STATIC FROM HQ

We don’t have a lot of “Static” this week, so will keep it brief. Inside you’ll note that a Publications/Reprint list contains the notation that the NRC Night Antenna Pattern Book is out of stock. Revision of this booklet has been underway for a long time and we hope to have them ready before mid-year. Keep sending in your articles, clips, logos, etc. This is your club and we need your support. Also don’t forget the CPC effort. Best wishes to you all for a Merry Christmas and Happy New Year.

CPC TESTS


THEY JOINED

Welcome! Report to YOUR club soon!

Nick Agos, 403 Park Drive, Joliet, IL 60436
John C. Berg, Jr., 285 Aycrigg Avenue, Passaic, NJ 07055
Michael L. Hogan, 13910 Chippewa Avenue, Apt. 1, Burnham, IL 60633 (rejoins)
Terry A. Klasek, 9720 Vickie Place, St. Louis, MO 63136
Pat Mason, 64 Spring Lake, Mahomet, IL 61853
Greg Poole, S.U. Box 943, Birmingham, AL 35209
Herb Mountain, 528 Lytham Road, Blackpool, Lancs. ENGLAND FY4 1QY

Recent renewals: Clay Adamson, Bill & Nancy Hardy (3 yrs), Jeff Kosnett, Thomas White (3 yrs), Art Fregeau, Paul K. Hart, Kermit Geary (3 yrs), William Hutchinson, Bill Coleman, Jr. (3 yrs), Mark L. Mitchell, Curtis Engberg, Jerry Leon (2 yrs), Denis Orlando, David Rogers, Bob Greenlee, Frank John Petruck, Edward Kocsan, Harry Adelmann, Harold Melmanis, Bill Block, Richard Pistek, George Jensen, Guy Kudmeyer, Russell Brown, Juergen Trochimczyk, D. Todd Hyder (2 yrs), Norm Geuder.

Change of address: John Zondlo, 1802 N. Rockwell, Apt. 107, Bethany, OK 73008.

With Best Wishes
for the Holidays and
all the New Year

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One last “Static” item. A reminder that the next DX News will be dated for FRIDAY, DECEMBER 28. Unlike other issues, it will likely go into the mail on the issue date, not in advance.
Many good sunset loggings in this issue so here goes...

FREQUENCY CHECKS

WIRB AL ENTERPRISE - 11/21 1650 fair w/CBS Nx mixing w/‘Juban pest,

WIND IL CHICAGO - hit by power failure & Black Oak, IN XR & 1740, found out about 1845. (KO-IL) Den, Ken? (RA)

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Franklin, Texas
- 11/26 0245 poor w/sports Comment. (RK-IL) 1705

WHEELING - 11/23 0235 good o/CBL w/ID/SSB

WILLIAMS - 11/26 0200 fair w/male anncr talking about NHL Hockey today. (MAS-IL)

WICHITA FALLS - 11/19 0040 fair w/sports Time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/14 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/14 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/13 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/13 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/12 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/12 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/11 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/11 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/10 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/10 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/09 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/09 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/08 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/08 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/07 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/07 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/06 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/06 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/05 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/05 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/04 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/04 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/03 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/03 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/02 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/02 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/01 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/01 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/00 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/00 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/29 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/29 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/28 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/28 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/27 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/27 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/26 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/26 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/25 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/25 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/24 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/24 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/23 0130 good o/CBL w/black public affairs time w/telephone calls, female anncr into nx-SSB.

WICHITA FALLS - 11/23 0030 fair w/sports Time w/black public affairs time w/telephone calls, female anncr into nx-SSB.
I'd like to welcome all new reporters. With this kind of support, I may have to hire a staff. It's getting to be too much typing for me & Misty! NM 12/3 was the best morning to the west in some time with K5O, K5AA, W5AD, G7LQ, and maybe KDA1 all coming in here 12/3. Did anyone win the free trip to Vancouver? Happy New Year everyone! 73

THE BIG 12

JC-IL
John Clemmer, Peoria, IL
TRF, SM2

KQ-IL
Mark Connelly, Billerica, MA
R-390A, HQ-180A, TRF, Pinto

RA-MA
Ray Arruda, Hey Cush Net, MA
HQ-160, 3' LoopCar Rs, SM2, LW

MC-MA
Robert Kramer, Chicago, IL
HQ-150, 4' Loop

SM-MA
Steven Miller, Boston, MA
HQ-129X, HQ-100C, LW, Loops

SE-IA
Sienna E. Marshall, Millington, TN
TRF

WW-IA
Steven Shaffer, Hammond, IN
TRF

RA-IL
Ken Onyschuk, New Castle, CT
TRF, 60' LW

SM-IL
Konstantine Khatchlisky, Bridgeport, CT
GE Superadio

SN-WA
Ray Arruda, Hey Cush Net, MA
TRF

BL-CT
Ray Arruda, Hey Cush Net, MA
TRF

JL-CT
Bryan Lee, Brooklyn, CT
TRF, RF-2200, Loop

SM-MA
Steven Miller, Boston, MA
TRF

AWI-DK
Allan W. Luckey, New Castle, CT
TRF

AWL-DK
Jeff Lockwood, Tampa, FL
TRF

AWL-DE
Allen W. Luckey, New Castle, DE
TRF

AWL-ME
Sidney E. Marshall, Millington, TN
TRF

AWL-IN
Ken Onyschuk, New Castle, IN
GR-2200, SM2

AWL-MA
Robert Kramer, Chicago, IL
GE Superadio

AZ-IL
Paul Lee, Brooklyn, CT
TRF, RF-2200

GA-IL
John Clemmer, Peoria, IL
TRF, SM2, tubes missing

TUBES MISSING

INTERNATIONAL DX DIGEST

COSTA RICA TICAL Cartago very good w/tx and much noise which always seems to plague reception below 500 kHz; 0138 GMT 12/17 (Kaz)

ALGERIA Ain Beida poor w/AA mx in QRN from beacon on 530 at 0526 17/24. This can't be heard on HQ180A. (Kazaros) In w/power carried in AA, then AA mx at low audio level 0530 11/24 at 549 present at 0800 on CPNBE at the time. (Connelly)

VENEZUELA YV0V Villa del Rosario good o/CPNB slop w/festive LA mx then F. Prejle's ID, dominant 0530 11/25, (Connelly) Xlnt, like a real ID. Perija ID as strong as Cuba ID on 0601 0637 11/25. (Kaz)

UNIT from Venezuela, hrd "R. Barica ?? Venezuela" 0527 11/19 fair vs QA's (fading-CH). (Miller) No doubt YV0V-CH

Sorry the only LA I've heard this JSC. I don't even recall any reports of other LA's recently-prety much of a dead channel for them.

