	Bakersfield, CA	1130
1330	WEAW	Chicago, Ill.	0830		KICO	Calexico, Cal.	1030
1350	KABQ	Albuquerque, NM	1030		KCID	Caldwell, Id.	2330
	KCOR	San Antonio, Tex.	2000		KVOZ	Laredo, Tex.	0830
1360	WWBZ	Vineland, N.J.	1905 Th	1530	KGBT	Harlingen, Tex.	2230
1400	WILI	Willimantic, Conn.	1930	1600	KGST	Fresno, Calif.	1530

---Submitted by Harry L. Helms, Jr., 115 W. LeRoy St., Fort Mill, S.C. 29715

Corrections and additions to this list should be submitted directly to Harry. If there is sufficient interest, it is assumed Harry might compile the list on a semi-regular basis (something like two or three times a year?). Let him know how you feel about it. Do you find it useful in your DX activity?

West Coast DX ForumFather Jack Pejza - 12096 Ventura Ave. - Ojai, Calif. 93023

Just talked to the engineer of KACY-1520, Port Hueneme ("Why-knee-mee"). Their new 50kw transmitter has been installed, and program tests will be conducted during the week of 3/22. Daytime will be directional, to protect the U.S.N. Electronics Lab in Port Hueneme. Night-time power of 1kw and directional pattern, to protect KOMA, KBBQ-1500, and KPOL-1540 are unchanged. Fish, is KECK ever going to verie for their test last spring? Nothing too important heard here lately; discovered that somehow the FET pre-amp on the loop was shorting out, so I could hear only the real strong ones. I was beginning to think there was an extremely intense auroral disturbance. Wonder how many complaints will be lodged in these pages by people objecting to the "wasted space" dedicated to "37"? I seem to remember, however, that the RFS Poll last spring indicated most people favored such a parody section occasionally. I do not favor the use of ELT; as Jay Murley indicated, it would lead to too much confusion unless each individual time mentioned had "EST" or "EDT" behind it. I do favor the use of GMT for DXWW. Even though most of our members are North Americans, we are scattered over 4 time zones, and the use of an internationally recognized time makes more sense for reception of international stations, especially since we are the "International Radio Club of America."

Jay Murley - 1733 Candlestick - Newport Beach, CA 92660

Just a fast memo to mention that WHAS, Louisville, 50kw, 1-A on 840, will be AN-6 effective March 30. My letter reads "broadcasting 24 hours daily, 6 days per week, Monday thru Saturday." Whether this means MM or SM sign-off is slightly in doubt as of 3/19....but whatever you need on or near 840, get it now! Goodbye Peking, Goodbye Bogota, Goodbye Tarawa, on any night you feel like dialing by, hi!

Don Erickson - 6059 Essex Street - Riverside, Calif. 92504

I add my vote for retaining EST. I've no desire to ever see EDT used; I do, however, think that the use of ELT (the letters) to officially designate that the time is EST in the winter and EDT in the summer would be useful for schedules (f/c's, sign-on, sign-off, etc.). For DXWW, I'm not particular but lean toward EST unless NRC makes the change also. For general purposes, GMT would make DXWW even more 'foreign' to the new member who is quite unfamiliar with time conversions. And a very large % of the IRCA membership is new to the club.

West Coast DX Forum editor: Bob Jacoby, 556 E. Alvarado St., Pomona, CA 91767Editor (Temporary until further notice): Don Erickson, 6059 Essex Street, Riverside, Calif. 92504. Please mark reports' envelopes, "WC DXF". Deadline: Thursdays.Chuck Albertson - 815 101st Place SE - Bellevue, Washington 98004

Greetings gang. Seems like I'd just finished semester exams when suddenly I discover that mid-terms are next week! 3/16 MM cx were excellent but can't stay up because of school the next day. Managed to log KLIV-1590 which is the 3rd San Jose stn I have logged this week; I'll try for KLOK next week. With a week-long break coming up, I hope to add to my humble totals which are: 94/65, 24/19 states, 3/3 prov's, and 3/3 countries. Latest veries: CHAB-800, KODL-1440, KPMC-1560, KSLM-1390, KPAY-1060. Reports out to: KXRK, KBRC, KGAY, KMED, KAST, KEEN, and KLIV. Received my New Member Packet last week; it's really great, especially the article on writing reception reports. 73 and good DX to all!

Art Peterson - 2726 Rollingwood Dr. - San Pablo, Calif. 94806

I must firmly disagree with the recent comments by Hank Ward, Marv Garber, and others concerning Glenn Hauser's fine rpts from Thailand. Glenn's comments ARE limited to 15 lines (10 lines in the 3/14 DXWW in front of me), and over 90% of that directly concerns DX. The second parts of his reports are pure DX which is what IRCA is all about. I, for one, have found the DX pertinent and useful. Can all of us claim that everything we say in DXM is as highly DX-oriented as what Glenn submits? Think about it. 73.

Upcoming West Coast DX Forum report deadlines are as follows: April 9 for 4/18 issue, April 23 for 5/2, May 7 for 5/16, June 4 for 6/13, July 9 for 7/18, and August 6 for 8/15. Reports received as late as the Tues. before pub. date are often used. -DEE



## RF Pollution

by Glenn Hauser

Pollution has surged into national prominence as one of the most vital issues of the decade--that is, pollution of the air, water, soil--the environment. But little outcry has yet been heard against another form of pollution, intangible but insidious.

Radio frequency (RF) pollution is a mushrooming problem which has already severely restricted the variety of stations a person can listen to. As it worsens, the public will have to rely more and more on local stations only, which have the power to cut through the slush caused by man made noise and interference.

I'm not talking about the growing preponderance of blah programming, or of the congestion caused by too many stations in too little spectrum--that's another problem.