UNIT (a big mystery) noticed good 0550 11/26. This was not 7750 or 600. At 0600 I heard "cadena ??" followed by an anthem that wasn't Colombian or TV. The anthem had much trumpet mx. Any ideas? (Kazaros) Yes, R. Cadena Central in El Salvador w/their 0600 s/off. The El Salvador NA is best known for having a part that sounds much like the William Tell Overture; it is full of trumpets. Set your LA anthem to confirm this is R.C.C. which has a handful of stns on 570-CH

UNIT w/alive LA mx noted 0605-0610 not /Rebelde and about equal to WRTH strength HQ 11/26. Is the YV AN (Kazaros)? Don't know, but down here Jamaica/Mexico are more likely-CH

SPAIN Madrid o/low S4R w/man and woman in SS at fair level 0535 17/25. (Connelly)

MOROCCO Sebas-Alouf fair w/man in AA at 0505 and good w/AA vio­


PORTUGAL Norte good w/"never My Love" by the Association, then Mexican ID as strong as Cuba ID on 0601 0637 11/25. (Kaz)

COSTA RICA TICAL Cartago very good w/tx and much noise which always seems to plague reception below 500 kHz; 0138 GMT 12/17 (Kaz)

It's getting to be too much typing for me & Misty! NM 12/3 was the best morning to the west in some time with K5O, K5AA, W5AD, G7LQ, and maybe KDA1 all coming in here 12/3. Did anyone win the free trip to Vancouver? Happy New Year everyone! 73

MERRY CHRISTMAS

Best Wishes from...
PORTUGAL Lisbon fair 0615 11/21. (Kazaross) Good w/soft cl mx
2340 11/21 (Connelly).

WEST GERMANY Braunschweig/Ravensburg probable w/"I love Blue" instrumental, then more Musak, poor-fair 0545 11/24. (Connelly)

COLOMBIA NHJN Barranquilla off-channel again; LV de Barranquilla ID and 760-770 strengths 2210 11/15. Xint w/AA talk 2139 11/23. (Connelly) During this time, clear w/man in FF thru WABC splash 2205 11/5/3 good w/chanting 2130 11/16. (Kazaross)

SWITZERLAND light orchestral mx, poor 0512 11/26. (Connelly)

STRAINS Caceres-San Sebastian good w/Dean Martin rendition of "Mundial," then station's interval signal or national anthem (??CH) 0600-1000....CH 2310 11/23. Xlnt w/AA talk 2210-2230 11/23. Extremely strong (like a local) w/man in FF

COLOMBIA HNZG Cali briefly c/CMJN w/two R. Sonorama ID's 071+7 on 11/26. (Kazaross)

CUBA CMJV Ciego de Avila o/mess w/R. Liberacion ID 0330 11/26. (Kazaross) Not that I know of; why don't you ask?

ECUADOR RGDA2 w/740 (Barry Manilow) and male SS annr in 9hl QRM 0356 11/26. What's their ID slogan now? (Kazaross) Usually a simple "If yes"-CH
1266 never developed the skill of telling weak FF from weak SB, and so it appears to have a good enough signal to be noticeable.

1296 Australia. "UK Brisbane 11/19 1059" seems to record In 1966, strongest of all the stations in the ABC area. It is not, as expected.

1314 Australia. 2W Lollongong 11/17 at 1214, spot for Russia Savings Bank, and what is not much is it? (Vernon) Maturity period would be OK for a short period bond but one could do better.-CH PS- you got extra money you don't buy a dog sled and escape from the polar bears and lichen!!

1314 Ukraine. Possibly Norway as high latitudes TA ox were not bad, 757, 909, 1008 all had carriers but QRN was bad and audio not copiable. (Kazaross)

1314 UNID several stations here. Audio junky reading: 0633 11/24. (Connelly)

1315 UNID carrier in slop, loops LA 0100 11/16. (Connelly)

1323 Australia. "9H2F Sydney 11/17 1203 and of Macquarie net ox" then weather for "Sunshine Coast" (Queensland is the Sunshine State), and then spot at 1200. (Vernon)

1332 Italy. Rome fair w/soft II mx 0510 11/24. (Kazaross)

1337 France. Little fair w/magn in FF, then hetted by stronger 137S ZOUT 11/23. Loud Supertramp album out, then woman in FF 0630 11/24. (Connelly)

1395 Albania. "Lushnje good. Clear in peaks w/magn in EE 2200-2210 on 11/25. (DeLorenzo) Fair w/normal female 0518 11/24. (Kazaross) Poor w/talk 2233 11/23. (Connelly) Not w/talk signal at time-2233 11/23. IS noted 2058-2100 followed by pip in FF. (Eckman)


1413 Spain. SS-sounding talk and vocal, badly splugged 0622 11/24. (Connelly)

1453 Germany. "Saarbrucken fair with MoR male GG vocal o/aumann at 0657 11/24. (Connelly)

1493 Greenland. Thule Radio 11/24, ID's on the hour as "... 14-25, the sound of America", usually has AFV net ox also on the hour. (Brey)

1501 UNID het here, possibly Italy 0507 11/24. (Kazaross)

1508 Brazil. "Clear signal in slop w/talk and mx 0625 on 11/24. (Kazaross)

1517 Colorado. Monte Carlo pushing through slop; man in GG, then pop ox 0700-0705. (Connelly) Xlnt w/religion from the info you gave.... Pueblo is on 0700 11/26. (Vernon)

1543 UNID ORF Vienna-Bissembang 11/14. 0559K noted w/unfamiliar (not listed in WRT) IS, single gong at 0600 male annon. (Vernon) Their IS in the past has been a very clear cut thing-GH

1546 Austria. "OSP Vienna-Bissembang 11/14. 0559K noted w/unfamiliar (not listed in WRT) IS. Single gong at 0600 male annon. (Vernon) Their IS in the past has been a very clear cut thing-GH"

1547 Ukraine. SSR Lvov Program 2 11/14. 0559K noted w/unfamiliar (not listed in WRT) IS, single gong at 0600 male annon. (Vernon) Their IS in the past has been a very clear cut thing-GH

1574 Austria. "OSP Vienna-Bissembang 11/14. 0559K noted w/unfamiliar (not listed in WRT) IS. Single gong at 0600 male annon. (Vernon) Their IS in the past has been a very clear cut thing-GH"

1576 Ukraine. SSR Lvov Program 2 11/14. 0559K noted w/unfamiliar (not listed in WRT) IS, single gong at 0600 male annon. (Vernon) Their IS in the past has been a very clear cut thing-GH

1584 Italy. "Modena great w/magn in EE 11/25 and audio was good 0706 11/26. (Kazaross) Ditto here-5ax is my most reliable TA with the two are ostensibly located in the same place, usual exception of Guinea, and is unusual in this. (Vernon)

1591 Tunisia. Sfax noticed w/foreign language program at 0706 all had carriers but QRN was bad. (Kazaross) Puts out the sound of America", usually has APR net ox also on the hour. (Brey)

1605 France. Nice very good w/FF song after Tunisia 0700 11/26 (Kazaross). Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross) Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross)

1632 France. Nice very good w/FF song after Tunisia 0700 11/26 (Kazaross). Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross) Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross)

1640 France. Nice very good w/FF song after Tunisia 0700 11/26 (Kazaross). Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross) Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross)

1657 France. Nice very good w/FF song after Tunisia 0700 11/26 (Kazaross). Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross) Good w/FF song in the例外的 strong signal thru 0700 11/26. (Kazaross)
The two-wire phased Beverage is a design that combines the great directivity of the Beverage antenna with the sharp null of a loop antenna. In practise the null of a Beverage is actually superior to that of a loop because in addition to discriminating on the basis of compass direction, it is discriminated by arrival angle also. This allows the user to null one TA and hear another of almost identical bearing, or null a US station and hear a Latin on much the same angle but much further away.

This time around theory will be ignored and practical construction details featured.

Figure One is a simplified diagram of a two wire phased Beverage and the associated control box. One wire is termed "pp" and the other "g". "pp" is the floating wire and "g" is the grounded wire. Cg, Lg, and Rg are in the "g" leg of the system associated with "pp" readings, and Rf and Lf are in the "pp" leg. The same system of nomenclature will be used in all succeeding diagrams.

In this, as well as all other diagrams to follow, the two variable capacitors are standard 250 pf units, the core unit is a 250 pf, shielded in aluminum cans-the Miller A320A is an excellent choice, and all potentiometers are 1000 ohms. For Tg see Figure Two.

The procedure for creating a null is: (1) turn each pot to minimum resistance. Start with "pp" and adjust Cg for maximum meter reading. (2) adjust Cg for maximum reading. (3) adjust either Cr or Cg until a null is seen on the S-meter or the offending station is reduced in strength. This generally will involve only a slight movement of the capacitor from the position where signals peaked. (4) adjust whichever capacitor was not used in #3 until the null is deepened. (5) adjust Rg slowly and observe to see whether the null deepens. (6) if #5 yielded no improvement, slowly try the same procedure with Rf. (7) slowly rotate Rf and observe for any possible deepening of the null. (8) repeat the process, making fine adjustments as long as improvement is noted.

At the points marked "X" in Figure One (which is identical to the unit Mark Connelly uses to phase his two 37 meter longwires) Mark has inserted a DPDT switch in one position it grounds that antenna leg and in the other position it connects the nulling system to the transformer. Mark's procedure for nulling is: (1) switch in "pp" with "g" grounded. Set pot Rf at minimum resistance. Tweak Cg for peak signal; note S-meter reading. (2) switch in "g" with "pp" now grounded. Set pot Cg at minimum resistance. Tweak Cg for peak signal. Note if S-meter reading is higher or lower than peaked Cg reading. (3) if "pp" reading is higher than "g" reading, adjust Rf to equal readings. (4) if "g" reading is higher, adjust Rf for equal readings. (5) flip both switches to connect both "pp" and "g" to the balun coil. Carefully adjust the pot just used to equalize signals to reduce the strength of the undesired station. If no null is obtained, re-equalize strengths (step 3). Adjust the other pot with both "pp" and "g" connected for a null. Touching up the capacitors slightly will deepen the null. Continue adjusting Rf and Rg plus Cg and Cg to obtain the best null.
To wind the balun, obtain about three feet of enameled or insulated wire and cut it into identical sections each a foot long. Either twist the wires by hand or put one bunch of ends in a vise and the other bunch of ends in a drill and use the drill to twist. Wind the coil as pictured, being careful to mark each lead before starting. Solder 1B to 2A and also solder a short piece of wire to this junction. This is the center tap of the transformer; the short piece of wire will connect to Rd. Wires 1A and 2B are the wires to which the "F" and "G" legs will be attached. Wires 3A and 3B are the receiver connection wires. After winding and soldering are completed, fix the windings in place with coil dope, epoxy glue, or silicon rubber sealant. This balun has worked very well for me. I can not compare it with the coil used by Connelly and Bailey because they are using a "black box" balun of non-commercial origin.

Figure Three is a slightly more elaborate phasing unit. The basic idea is the same. T2 is a toroid core of 81+ turns of approximately #28 enameled wire with a center tap that is grounded. The small value capacitors and potentiometers added are for use in finding a very deep and sharp null, which sometimes proves difficult with the basic setup; the positioning is too critical. The ganged switch is an operating convenience that reduces the number of manipulations that must be made. Cc, Cf, Rg, Rf, Lg, and Lf are the same as before.

Cgt and Cff should be small trimmers of perhaps 15 pf or so. Rf and Rd should be 1B-50 ohms. Neither value needs to be exact; anything with a low value compared to the main components will suffice. "REJ A" is the standard null position. In "REJ B" the toroid T2 is in the circuit; T2 is a phase reversing transformer.

The nulling procedure is the same as with the simpler unit. One may either resonate each wire separately by putting the switch in "F" or "G" and then adjusting for the null, or simply put the switch in "REJ A" or "REJ B" and adjusting for the null without bothering to resonate the wires. With a little experience one can tell quickly where the null will be in terms of capacitor settings, and the resonating step can be eliminated.

Connection of the Beverages to the phasing box can be accomplished with coax, open-wire transmission line, or simply running the Beverage wire directly to the unit. The impedance mismatch between the antenna and RG58 does not seem to affect matters very much. When open wire line is used, each line will have to run into a balanced transformer in order to neutralize transmission line non-directional pickup. A slight bending of the antenna wires in order to bring them directly to the phasing box will probably not affect matters too much.

Some problems that may be encountered:

1. Q: I can null OK but nulls sometimes last a few minutes-sometimes only a few seconds. Why?
   A: This is probably not due to your antenna or phasing box, but rather changes in ionospheric conditions. This situation is identical to that seen when you use your loop; skywave signals will often drift a bit, requiring re-positioning of the loop.

2. Q: I still say my nulls aren't steady enough, requiring constant readjustment of the controls.
   A: If the fault is to be in the antenna system, the only possibility is that the two wires are spaced too far apart. If they are spaced too far apart, the null will not be steady enough for reliable nulling even at 100 feet for the effects to be slightly noticeable.

3. Q: I can null stations WXXX or WYYY fine but station WZZZ won't null at all. Why?
   A: Almost all stations should be nulled to a substantial degree. Unfortunately, there will be a few which prove impossible to null. Generally these stations are from 50 to 90 degrees off the front or rear of the antenna and the L-C circuit cannot provide enough phase alteration to create the necessary 180° out-of-phase condition. While the theoretical limits of the phase shunt by the L-C circuits are ±90°, this is limited in reality to a slightly lower figure by the losses in the circuit. Switching toroid T2 to the circuits should help on some stations. However, there are likely to be a few stations that will not null satisfactorily. There should only be a few of these on the entire band.