RF pollution refers to the growing menace of noise and interference invading the short and medium wave bands. It's getting worse--as "civilization" progresses--because of the neglect of electronic and automotive manufacturers and service personnel.

Here is where the Association of North American Radio Clubs (ANARC) can and should serve as a national lobby representing the interests of radio listeners. Just what are the offenders? Television sets, fluorescent lighting equipment, high voltage electrical distribution equipment, and a myriad of devices from electric shavers to fish bowl heaters. Plus a good portion of the vehicles on the road.

Let's look at the offenders one by one.

Television sets. High voltages are required to produce a good picture--in the tens of kilovolts, in fact. This power goes into the horizontal oscillator circuit, which in most sets is poorly shielded. As a result, AM radios anywhere near the TV set--sometimes for blocks around--are beset with "swish" all over the dial (at harmonics of the 15.75 kHz horizontal oscillator frequency). The peaks are often so broad that hardly any clear spectrum remains between them. A listener lucky enough to be away from a house full of boob tubes may still find one of these TV sweep harmonics fouling up and confusing the reception of weak signals.

Color TV's--now selling like wildfire--are even worse because they require much higher voltage. And they operate on a slightly different sweep frequency, which happens to put every fifty harmonic within  $\frac{1}{2}$  kHz of a "trans-Atlantic" mediumwave channel, i.e., one used in European/African allocations and hence of prime interest to the mediumwave DXer. Just try DXing on 566, 629, 692, 755, 818, etc. in a color-TV infested area.

And TV set pollution is often so severe that it extends high into the shortwave bands too.

Like most aspects of pollution, there's a cure for this--requiring spending of money and effort. TV sets can be shielded so that a comparatively small amount of radiation escapes the cabinet. A foil lining inside the cabinet can work wonders, as can improved design from the beginning. TV set manufacturers should be required to meet much stricter radiation standards. But there will still be the problem of so-called "repairmen" who fail to replace tube shields properly, and jack up the voltage to compensate for a weak picture--thus not only increasing pollution but heightening the danger of shock and X radiation. Sure, the poor listener can take some steps to alleviate the effects of pollution, at his end--but the place to stop it, obviously, is at the source.

Fluorescent lights have experienced an explosion of popularity--they're cooler, whiter, and more efficient than incandescents. But they get old and gassy and make a horrendous buzz in various parts of the mediumwave and shortwave spectrum. Starting transformers also cause the buzz.

Here again the solution is simple--better design, perhaps a built-in filter to keep the buzz from feeding into power lines. Right now, it's a good bet that fluorescent tube makers--if they're aware of the problem at all--laugh off any idea of putting some of their precious profit back into cleaning up their product.

Ignition systems in internal combustion engines are another source of noise--which often hits shortwave and VHF listeners with an ear splitting razz without any warning as the engine starts up. Clean spark plugs and a grounded hood (over)

## RF Pollution

by Glenn Hauser

Page 2

eliminate the problem. The former could be made part of state safety inspections; the latter should be a required factory feature of every vehicle rolling off the assembly line.

Power companies--already in hot water for air and water pollution--must be recognized as prime RF polluters too. Every transformer in their electrical distribution network--indeed, every loose connection--is a potential noise emitter. And since power lines reach everywhere--especially into radio listening equipment--any malfunction in the systems effects a wide area.

The answer is twofold--improved equipment design--and a greatly increased maintenance program. Most power companies already have a small staff to handle interference complaints, but they are seldom effective or concerned with eliminating the root of the problem. Usually the noise level they find tolerable is intolerable to the person who wants to be able to monitor weak signals.

Any motor with brushes can produce radio noise, once wear and dirt set in. Again, better design, shielding, and maintenance is needed.

Any device with a thermostat in it is likely to produce anything from periodic loud clicks to a constant stream of obliterating radio noise. This includes electric stoves, fish tank warmers, electric blankets, central gas heating systems, and so on.

Yet again, improved design and shielding should solve the problem--if anybody cared.

The list of electrical appliances that wreak havoc upon the RF spectrum is endless--but let's take just one as a representative example.

The electric shaver. There are two kinds: one that produces noise that totally obliterates everything from longwave to VHF; and one that doesn't. I know; I've had experience with both. The solution to this is too obvious to state; but it would probably infringe on some manufacturer's vested interest to phase out the offending type--so concerted action is needed to have any hope of getting anything done.

Which brings us down to the practical aspects of fighting RF pollution.

Every radio listener can only stand to gain from the reduction of artificially produced RF noise. Hence every SWL, DXer, and casual AM listener should get busy writing literate letters explaining the severity and seriousness of the problem to congressmen known to be concerned with pollution. And to the major electronic manufacturers, and so on.

Other pollution-fighters have demonstrated that if enough people are aroused enough--at least some start can be made to alleviate the problem. It's just a question of how dedicated we radio listeners really are.

RF pollution is perhaps the most insidious pollution of all: it effects the mind of the victim, by narrowing his horizons, his sources of information--usually without his even being aware of it!

Here is our chance to make a contribution to cleansing our rapidly deteriorating environment--and with pollution an issue capturing the attention of the general public, the time to act is now.

---Glenn Hauser, FR 448 42 7204 - Box 1466, 388 CSG AFTN - APO SF 96288

(Free reprints of this article are available at cost. Please include SASE and enough postage for the quantity desired. Third class postage is 6¢ postage per 11 reprints. Requests should be addressed to: Don Erickson, RF Pollution Reprints, 6059 Essex St., Riverside, CA 92504.)

Free reprints are also available of many technical and special feature articles. In the not-too-distant future, a detailed list of both reprints and club supplies will be available. It is not available at the moment but can be reserved by sending a legal-sized SASE to: Don Erickson, Reprints-Supplies List, address above.