4. Q: I can't null at all. Why?
   A: Don't go looking at the wires and wondering if that slight bend is responsible. The phasing system is very forgiving of such imperfection. The problem is in either the wiring of the phasing controls or the transformer T2. Check to make sure that everything is exactly per the diagram; even with sloppy construction of the antenna and unit decent nulls should be obtained.

5. Q: My nulls are only 10 or 15 dB. Why?
   A: If this is the case for all stations on the band, check T2. If you have wound your own transformer on an iron core, obtaining the toroid core and winding it as per the diagram. A toroid is likely to be better balanced electrically and will have self-shielding properties that should minimize pickup from undesired sources.

6. Q: What design considerations are important in construction of the phasing control box?
   A: Very little is critical. The toroid should be mounted at least one inch from metallic surfaces. The windings should be coated with coil dope or epoxy glue, or a silicon rubber sealant. The input wires should be kept as short as possible and separated from the output. Ground the case of the minibox to the station ground.

7. Q: I note the differences between operation procedures for the different phasing systems. Why the difference?
   A: In the systems where each leg is resonated individually and then adjusted for a null, the end result is the same as in the one-step procedure. The resonant peak is quite easily noted on the receiver in the one step procedure, even though both antennas are resonating. The difference arises when you take into account that the position of Cg and Cf, when peaking "G" and "F" respectively are almost always not the position where the null is encountered. The position where the null is encountered should be very near the peak position; this makes location of the peak advantageous in the nulling process.
(8) Q: I just don't have the (wire/time/land) to put up another wire parallel and of equal length to the first wire, so that I can null stations using the two-wire phasing technique. Is there anything that I can do?
A: Most definitely. The stipulation that the wires be parallel and of equal length is made in order to assure optimum performance. As the basic requirement is that we have a source of current which can be phased against the first wire, this current can actually be derived from any source. Beverages of different length and direction, longwires, verticals, dipoles, rhombics, bedsprings, anything can be used and will provide the side gain in nulling in most instances. Beware, however, that you are introducing signal pickup into the system which may well partially defeat the tremendous directionality of a Beverage. This is the one and only reason why the system is described as two equal length, parallel wires!

(9) Q: I am pleased with the performance of my system and its nulls. Sometimes when I try to deepen nulls further by adjusting C or Q, I just need only to have the deep null lessened when I can't remove my hand. Why?
A: The cause is hand capacitance, which is sufficient to disturb a deep null. As the variable capacitors are insulated from the chassis (not grounded on one side as is usually the case), your body capacitance will be added to the system. The best remedy is to mount the capacitors on a panel behind the front panel of the minibox and epoxy plastic extension shafts onto each.

(10) Q: I am using posts to support my Beverage as no trees are available. Rather than be forced to install another set of posts 10 feet away for the second wire, can I mount it on the post along with the first wire?
A: Yes and no. Yes if you can keep it at least a foot away from the first wire. No if it is closer, because the capacitance to ground re-radiation from the first wire will couple into the second wire.

(11) Q: I live in a part of the country where the ground is not very conductive. In addition, I don't want to spend a small fortune on grounded posts. Do I need to invest a large amount of time and money establishing a "perfect" ground for one wire?
A: Not really. The purpose of the ground is not really to ground the wire, but to reverse the phase of the current on that wire. While a decent ground is desirable, experienced DXers say that an excellent ground is not necessary to operation of the system.

(12) Q: I read elsewhere that a ground counterpoise wire run underneath the wire will improve performance. That is an awful lot of trouble, and could prove hazardous to persons walking in the area. Is it worth it?
A: It doesn't seem to be. The purpose of the wire is to reduce ground losses, and by doing so, eliminate alterations of phase relationships created by losses in the antenna. The L-C circuits can compensate for this condition. The improvement in loss characteristics of the antenna does not seem to be worthwhile. Also, the wave velocity of the Beverage will be increased by a ground counterpoise. This is important in only two situations: when running extremely long Beverages (on the order of a mile at MW frequencies) or when operating a Beverage at the upper frequency limits of its practical operation (5-10 MHz).

(13) Q: I have never wound a toroidal core transformer and will therefore probably have some trouble. What are some tips on construction? A: No need to worry. Toroids are pretty forgiving devices, and this circuit is non-critical. It doesn't matter whether the windings are evenly spaced around the core or whether one turn doesn't sit flat against the surface of the core. The center tap does not need to be positioned with anything more than a normal degree of exactitude.

(14) Q: Sometimes I notice nulls in signal level (of very good deepness) but this does not bring out the DX underneath; rather it seems to only weaken everything on the channel. Why?
A: The cause is unknown. Usually a null that allows the DX to surface can be found by moving one variable capacitor slightly and re-adjusting the other for a new null. These "false nulls" are semi-frequent occurrences but usually can be corrected for as above.
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- $2 to all

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- $1 for 25

**SSGUIDE** - Spanish version of Broadcasters Guide;
- $1 for 25

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**TOTAL OF PUBLICATIONS**

**RECEIVING EQUIPMENT AND TECHNIQUES**

**R1** SPURIOUS SIGNALS AND SPURIOUS SIGNALS REVISED, R.J. Edmunds and G.F. Nelson. Many DXers hear stations on frequencies where they don't belong. Article describes causes and cures of spurious MW signals. Especially valuable if you have powerful locals nearby.

**R2** SINGLE SIDEBAND RECEPTION ON THE BCB WITH MECHANICAL FILTERS, G.F. Nelson. Few commercial receivers covering the MW band have adequate selectivity to cope with MW interference—particulary in the presence of powerful local stations. Explains how to fit mechanical filters to an existing receiver for the ultimate in adjacent channel rejection. This technique is used by many top MW DXers.

**R3** SUBAUDIBLE HETERODYNES ON THE MW BCB, G.F. Nelson. Details a technique which permits the MW DXer to detect and characterize signals too weak to hear at the time; also allows the DXer to count the number of stations on a channel; even if no programing is audible and permits direction finding on channels with several stations present.

**R4** MODIFYING THE TRF. A compilation of five articles for improving this fine portable receiver. Included are "Modifying the Realistic TRF to 10 kHz Readout" and "Additional Tips for 10 kHz Readout" by Charles Barfield and Gerry Thomas. "A Real External Antenna Jack for the TRF" by C. Bobbitt and "Modifying the TRF for SW-1 Use" by B. Sherwood are included as is "Tilting T-Bar Antenna Tuner for the TRF".

**R5** THE TRACKING PROBLEM AND HOW TO CURE IT, G.F. Nelson and T. Holmes. Many excellent receivers are poorly designed for MW DX operation; this article describes one of the most common design faults and how to cure it. Very useful if you have strong locals.

**R6** ELECTRONIC VERNIER TUNING, R. Moore. Detailed instructions on how to fit a varactor to a MW receiver to provide fine bandspread.


**R8** REDOING OLDER RECEIVERS, C. Hutton. The author explains how he took a $50 HQ-129X receiver and "re-juvenated" it to compare favorably with a Collins R-390 or R-390. An electronics background is helpful in implementing this article.


**R10** UP THE CARRIER, W. Bailey. Dig the weak DX out of the mud with this form of excited carrier reception.

**R11** PRECISION FREQUENCY MEASUREMENT, R. Schatz. How to use the frequency counter, an instrument now within the budget of the average serious DXer.

**R12** THE FMS-3 FREQUENCY MARKER STANDARD, R. Foxworth. A review of operation, how to make the proper connection to the receiver, and some modifications incorporated by the author to permit full use of the unit's capabilities.

**R13** SINGLE SIDEBAND RECEIVING ADAPTERS, T. Sundstrom. How to sharpen your receiver's IF bandpass using a B&W #370 receiving adapter.

**R14** REVIEW OF THE AUTEK Q-BOX, T. Sundstrom. Describes the uses of this new noise filtering device and its applications in MW DX.

**R15** REVIEW OF THE HEATH SB-620 SPECTRUM ANALYZER, R. Foxworth. A comprehensive and detailed analysis of the unit's operation and uses as related to MW DXing.

**R16** THE WORCESTER LONG DISTANCE AM RECEIVER, J. Worcester. A stage by stage description of the construction, theory and circuitry of a new type of AM DX receiver.
R18 THE HUSTRAK R-88 RECORDER, R. Schatz. Explains operation and use of
this versatile chart recording marker and its applications to the
study of propagation in MW DXing, and gaining insights into potential
loggings.

R19 A BRIEF REVIEW OF THE AUDIX QF-1 AUDIO FILTER, C. Hutton. A non-technical
review of this new noise and interference filter.

R20 A FREQUENCY COUNTER FOR RECEIVER TUNING, R. Foxworth. A very thorough
paper on digital readouts and what to look for in various models. Discusses
technical theory and provides circuitry to enable the exper-
menter to build a counter for use as a "digital dial". Very thorough.

R21 FURTHER RECEIVER HOT RODDING HINTS, C. Hutton. Tells what you can do
in order to improve the performance of even the best commercial receiv-
ers, and some problems with the older receivers being used.

R22 THE LYONODYNE CRYSTAL WIRELESS RECEIVER, R.W. Tuggle. The concepts of
vintage crystal radio are incorporated in these detailed construction
plans for a simple receiver, offered as a "sporting" alternative to
modern receivers; yet it has the potential for real DX.

R23 DIVERSITY RECEPTION, C. Hutton. Using more than one antenna and re-
cipient in an effort to reduce fading and interference of one frequency.
This idea has been used by DXers for years, and this article deals briefly yet concisely with the basics of "DR" and
how it can be applied to Medium Wave DX.

R24 TIPS ON REMOTE TAPING, R.J. Edmunds. Are you going away during that
rare DX test? This article explains a few methods you can use to
turn your receiver and recorder on while you are otherwise occupied. Useful with R9 and A26.

DOMESTIC DX

D1 1570-1580 STATION LOCATION MAPS. Two maps pinpointing the location of
domestic stations operating in this area. Available to the DXer.

D2 IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS, J. Murley and R. Schiller,
respectively. If you are unhappy with your domestic QSL returns, read
this article on the station's attitude toward reception reports. Also,
older DXers Ron Schiller gives tips on increasing your returns.

D3 CANADA'S WILDERNESS RADIO: THE LFRT, P. Taylor. In depth study of
those 20 and 40 watt Canadian stations that you hear, but don't under-
stand. A must for the domestic DXer.

are authorized to operate with powers such as 14.3 watts during certain
hours; this article explains why.

D5 LONG DISTANCE RECEPTION OF DX TESTS, F. Dailey. Are you thinking about
asking a station to do a DX test? Here are some proven techniques,
that if used by the station, could make it easier for DXers to hear
the test. A must for novice CPC members.

D9 THE NSF SITUATION, J. Starr. A look at this problem from the broad-
casters' side of the fence.

D10 DX FROM THE TWILIGHT ZONE, P. Sullivan. For various reasons some
stations are audible at sunrise and sunset only. This article tells the
reasons.

D11 GRAVEYARD DX, R. Foxworth, with addition by M. Levintow. This article
tells how to DX those cluttered local channels and get results.

D12 CANADIAN FAMILY LIFE...IT'S TWINS. Explains why many station "families"
exist in Canada. List of station groupings as of November 1, 1978,
including LFRT's and other stations of better DX potential.

D13 THE CANADIAN AUDIO NETWORKS, Brian Vernon. Explains origin of Canadian
audio networks and tips on identifying stations belonging to them.

D14 GRAVEYARD STATIONS MAPS, B. Hale. Useful maps for those who like the
crackling of "dead" frequency DX. Includes station listings for each
graveyard frequency.

D15 SOME TIPS ON IDENTIFYING UMID'S, R. J. Edmunds. Offers practical tips on
how to ID stations using reference materials and deductive logic.

D16 SUNRISE SKIP DX, R. Kramer. Practical explanation of how to add stations
to your log through understanding pre-sunrise authorities, station
allocations on clear channels and auroral effects.

STATION LISTS

L1 FREQUENCY CHECK LIST, Joe Fela. Many U.S. stations run equipment tests
at regular intervals and times. This list is a valuable aid to new
loggers. Updated yearly.

L2 THE BANANA LIST, R.F. Schatz. A breakdown of stations in the San Pedro
Sula and Tegucigalpa, Honduras areas as of January, 1978.

L3 CUBAN STATION LIST, C. Hutton. This up-to-date listing is a handy
resource for the International DXer. Updated yearly.

L4 NON-DIRECTIONAL AERONAUTICAL BEACONS, D. Davis. An explanation of the
features of this language; a must if you DX Brazil.

L5 HUNTING THE LATIN MUSIC, R. Schatz. Describes types of LA music
indigenous to various countries and tells how to ID LA's using this
information.

L11 ITU FREQUENCY ALLOCATIONS AND THEIR IMPACT ON TA DX'ING, M. Connelly,
Trying for TA's on their new frequencies? What are your chances of
logging a specific station? All region 1 MW frequencies are listed and
what should be heard under good conditions. Goes with Fl.

L12 COMMON SENSE T.A. DX STRATEGY, M. Connelly. Practical hints are given
for newer DXers to hear Trans-Atlantic stations.