Mail to: Bruce Portzer, 14056 5th Avenue South, Seattle, Washington 98168

Date \_\_\_\_\_

DOMESTIC DX RECORDS REPORT FORM

Totals should be updated not less than every six months. Additional copies of this form are available for SASE (legal-size) from above address.

1) Please indicate the number of stations heard or verified from the USA and Canada: \_\_\_\_\_

2) Indicate the number of states and provinces heard or verified (DO NOT INCLUDE D.C.)

Number of U.S. states \_\_\_\_\_

Number of Canadian provinces \_\_\_\_\_

Please list the number of stations heard or verified from each state and province. Remember to list either number heard or number verified (QSLed) but not both. BEST should include call and frequency only.

	#	BEST			
Alabama	_____	_____	North Carolina	_____	_____
Alaska	_____	_____	North Dakota	_____	_____
Arizona	_____	_____	Ohio	_____	_____
Arkansas	_____	_____	Oklahoma	_____	_____
California	_____	_____	Oregon	_____	_____
Colorado	_____	_____	Pennsylvania	_____	_____
Connecticut	_____	_____	Rhode Island	_____	_____
Delaware	_____	_____	So. Carolina	_____	_____
Florida	_____	_____	So. Dakota	_____	_____
Georgia	_____	_____	Tennessee	_____	_____
Hawaii	_____	_____	Texas	_____	_____
Idaho	_____	_____	Utah	_____	_____
Illinois	_____	_____	Vermont	_____	_____
Indiana	_____	_____	Virginia	_____	_____
Iowa	_____	_____	Washington	_____	_____
Kansas	_____	_____	West Va.	_____	_____
Kentucky	_____	_____	Wisconsin	_____	_____
Louisiana	_____	_____	Wyoming	_____	_____
Maine	_____	_____	Dist. of Columbia	_____	_____
Maryland	_____	_____	Alberta	_____	_____
Massachusetts	_____	_____	British Columbia	_____	_____
Michigan	_____	_____	Manitoba	_____	_____
Minnesota	_____	_____	New Brunswick	_____	_____
Mississippi	_____	_____	Newfoundland	_____	_____
Missouri	_____	_____	N. W. T.	_____	_____
Montana	_____	_____	Nova Scotia	_____	_____
Nebraska	_____	_____	Ontario	_____	_____
Nevada	_____	_____	P. E. I.	_____	_____
New Hampshire	_____	_____	Quebec	_____	_____
New Jersey	_____	_____	Saskatchewan	_____	_____
New Mexico	_____	_____	Yukon Terr.	_____	_____
New York	_____	_____			

Name \_\_\_\_\_

State, Province, or Country \_\_\_\_\_

If you did not fill out the other side of this form, please turn it over and fill in complete mailing address at the bottom of the form.

This copy submitted for

HEARD

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Mail to: Bruce Portzer, 14056 5th Avenue South, Seattle, Washington 98168

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Foreign DX Records Report Form

Name \_\_\_\_\_

State, Province, or Country \_\_\_\_\_

Number of countries \_\_\_\_\_

Total Stations \_\_\_\_\_

Foreign Stations \_\_\_\_\_

<u>Continent</u>	<u># HEARD OR VERIFIED</u>	<u>BEST HEARD CATCH OR BEST VERIE</u>
North America		
South America		
Europe		
Asia		
Africa		
Oceania		

Instructions: Give name exactly as you wish it to appear. Please type, write neatly or print. Please include the name of your state, province, or country if not in USA or Canada.

This form can be used for either (but not both) heard or verified totals. If you need a second form for the alternate, they may be obtained from the address above or from: Don Erickson, IRCA Publisher, 6059 Essex Street, Riverside, CA 92504. Please include SASE with request and 10 forms (or whatever quantity is requested) will be sent to you.

For North America BEST, do not use Canada or USA station unless necessary. To check your count (total), add NA+SA+EUROPE+ASIA+AFRICA+OCEANIA. It should equal the quantity stated as total.

Name \_\_\_\_\_

Street address or PO Box \_\_\_\_\_

City, State or Province, Country \_\_\_\_\_

NOTE: PLEASE USE SEPARATE FORMS for heard and verified totals placing a check mark in the proper box to indicate which type of totals are on this sheet. Both sides should be for one or the other.

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INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Theory:

Method one - sweep alignment using Cathode Ray Oscilloscope to monitor IF alignment for rx's w/IF between 450-460 kHz

A signal is introduced to the frequency discriminant IF xfmrs (an inductance-capacitance filter that will only allow one frequency range through -- the less the better for selectivity). Using the RF sweep generator, the frequency "transmitted" to the rx varies from 450 to 460 kHz at 60 cycles/second(Hertz). Obviously, the amplification should be markedly greater at the IF of the rx if it is to be at all selective. A CRO across the AF Gain control (volume control potentiometer) will show something like the following:



if the CRO is synchronized against the 60 Hz line frequency. The sharp "valley" shows the IF frequency as would be seen on a very well aligned rx. High fidelity rx look often as follows:



The actual alignment procedure is an adjustment of the capacitance or inductance (depending on actual IF can manufacture) of the primary and secondary windings.



It is essential that a non-metallic instrument is used to turn the IF can adjustment screws since the extra surface area of metal added will change the capacitance of the IF xfmr and change the resonant freq. Then all adjustment is for not.

The deeper the valley, the more sensitive the rx is on the desired frequency i.e. - the stronger the desired station is in relation to QRN and QRM that is not near the specific frequency.

The sharper the sides of the valley, the more abruptly the sideband QRM is reduced.

The closer the sides of the valley, the better the sensitivity of the rx. As well, the frequency response of the rx is decrease at the high end. It should be noted that table radios often have IF<sub>2</sub> set to a wide band pass to allow relatively high fidelity sound through. The DX'er is advised to align any table rx if he plans to DX with it. The average housewife is tone deaf anyway. Add to that the fact that the audio amplifier in a table radio is pretty bad at high frequency (over 5000 Hz) and you have a strong case. Who ever heard of a DX'er using a high fidelity communications receiver???

Method two When you adjust the IF can for the loudest or highest reading, you are, in effect, deepening the valley as it would appear on the CRO.

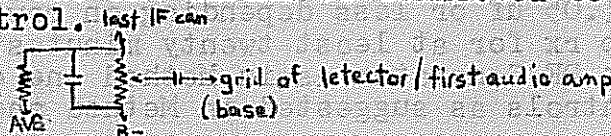
In Practise in the lab:

Method one - you need:-RF sweep generator at 455 kHz (preferably @ 60 Hz with reverse blanking)

- jumper wire for table or xstr rx only
- cathode ray oscilloscope (CRO)
- diddle stick (non-metallic tuning instrument);

unless adjustment of IF xfmrs is very stiff, a tongue depressor can be widdled to serve this purpose. The tongue depressor should be widdled to a blade like a screwdriver.

- a) Warm up the rx for at least twenty minutes (not just on stand-by).
- b) Connect the CRO's vertical displacement terminals across the AF Gain Control. The ground terminal of the CRO should be connected to the chassis side of the volume control.



- c) i) All American Five tube rx and other rx without BFO and RF sections - jumper small gang of 365 pf variable cap from one of the two terminals on the small gang (remember, they are connected together internally) to the chassis of the capacitors. Apply the RF Sweep signal to either:
- I the antenna terminal(if any) and chassis of rx
  - II the large gang of the cap
  - III pin 8 of the 12SA7 (third grid of V<sub>1</sub> - pentagrid converter)

ii) complicated tube rx - remove local oscillator tube and apply RF Sweep signal to third grid of mixer tube



or follow instructions in manual concerning RF Generator hook-up.

d) Set CRO for line sweep (60 Hz sync). If the CRO being used lacks this convenience, another possibility is to set sweep speed at 60 Hz.

e) If rx has any of the following controls or switches, set as follows:

- i) AVC(automatic volume control) or MVC(manual volume control) - AVC should be off or set to MVC.
- ii) BFO off
- iii) Q Multiplier or pre-selector off
- iv) RF Gain up full
- v) IF Gain up full
- vi) Automatic Noise Limiter (ANL) or Blanker off
- vii) Detection Mode - AM, not CW or SSB or FM
- viii) Band Selector - to BCB/AM; not FM or TV

f) Set RF Generator to 455 kHz sweep (no modulation) with the lowest RF output signal level possible.

g) With CRO set to be as sensitive as possible, either try and find the signal or slowly advance the RF output until a signal is seen on CRO.

h) If the CRO has a phase control, adjust it until the "valley" appears in the centre of the screen. If the CRO doesn't have a phase control (or it is ineffective), this step is not essential; it just makes life easier.

i) Begin with the IF can closest to the antenna on the schematic. Adjust the secondary first (as with each IF can). The secondary is located on the top of the chassis of most communication rigs. On cans with both adjustment screws on the top of the can and primary and secondary adj screws look the same, the end result is the same, but alignment may take longer and is a little more tricky (i.e. touchy). Adjust the IF screw with non-metallic diddle stick until the deepest valley is seen on the CRO. Reduce RF Output (to prevent overloading) and adjust primary to deepest possible.

j) Proceed from IF<sub>1</sub> can closest to RF section and antenna to IF<sub>2</sub>, always adjusting secondary first and primary second. Repeat from IF<sub>1</sub> through the cycle until no deeper valley can be seen.

Method two - you need:-RF Generator that is variable between 440 kHz and 470 kHz with modulated carrier or provisions for input of a tone to be modulated.

- jumper wire (for table and xstr rx)
- diddle stick
- any one of the following (in order of preference):

- I wattmeter with internal load
- II AC VTVM or AC Voltmeter(e.g. VOM) with 3 volt AC(or less) scale and 4-20 ohm load resistor (wattage rating should be more than maximum output of audio section of rx) plus normal loudspeaker.
- III a good sensitive ear, a load resistor (4-20 ohm); a small capacitor(.05 uf or less depending on power output of rx) and loudspkr.

- a) Warm up rx for at least twenty minutes (not just on standby pos.)
- b) Connect RF Generator as in Method one c).
- c) Set controls as suggested in Method one e).

- d) Apply a medium intensity modulated RF signal (400-1000 Hz tone about 50-70% modulation recommended), and with AF gain (volume) at a level at which semi-locals are normally listened to, adjust RF frequency until the loudest signal is heard on rx. This should be rx's IF freq (likely between 450 and 460 kHz). Don't put too much confidence in the RF Generator's dial freq as being correct. This freq found should be held.
- e) Disconnect speaker (only one terminal must be disconnected, but both can be) and connect either wattmeter with internal load or load res to speaker terminals. This may require some delicate surgery on table rx. Just be sure you don't become known as "the Butcher" by the next person who services the rx. The speaker terminals are usually found after a small audio xfmr that used to match the circuit and speaker impedance.
- f) AF Gain must be full open.
- g) Beginning with secondary of IF<sub>1</sub> (nearest to antenna and RF section on schematic), adjust the IF screw with diddle stick until AC Voltmeter shows largest reading or loudest sound is heard. Adjust primary of IF<sub>1</sub>, then secondary of IF<sub>2</sub> and so on, repeating cycle a few times. RF sig intensity should be decreased as alignment continues to prevent overloading. About S7 to S9 is recommended. Remember that there is a difference between modulation percentage (i.e. of tone) and signal output intensity. Modulation should be maintained at 50-70%.