MISCELLANEOUS ARTICLES

M1 LOCAL SIDE-BAND SPLASH: HOW MUCH IS TOO MUCH? G.P. Nelson. Many DXers
complain about certain local stations overmodulating and producing
large amounts of interference. Article describes FCC regulations on
sideband radiation on the MW band and types of station originated
spurious radiation.

M2 MODULATION ARCING, J. Starr. Describes a frequent but rarely discussed
cause of MW interference originating at the station that can wreak
havoc on the MW band.

M3 SUNRISE-SUNSET TABLES, G.P. Nelson. These charts permit the DXer to
determine accurate time of sunrise and sunset at any point in the world
on any particular day. Very useful for international DXers.
A little-noticed reference in paragraph 276 of the final document of the recent meeting in Cuba of nonaligned nations warns that the next battlefield on which the developing and nonaligned countries will engage their industrialized counterparts is broadcasting. It is a reference to the World Administrative Radio Conference (WARC), a little known, 10 week conference that will have a profound effect on the world's use of the airwaves for the next two decades.

The developing countries have come of age in the telecommunications world and are now a force to be reckoned with. More than that, they now realize that they have the power to exert great influence over the communications services that will—or will not—be made available to everyone in even the most powerful nations. Since technological restrictions on the number of available slots on the radio bands limited, a block of slots from several developing countries could decide, for example, whether there will be 900 more AM radio stations in the United States. There are some 90 developing countries outside of the 15% members, giving the Third World a disproportionately powerful voice.

The International Telecommunication Union has sponsored WARC conferences at approximately 20 year intervals since 1865, when 20 European states met to adopt the Morse code as a uniform telegraph code for international communications.

Until this year, WARC conferences have been little more than club meetings of the top communications technicians from the most advanced countries who quietly discussed problems and breakthroughs in communications, and how they best could serve their respective countries. Times have changed, and the number of countries participating in WARC 1979 is almost double the 87 that attended WARC 1959. In addition, virtually all of the member countries are less developed countries with sharply different needs and priorities than the developed nations.

The communications business also has changed since 1959, when the sky had yet to be littered with even its first communications satellite. Technology is developing so quickly that some forms of communications that didn't even exist in 1959 already are obsolete. And international cooperation is needed now more than ever to insure that radio signals don't interfere with each other.

The US has sent a 65-member delegation with 36 additional technical and administrative staffers to the conference, under the direction of delegation chairman Glen Robinson, a University of Virginia law professor and former FCC member signed on by the State Department for this purpose.

Armed with 2000 pages of position papers on major issues, which have been worked on by subcommittees for years, the delegation—made up of representatives from all segments and interest groups, ranging from the government to consumer groups—is prepared to bargain over even the most technically difficult issues.

Third World nations have watched for years as the industrial giants have grabbed the frequencies and bands they needed for whatever services they sought to develop. Now, as the limits of technology have crept up to the point where the telecommunications spectrum is becoming crowded, the developing nations have begun to call for a "New World Information Order."

"The US and USSR, the two most technologically developed countries, have 15 percent of the world population and use 50 percent of the world broadcast spectrum," said Thomas A. Hart Jr., treasurer of the National Black Media Coalition.

The US policy is to seek maximum usage of the airwaves, to allow those who can use the spectrum to do so and to work out a sharing program when others are ready.

That concept is viewed with skepticism, to say the least, by many Third World nations fearful that what they give up today, they never will be able to retrieve.
A large body of data on TA reception gathered by R. Wood in England. Information is analysed in an attempt to disprove the Lunar Phase Theory.

General discussion of the radio interference problem and steps necessary to control it.

An understanding of the directional patterns used by North American MW stations is vital for the active domestic DXer. This series of articles explains in authoritative detail what patterns mean and how the DXer can fatten his log by understanding them.

A discussion of the technique of analysing the characteristics of a station's frequency over the long term as an aid to the identification or elimination of stations as possible DX catches at any given time.

Supplementary information to the articles contained in the current edition of the NRG Night Pattern Book.

Discusses why there is overmodulation and how this problem will affect the DXing hobby for some time to come.

In technical terms, of the affect of noise on receiver sensitivity.

If you like to do calculations, this is the article for you. Mike explains how to figure distance and direction of stations mathematically.

Discusses Great Circle Paths, seasonal absorption pattern, auroral effects and the Midwinter Anomaly.

Explains how the position of the sun controls the fadeout time of transatlantic and transpacific stations.

Explains how the sun controls the fade-in times for MW stations.

First article describing the seasonal patterns in solar terminator location which makes summer MW reception from deep South America and Africa possible.

Short term variations in groundwave propagation at MW frequencies and their relationship to weather conditions is discussed.

Brief simple description of how the geomagnetic and auroral phenomena control TA reception from various stations. Best general introduction to MW auroral effects.

Traces a classic MW auroral attack from its origins on the sun to its effects on MW reception.

The author compares on a daily basis for three months the various A-index measurements as reported by several major observatories. He tells how the indices are related to each other.

How to tell whether the signal from a station you are listening to is arriving via groundwave or skywave or both.
FORMS A set of 3 masters for use in photo-offset printing to permit members to prepare their own NRC stationary, report forms—both Spanish and English. For members only. 50¢ per set. Availability to be announced in DX News.

STATIONARY/REPORT FORM MASTERS

GUIDE A tri-folded guide for use with reception reports explaining DXing, how the NRC was formed and the importance of QSLs to DXers. 25 for $1.

SSGUIDE Spanish version of the same guide. 25 for $1.

SUNRISE/SUNSET MAPS

BROADCASTERS GUIDE TO DX

GUIDE A set of reception reports explaining DXing, how the NRC was formed and the importance of QSLs to DXers. 25 for $1.

SSGUIDE Spanish version of the same guide. 25 for $1.

PRODUCT SUMMARY

RR1 A REVIEW OF THE PANASONIC RF-2200, Michael Sapp. A non-technical comparison of the RF-2200 with the Sony IC-7500 and Realistic TRF.

RR2 A NON-TECHNICAL REVIEW OF THE WORCESTER LONG DISTANCE RECEIVER, Jerry Starr. A user's critical commentary of this revolutionary receiver. Note: This receiver is not readily available to the average DXer as it was built in limited quantities.

RR3 MCAY-DYMEK DR-22. J. Clements. A detailed, non-technical pre-production review of one of the "new breed" of receivers; mentions features, performance and how it measures up to receivers now in use.

RR4 PANASONIC RF-4800 REVIEW, Grant Manning. Article evaluates the overall performance of this multiband receiver. Includes schematic and the technical specifications provided by Panasonic.

RR5 HQ-180 SERIES RECEIVERS, Dallas Lankford. Reviews technical details and includes personal comments on the popular Hammarlund HQ-180 receivers. An ideal supplement to the NRC Receiver Manual.