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Transistor rx:

These can be a problem since generally the xstr are soldered directly in and not placed in xstr sockets. To remove a xstr, heatsinking and a great deal of time and care must be employed. So, the best bet is to apply the RF Generator to the antenna terminals (or it can be inductively couple to the ferrite bar by coiling a long wire connected between the RF Generator terminals, near the ferrite bar. There is no danger of "shorting out" the RF Generator. If possible, short out the small gang of the variable cap (tuning cap), but your best bet is found by experiment. It is possible to align any rx using the RF Generator at the antenna terminals or inductively coupled, but the difficulty arises in finding the correct Intermediate Frequency. Although the correct IF is the most intense, the whole business can be quite tricky - especially if the RF Generator's calibration is in doubt.

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If your rx doesn't give better, cleaner and crisper DX after all of this, you might consider a new rx or adding another RF stage to the present one. I will try to anser any questions or problems you may have if you wish to write:

Jon E. Pearkins, Jr. - 6137 Service Street - Burnaby 1, B. C. CANADA

My most sincere thanks go to Mr. David L.H. Powell - professeur de l'Electronics, whose instruction made this article possible.

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Propogation = -----

Though, historically, an RF Generator was used as a transmitter, an oscillator (electron tube) that produces a sine wave on an accurate frequency (as assigned by the FCC or DoT). Tuned circuits are used throughout for voltage gain and the Power Amplifier is generally run Class B or even Class C, all to get the highest efficiency from the power consumed. RF has the peculiar effect of being able to be quite distorted (as long as no stray or harmonic frequencies are present) and can be reformed into a pure sine wave by a capacitance/inductance circuit. Resonance must be carefully checked since the dielectric properties of air change constantly. Therefore, as humidity and temperature of the air around the tower changes, the transmitting frequency may "drift" and must be constantly compensated for by the variable cap.

Transmitting is a maximum directional loss of power. Current actually flows up and down the tower with a magnetic field surrounding the tower by the left hand rule. The field rapidly diminishes as the distance increases by the inverse square rule.  $p^2 = d$   
Cosmic waves ionize layers of the Earth's atmosphere (Keenly and Heavy-

March 28, 1970

Phone Network Clarifications Two notes on the proposed phone network for hot DX tips, both for actual DXing and for publication in DXM. Most important, the phone bills are paid for by me and not one cent comes from the club treasury nor is this particular activity officially sanctioned by the club. For new members who might not be aware, IRCA operates on a very strictly non-profit basis, even to the point that many editors donate their stencils and postage costs and most other officers pay all costs connected with correspondence. Committee chairmen are eligible for compensation for certain expenses but these are also often donated. The club operates on a very strict budget so that dues will stretch as far as possible. Secondly, a change in the requirement that those participating in the network have toll free phone service to at least two other DXers; this is hereby dropped since several writing have no DXers within the toll-free area. The purpose of this network will be to help provide hot tips to DXers and to gather last-minute information for DXM including which DX programs were aired and what other hot DX is being heard. For details, write to me, please. -Don Erickson, 6059 Essex St., Riverside, CA 92504.

CPC Results - KFRE-940 DX 2/16/70 From Chuck Sadoian comes details of the response to the ASWLC/IRCA DX on KFRE. Program Director Don Bell provided this list: Reception Reports by Mail: IRCAers Bill Migley, Father Jack Pejza, Robert H. Hostettler, Dan Myers, Larry Abraham, Bill Wall, Pat Martin, Jerry Starr, Dan Adams, Tim Davisson, Adolph Rattay, Terry W. Jarvis, Joseph Fela, Jr., George Bryson, Walt Breville, Larry Killick, and Mike Hardester. Non-IRCA DXers Wayne Plunkett, Weston, Ontario (NRC); David Peters, Modesto, Calif.; Raymond M. Coleman, Jr., Huntington, NY (NRC); Richard Palmer, Decatur, Ill. (NRC); Kenneth Chatterton, Mannsville, NY (NRC). Reports received by phone are numerous, mostly from non-DXers. DXers who phoned include: George Bryson, Dick Truax, Wayne Plunkett, Len Lockwood. A total of 22 reported written reception from 9 states and 2 prov. 30 phoned from 6 states and 2 prov. Total: 11 states, 2 prov, 50 reporters!

KIRV-1510 Chuck mentions that there has been no word on the KIRV test and that rpts have apparently not been verified yet. He is looking into this matter and there will be further word at a later date.

A<sub>fr</sub> Geomagnetic Indices Following a week in which the index reached 166 (!), the index fell abruptly and was as follows for the week of March 11 through the 17th: 1 4 7 1 5 2 5. However, it should be pointed out to those not familiar with the Fredricksburg A Index that low values do not necessarily indicate good DX. A prolonged period of low values is required for best conditions. Conditions can be auroral for quite a period after low index values have returned.

SPECIAL FEATURES EDITORSHIP Theo Donnelly, the recently appointed Special Features Editor, has found that he is no longer able to take over the post. If you would be interested in taking over the Special Features Editorship, please write me. In the meantime, I have appointed Harry L. Helms, Jr., 115 W. LeRoy Street, Fort Mill, South Carolina 29715 as temporary editor. If you have articles that you feel would be appropriate for the DX Monitor, please send them to Harry for stenciling.