RR6 REVIEW OF THE DRAKE R7, Charles Barfield and Gerry Thomas. Thinking of buying either of these popular inexpensive receivers? This reprint compares them side-by-side and gives impressions.

RR7 GENERAL ELECTRIC'S SUPERADIO, Gerry Thomas and Charles Barfield. A detailed review of this new portable AM/FM receiver, compared side-by-side with the Radio Shack Realistic TRF.

RR8 RADIO SHACK DX-300--A SHORT REVIEW, W. Heinen. Very brief review, non-technical, from the MW DXer's viewpoint.

RR9 REVIEW OF THE DRAKE R7, Chuck Matton. A comprehensive summary of the features of this new (July, 1979) communications receiver, plus in-use evaluation of performance.

RR10 UPB A year's set of updaters to the NRC Night Pattern Book, available to members for $1; to non-members $2.*

RR11 UDL A year's set of updaters to the NRC Domestic Log is available to members for a flat fee of $1; to non-members $2.*

UPF A year's set of updaters to the NRC Might Pattern Book, available to members for $1; to non-members $2.*

*Inquiries as to availability are advised.

PAST ARTICLES FROM DX NEWS

NRC REPRINT LIST

DECEMBER, 1979 - SUPERCEDES ALL PREVIOUS LISTS AND ORDER FORMS WHICH SHOULD NOT BE USED.

ANTENNAS

A1 HIGH PRECISION DIRECTION FINDING ON THE BCB, PARTS I & II. G. P. Nelson. Part I uses Maxwell's equations to derive the equations describing MW direction finding with a loop. Part II is a non-technical discussion of how a loop antenna operates and how to get the most out of a loop.

A2 A ZERO SHARPENING DEVICE FOR A BCB LOOP. T. Holmes. If you're having trouble obtaining a sharp null with a standard loop, this simple device may help. The 1965 forerunner of the Pattern Controlled Loop.

A3 A VERSATILE LONGWIRE ANTENNA COUPLER, R. Foxworth. How to get the maximum amount of signal from your longwire.

A4 ROLL YOUR OWN (LOOP THAT IS...), D. Fischer. Loop won't tune the entire band? This article describes what's wrong and how to cure it.

A5 LOOP DISTORTION: WHY GET SKewed? G.P. Nelson. Discusses origin on distorted loop patterns. Unique technical material not available elsewhere; a must for those interested in designing MW loop antennas.

A6 PATTERN CONTROLLED LOOPS, PARTS I & II. G.P. Nelson. Introduction to the theory and practise of pattern controlled and cardiod loops for the MW DXer.

A7 THE FLORIDA BEVERAGE, J. Conrad. Jerry describes the fantastic results with a Beverage antenna and compares it with others he has used.


A9 DOWN TO EARTH GROUNDS, G.P. Nelson. Hints on making low resistance ground connections for terminating a Beverage antenna.

A10 A CALIFORNIA BEVERAGE, Fr. Jack Pejza. Another article describing the spectacular results obtained with a Beverage.


A13 USING TWO ANTENNAS TO GENERATE ASYMMETRICAL RECEIVING PATTERN. N. Levintow. Shows and describes a simple way to skew your loop's pattern to effect a null that will permit reception of a station impossible to receive on a figure 8 loop antenna by itself. Reading of reprints A5 and A6 are a requirement for understanding this technique.

A14 A NEW MEDICAL BREAKTHROUGH FOR LONGWAVE TA'S, C. Clayton. Instructions on how to build an inexpensive loop antenna for LW.

A15 REVIEW OF THE DYMEK DA-3 ANTENNA, Pete Taylor, with notes by R. J. Edmunds. Evaluates this recent development in MW antennas and its application to MW DXing.


A17 AN FE1 LOOP PREAMPLIFIER WITH COAXIAL OUTPUT, James Hagan. This article describes a highly effective balancing amplifier for the air core loop, usable with unbalanced receiver inputs, and featuring power tapped from the receiver and switchable attenuation controls to prevent overloading.
RECEIVER REVIEW: SONY ICF-D11W

Jerry H. Neves

A couple of years ago I saw an ad in the magazine called "Asian Electronics Union" for a new Sony portable radio, the ICF-D11W. The ad caught my eye, mainly because of its features such as electronics quartz clock, digital display of the received frequencies, timer, alarm functions, etc.

I wrote to Sony in Tokyo and they advised me that this model would be introduced in the United States market around June, 1979. I purchased my unit in August, 1979. The instruction booklet mentions that this unit has ceramic filters on the FM band and mechanical filters for medium wave. These are non-switchable. The digital display presents the received frequencies (MW and FM) at the touch of a button, then reverts back to its clock function after about 10 seconds. The display is displayed again by another touch of the button. The unit can also be turned on at any specific time automatically. It can buzz to awaken you. It also beeps on the hour (one beep for 1:00 o'clock, two beeps for 2:00 o'clock); has a timer that will shut the radio off after 40, 60, 90, 120, down to 10 minutes.

The display has a light at the push of a button for night viewing, a bright red LED to properly station tuning. When the station is properly tuned in, the LED is very bright. It has sliding type tone and volume controls, jacks for tape recording, earphones and external DC power. There are no connections for an outside antenna.

The ICF-D11W is very sensitive and selective on the FM and MW bands. On the MW band it can easily separate stations 10 kHz apart; even powerful locals like KFRR (690 kHz) can be separated from local pest KNBR on 680 kHz. I find it compares with my Sony ICF-5900 W as far as sensitivity and selectivity. The FM section is also very good. No images or spurs. All the different buttons are of the soft "touch" type, very smooth. The clock also displays the time that the alarm is set for; day, month, year and of course, the received frequency. All of this are in black LCD display. On FM, the frequency is shown down to 10 kHz and on MW it displays down to 1 kHz. The tunable band Knob is touchy! One slight touch you have moved 2 or 3 kHz! However, once you tune a station, the station will not drift 1 kHz.

Overall performance: Very neat little portable. Quite sensitive and selective. Its LCD frequency display, clock and timer features spoil you. I have had a couple of TP's on it this season. I like the idea of having a set that you can have turn itself on automatically at a pre-determined time and pre-determined frequency. It's small and compact, smaller than my TRF. List price is $199.95 (OUCH!!!). I got mine for $179.95, still high and over-priced I believe.

Complaints: The frequency display on the MW is off by about 2 kHz at the low end of the band. Not really noticeable when tuning a station, but I'm a nut for accuracy! On rare occasions I will get CW (code) images on the MW band, but these are easily tuned out. The push button dial light is very weak for night viewing, but you can get by. No strength meter.