---Michael B. Northam - P.O. Box 1122 - Lake Grove, Oregon 97034

Postal Strike About the only effect of the postal strike on IRCA has been slow delivery of the 3/21 issue. Mail service to Riverside from all points has been normal and it is hoped this issue will get to members without significant delay. However, there is a definite threat of a renewed strike this weekend (3/28) and early the following week. Please be prepared for a delayed issue next week; it might be mailed as much as a week late. Meanwhile, work on the New Member Packets for those whose names appeared in the 3/14 and 3/21 issues was suspended; until it is learned whether third class mail is proceeding without undue delays, the NMPs will be held up. Your patience is appreciated. ---Don Erickson, IRCA publisher



Editor: Father Jack Pejza, 12096 Ventura Ave., Ojai, Calif.  
 Telephones: w/tape recorder: 805-646-1464; dorm phone: 805-646-9183.  
 Deadlines: April 10, 24, May 8, June 5, July 10.

Report from Guan-- Ron Schatz, U.S.S. Hoel.

- 530 D... Philippines, There's definitely a Tagalog speaker here. Strong days just west of Luzon. Its frequency should help make it possible in NA.
- 610 KUAM Guan, Agana, "The Voice of the Western Pacific," 20 kw, commercial and sounds like any other U.S. station, which wouldn't make it easy to recognize as a "foreigner" from NA. Claims 120,000 listeners at a time during afternoon hours. Lots of religion SMS. News every hour on the hour, no foreign accents. Fair reception from 500 miles NE days.
- 1090 AFRS Mariana Islands, location sounds like "New Amsterdam" but I know that's not it. Good (best) reception just east of Rota Island. (Listed in WRTH as Anderson, Guam, Ed)
- 1300 AFN Guan. This station may have other relays in the Marianas, like 1340, 1550, or are they just mixing products? Announces 24 hour operation. (Only AFRS transmitters in the Pacific listed in WRTH are 3 in the Philippines. Nothing listed on 1340 or 1550. Ed)
- 1350 KHUR Mariana Islands, Saipan. In EE with a slight accent. Weak on Guan, better past Rota, carries AFRS recorded programs often, like Samoa's WVUV. (Listed as KJQR, Ed)

As I leave the Far East out of range, I'm trying for the islands. Reception throughout my travels has been very clear and static-free, owing to the season and my oceanic environment. My biggest impressions of the Far East dial are the exotic languages, the loud hets on almost every frequency, the loud Commie splits, and the unexaggerable dominance of Red-Chinese stations on the band. And this contrasts to an empty, quiet band in the mid-Pacific. On my next trip (next year), I'll bring along a log, such as the WRTH, and make some sense to it all.

Receiver is a Sony "Super-sensitive" portable, designed for DX, strange enough. In "sharp" position, the signal has a 20-db drop at  $\pm 4$  kHz, enough to pull in many splits with ease. It cost me \$46 in Hong Kong; U.S. price would be 3x that. I corrected the poor vernier readout with a strip of tape and a signal generator. Rx also has 4 SW bands. Next report will be stateside. Ports of call: Honolulu, also Kailua, Hawaii; Pago-Pago, Am. Samoa; Auckland, N.Z.; Gisborne, N.Z.; Tauranga and Rotorua, N.Z.; Manus Is., Admiralty Group, New Guinea; Olangapo, Philippines; Da-Nang, South Vietnam (also saw North Vietnam); Sasebo, Japan, (also Nagasaki); Hong Kong (also saw Red China); Okinawa; Guan (also saw Rota Is.), Marianas; Midway.

East Coast- Listeners' Loggings

- 900 HJEY Colombia, Cali has been noted AN recently on a MM here, so likely this is nct. DJE's UnID s/off at 2330 2/18. But the Colombians are unpredictable, e.g., HJCE-890 is sometimes AN, sometimes not. (LBG)

Mid West

- 590 XEFD Mexico, Rio Bravo very strong SM 3/8 with call ID at 0730. (LBG)
- 655 YSS El Salvador, San Salvador on with some sort of election returns (I think for diputados) noted 0155 MM 3/9 and later. Was not AN, tho. (LBG)
- HCLG2 Ecuador, Guayaquil, "R. Carrousel" is, I believe, the SS here after YSS s/off. Heard with very good signals the AM of 3/6 with many IDs that sounded more like "Radio Caritel." I believe there was one mention of the "Best music in Guayaquil" in SS. Frequency announced as 660 and the station's phone number (355-71 and 355-72) were given often. The program was called "Fiesta en el Aire" and was to last until 0500. TCs are EST and that AM there were man and woman announcers- Apparently not AN MM 3/9, though, as the frequency was clear after YSS s/off. (LBG)
- 720 CM.. Cuba is dead on this frequency now, ex-719, noted 0015 MM 3/16. (LBG)
- 750 KFQD Alaska, Anchorage may have been the weak EE with religious programming 0255-0320 MM 3/16 with HJDK looped. Very weak; much wanted. (LBG)

- 800 KINY Alaska, Juneau surprised me with a very readable signal and nice ID at 0230 MM 3/16 with CKLW looped. I haven't heard it since 9/1/58. Played songs like "Hair" prior to ID at 0230. There was a weak EE discussion program here, also, presumably CKOK. (LBG)
- 860 XEMO Mexico, Tijuana s/off 0417 MM 3/16. (LBG)
- 870 CM.. Cuba IDed as "La Voz de Cuba" at 0406 SM 3/8 with weak signals. No sign of HCNV2 so I wonder if it has moved. HCNV2 noted by DJK 2/8 however. (LBG)
- HCNV2 Ecuador, Guayaquil is still here, alright, heard with weak but definite "Radio Cristal" ID 0400 SM 3/16. No sign of Cuba that AM. (LBG)
- 880 TGJ Guatemala, Guatemala 3/2 powerful signal noted 0430-0440. (JO)
- 890 ??? UnID, 3/2 0440-0458. Hindu or East Indian type music, weak but steady signal to 0455, then man talking in UnID language to complete fade by 0458. Seems to early for Asians and WRTH70 says Fiji had Hindu but s/off 0430. Help. (JO) (My copy of WRTH indicates s/off 1030GMT which would be 0530 EST. Ed)
- 900 YVMD Venezuela, Maracaibo, "Radio Mara" very strong at s/on with NA 0441 MM 3/9. Was atop an AN-SS presumed HJEY-Cali. Absolutely no sign of CJVI this AM; seemed like auroral conditions. (LBG) (Apparently there were such conditions several days before the eclipse, and presumably extending over to the weekend. Ed)
- 970 KPUA Hawaii, Hilo 3/1, 0400-0500 news (from KGMB) and s/off with Aloha (no SSB). Excellent. Pacific Broadcasting Co. (of Honolulu). (JO)
- 1090 XEHR Mexico, Puebla believed the CST AN SS MM 3/9 at 0429 when I believe this city was mentioned. Heard AN here around 2 months ago. Weak. (LBG)
- 1115 HJ.. Colombia UNID with CARACOL program //750 at 0300 MM 3/9. (LBG) (HJGH down from 1120? Ed)
- 1120 ??? UnID looping E-W with what sounded like anthem at 0501 MM 3/9. Not SSB. (LBG)
- 1130 HJCO Colombia, Bogota "Radio Suramerica" had very fine signal MM 3/9 with ID at 0520. Believe s/cn was 0500. (LBG)
- 1165 HCUE6 Ecuador, Quevado was, I'm 80% sure, the SS noted here with programming in presumed Indian dialect MM 3/9 at 0523. At 0528 there was an ID that sounded like listed "Radio Runatacuyak" in SS. But others reported Colombia here. Tape of ID sent to Richard Wood with fingers crossed. (LBG)
- 1180 CB118 Chile, Santiago was weak but dominated the frequency at s/on 0431 MM 3/9. ID was "Radio Portales." Only deep south station heard except OAX2X. (LBG)
- 1200 YVOZ Venezuela, Caracas, "Radio Tiempo" apparently another AN regular now, noted with ID around 0200 MM 3/16 during the program "Despues de Medianoche" or "After Midnight." (LBG)
- 1210 HJFF? Colombian noted strong 2/22 0210-0218 (also taped by PRK). Gave it up for CFFB. (JO)
- 1212 HJBE Colombia, Cucuta s/on strong with NA after announcement at 0533 MM 3/9. ID was "Radio Internacional." (LBG)
- 1393 HJ.. Colombia, UnID had soft MoR instrumental music at 0450 MM 3/9, followed by s/on announcement at 0456. Colombian NA followed next. Too weak to ID. (LBG)
- 1510 2NA Australia, Newcastle heard with 5 pips followed by AEC theme music 0400 MM 3/9. WRAN DX show was on top. Heard with end of AEC news 0415 MM 3/16 (no local ID) in and out with a FF that I think was CJRS. There was a bit of flutter on 1550 at the time, maybe 4QD. I'd say 2NA is the best bet for DU from this area right now. (LBG)
- 1559 OAX2X Peru, Trujillo was a real powerhouse, IDing frequently as "Radio Primavera" 0538-0547 MM 3/9. Believed s/on 0530, and if regular, should be the best bet for this semi-rare country on a clear channel. New and reported. (LBG)

West Coast

- 640 ??? UnID SS under KFI/CMQ in evenings. Any ideas? Noted around 0100. Check by 0200, but no sign. Probably s/off somewhere from 0100-0200. Announcer does give quite a few commercials during broadcast. Ideas? (FM) (As mentioned before, quite recently, I believe, TCW is sked to s/off 0100. Ed)
- 660 2YC New Zealand, Wellington with opera at 0520 on 3/14. (FM)
- KFAR Alaska, Fairbanks with rock music, noted 3/16 at 0010. (FM)
- 680 XELG Mexico, Leon, Gto., Radio Impulsora del Centro was in very well 0443 3/16. This station is a friendly verifier and is probably the best bet for this state. (AWP)
- 750 KFQD Alaska, Anchorage noted at 0035 3/15 with MoR. (FM)
- 780 4YA New Zealand, Dunedin, with program, music, 0530 3/14. Reported. (PM)
- 820 HJED Colombia, Cali has been noted AN many MMs this season. Wish they would go off!! (LBG)
- 844 VSZ1 Gilbert and Ellice Islands, (whoops, too many llllls. Ed), Bairiki, was in with poor signal and no ID 0400 3/16. (AWP)
- 855 ??? UnID station heard 0530 3/16 with singing, flute, and guitar. Not TP since no other TPs in. I think PJC2 may be the station in question, Not in SS, however, so doubt Peru. Peru heard 1/2 hour later, stronger, and definite SS. Any ideas on this one? (AWP) (PJC2 skeduled to s/on 0530, but in Dutch according to WRTH. Ed)
- 860 1YZ New Zealand, Rotorua with sports news at 0535 3/14. (PM)
- 880 1YC New Zealand, Auckland with opera and classical music 0546 3/14. (PM) In with fair signal 0437 3/16. (AWP)
- 1210 HJFF Colombia, Pereira, "La Voz Amiga" is AN so likely JM's UnID of 2/23. Frequently heard here. (LBG)
- 1270 XEAZ Mexico, Tijuana, B.C.N., with SS programming at 0005 3/9. (PM)
- 1550 4QD Australia, Emerald (studios in Brisbane), with news and program at 0400-0416 on 3/16. (PM)/ In good (best I've ever had then) at 0415-0435 3/16. Gave ABC ID, TC and river heights at 0430. Reported. (AWP)

Verifications

- 746 ... Netherlands, Hilversum I sent standard printed QSL card for my 11/2 report, postmarked 1/30. My report was tentative, though, and am hoping Richard Wood can ID the language on my tape, in which case I will be satisfied to count the card as a verie. (LBG)
- 660 4VUE Haiti, Port-au-Prince sent long v/l in EE for my report of 2/24. The Network Manager, Edwin S. Walker, felt my report was unbelievable and would have filed it in the waste basket had I not enclosed a tape. Power is 5 kw. Verie was postmarked Miami with US 6¢ stamp. (LBG)
- 755 ... Portugal, Lisbon, "The Voice of the West" finally sent a beautiful explicit QSL card after 2 reports and a f/up. On a tip from Marv Garber, sent the f/up to Miss Maria Da Paz de Barros Santos, Int'l and Overseas Division, Radio Portugal, Emissora Nacional, Rua do Quelhas 21, Lisbon, on 3/3 and had the QSL 10 days later! QSL #12 of 15 reported this season. (LBG)
- 800 KINY Alaska, Juneau v/c (unsigned) for 0215 2/9 reception. (JO)
- 1080 HJJB Colombia, Cali, "Radio Mundial" sent friendly definite verie for my tentative report of 2/23 during KRLD silent period. Network is Todelar. V/s was Nestor Salazar R., Director. (LBG)

Reporters

- LBG Larry Godwin, Englewood, Colo.
- FM Pat Martin, Warrenton, Ore.
- JO John Oldfield, Edmonton, Alta.
- AWP Art Peterson, San Pablo, Calif.

What's New in Foreign Receivers

by Ron Schatz

During the past winter, I spent many hours in Japan and Hong Kong searching for a good communications receiver for medium-wave DX purposes, since such items go for up to one-third the U.S. price over there. Unfortunately my luck was nil, thanks to my illiteracy when it comes to Japanese phone books and the surprising lack of amateur shops in the British colony. In desperation, I resorted to Japan's famous "wonder" companies - Sony, Hitachi, Panasonic, etc.; and what I found I would match to any beefed-up Hallicrafters S-120 or Knight-Kit "Star Roamer" at least! For the table-model DX receiver is going the way of its console ancestor, and the solid-state portables are in. Here are some examples:

Panasonic, under the label of "National," is mass-producing a multi-band unit strikingly in copy of the famous (and overly expensive) Zenith "Trans-oceanic." That means LW, MW, SWx3, plus FM, ALSO BFO, "Local-DX" switch, "Broad-Sharp" switch, S-meter, and a few other extras that Zenith's version has yet to feature. The price is roughly \$175 U.S. in the Far East.

Sony has one out with cylindrical dials and the size of an HQ-180 (but still a portable) with "the works." But for the Hong-Kong price of \$400 U.S., its sensitivity and selectivity are no match for a Hammarlund.

For DXers with extreme dexterity, try the Sony "I.C." radio. At  $1\frac{1}{2}$ " x 1" x  $\frac{3}{4}$ " it's small enough to place in your mouth and play through your nose! Its speaker has a weak, tinny sound, but with the accompany earphone, you can DX all the evens for over a kilomele. It's your in Japan for 25 Yankee dollars; it comes with the key chain! I regret not buying one - for kicks.

But the receiver I chose to buy, recommend, and will delve upon, is Sony's TR-300 "Super-sensitive" model. Five (5) bands cover medium-wave and the entire SW band in four with very little overlapping. MW runs a  $4\frac{1}{3}$ " gap from 520 to 1600 kHz, but you can use the outer ring of the "tuning" knob as a "bandsread" to measure one corrugation per 500 Hz at the upper end, the corrugations being  $\frac{1}{5}$ " apart. Signal dB level can be read from a meter, at the rate of 10 dB per 3 marks. There are ten marks in all.

The "innards" of the TR-1300 include a 3" speaker, 1 FET, 8 other transistors, and 3 "aux." transistors. A 6" ferrite loop serves MW, with optional outputs for a long-wire and ground. A telescopic antenna serves the 4 SW bands. Note the FET and the ferrite loop, the latest talk in DX technology today. The AC source will accept almost any foreign voltage, or use four "D" cells for portability.

According to personal lab tests, the "sensitivity" switch in "DX" position increases receiver gain by 12 dB over the "local" position. The latter position is necessary to avoid distortion when receiving local stations, a credit to the TR-1300's quality. The "selectivity" switch in "broad" gives a 1200 Hz-wide flat peak followed by a 20 dB-per-400 Hz drop on either side of the surge. In "sharp" it's a straight 20 dB/400 Hz drop from center frequency, making it unusually sensitive to splits for a portable, even among strong signals.

The weak point of the TR-1300 is its very coarse dial markings, but a narrow strip of tape, a pen and a signal generator (or equivalent - known stations) will make an accurate replacement.

The price of this  $10\frac{2}{3}$ " x 8" x  $3\frac{2}{3}$ " portable is \$45 U.S. in Hong Kong; higher in the U.S.A.

And if you think these are good, just wait for the '71 models!

---Ronald F. Schatz, FTM3, USN - T Div, USS Hoel, DDG-13, FPO San Fran 96601

Changes of Address Please be sure to notify mbn of your change of address very promptly. One member has recently (December?) moved out of the area he lived and sent no forwarding address. Bulletins will not be forwarded by the PO. Mike should have your change by Wednesday, 10 days before the date of issue, at the latest, if you are to be certain of getting the change through. Those who receive bulletin by 3rd should be especially careful. NOTE: The PO does forward 1st class; it is third class which is not forwardable. -DEE