My biggest complaint is the inability of Sony technicians who I contacted to even try to correct the problem of calibration being off 2 kHz on the MW band. One guy told me it met factory specifications and he gave me the usual run-around. Another technician told me the calibration is off by about 2 kHz which is not even on factory***! This is the first time I've had a problem and the Sony personnel look at you as if you are crazy!

Specifications:
- Semiconductors = 1 LSI, 1 PFT, 1 IC's, 1 PFT, 25 transistors, 17 diodes
- Antenna = FM telescopic, MW internal ferrite bar
- Speaker = 4 inch dynamic (it has a good sound)
- Power requirements = Radio - 2 1/2 cells, Clock - 2 AA cells
- Weight = 3 lbs, 4 oz.
- Dimensions = 5½ x 10½ x 2 D.
- Color = Silver metal plastic
- Carrying handle is removable.

Jerry H. Neves, 3951 Colby Way, San Bruno, Ca 94066

12/1/79

GRAVEYARD ACHIEVEMENTS

The December edition of Graveyard DX Achievements is presented for your perusement, and in some cases, amusement. This month we spotlight the old favorite, 1300 kHz. Some new listings and quite a few updates kept ye olde editor hopping. After this, the deadline for November" is going to be the second to last Thursday of the month. That makes this next deadline December 20th. Let's get on with the achievements...

STATION AND LOCATION

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<tr>
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31/10 *** PREVIOUS TO JAN. 1, 1960 *** 130

KATY, Joplin, MO 64802
There you have it, Graveyard fans...another award-winning (?) edition of CMTX. As you can see there are quite a few stations who you have logged any of them, or, have better mileages than those shown on the stations here, send them in. Best wishes to all for a joyful holiday season, no matter how you celebrate it. See you in January...

Bill

Want to learn how to winterize your car or fix a Thanksgiving feast and more by listening to WHO radio Des Moines. he said, adding that WHO is channel.' he said, adding that WHO is could take advantage of our clear could take advantage of our clear

The show, half in Vietnamese and the show, which started in July 1976, has been heard nightly in 45 states. "We response to it is hard to estimate the size of the received letter* from refugees as far

One of the show's hosts, Houn Baccam, 39, of 1224 Sampson St., takes pictures in the "grace service" - in Vietnamese. If you happen to speak Vietnamese of Tai Dam, you can learn all that and more by listening to WHO radio Saturday between 5 and 7 p.m. The half, half in Vietnamese and half in the Lao language is broadcast by the Ministry of External Affairs in Saigon the Vietnamese Bast. "They get very excited about the show," Cuoog Nguyen Phu, 22, of Ankeny is the Vietnamese host. Baccam. "As far as I know, this kind of radio is very proud of the show." The hosts translate their material

"We plan on continuing it indefinitely," said Gifford. "This show is so important and more as we gathered news efficiently." The show also deals with many things Americans take for granted — topics like Halloween, Thanksgiving, how to winterize your car or fix a Thanksgiving feast. Dobbins of Ankeny is the Vietnamese Bast. "As far as I know, this kind of radio program, which is a combination of news and music, is one of the few in its kind in the whole country," said Gifford. "At first as I know, this kind of radio program, which is a combination of news and music, is one of the few in its kind in the whole country," said Gifford.

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The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

**INTRODUCING "MARY":**

MARY is our "guest typewriter," on loan from St. Mary of the Harbor (Episcopal) Church at the end of Anthony Street, in Provincetown. She is a long-carriage completely and recently reconditioned Royal, on which we are now typing the masters for the weekly church bulletin.

**FIRST ANNIVERSARY OF MEMBERSHIP MUSE**

STEVE MILLER - Boston, Massachusetts

Vol. 5 No. 4

December 1975

"I think this DXI Well, here it as I promised! This month will contain my contributions to the NRC's famous bulletin, DX NEWS. If this is Vol. 6 #4 this Muse is right on time, but I'd still like to tell you folks in on the secrets of my first year of membership in the NRC anyway. Here it goes. Out of 31 issues received I've contributed to 27 of them, and a mere 27 issues received, this is pretty good. Hi! Combined contributions (of Log Reports & Musing) tally a nice #7s, 25 log reports to DXED, 0 Musing to EEC's column. Out of total 283 stations heard 221 were reported to DXED, a mere 72 were not reported (shucks! Hi!). For the DXers, I have a nice total of 28 stations heard this month. Out of total 283 stations heard 221 were reported to DXED, a mere 72 were not reported (shucks! Hi!).

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RAY ARRUDA - 02743

In the process of QSLing the remaining ones I haven't verified yet, a la WPTR, KXEL, WPFW, WBTX, WWTC, WPED, etc. I've contributed to the NEC's famous bulletin, DX NEWS. If this is Vol. 6 #4, this Muse is right on time, but I'd still like to tell you folks in on the secrets of my first year of membership in the NRC anyway. Here it goes. Out of 31 issues received I've contributed to 27 of them, and a mere 27 issues received, this is pretty good. Hi!

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**TWO new DXI's from the same county are moving the DXI files.**

WEQ-970 Spring City, Tenn. was first noticed 11/9 in WFTI null at 9/W5/F. We'll see them again, but we've heard that when W5/F - the lines which were announced as temporary and used only at the top of the hour. Another DXI is WEA-1504 Dayton, Tenn. (home of the Clarence Darrow - William Jennings Bryan "monkey trial of the 1920's"), they'll be there and have a fair signal, as they're in the same county as WEA-1504.

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It's been a while since I heard a clear FM station reporting here, as I used to get some reports but probably haven't received any for almost 2 years. However, I heard a couple of reports recently. WQDI (89.9 FM, West End, GA) reported strong signals from WQDI and WMCA (1130 AM, East Point, GA). The report was made on the 12th of November. I also heard a few reports of WQDI from other listeners in the area. WQDI is located on the Georgia State University campus and is operated by the university's student radio station. The station broadcasts a variety of programming, including music, news, and sports.

I heard WQDI on a couple of occasions, but the reports were not very clear. However, another listener reported hearing WQDI on the 15th of November. This report was made by a listener in the Atlanta area, who stated that the signal was strong and clear. I also heard a report from WQDI on the 20th of November. This report was made by a listener in the Atlanta area, who stated that the signal was strong and clear. I also heard a report from WQDI on the 25th of November. This report was made by a listener in the Atlanta area, who stated that the signal was strong and clear. I also heard a report from WQDI on the 30th of November. This report was made by a listener in the Atlanta area, who stated that the signal was strong and clear.

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beech domestic this Fall was SSS KRLW, Walnut Ridge, Ark. at 11/5, 1320, a/off on Nov. 6:01pm. The new location is saioh quieter than the city apartment, but am closer to infamous WPTR I was away for a couple of days when a department store owned by Strewbridge A Clothier. Along with Gimbel Brothers, Bloomingdale, and many other stores which have had their license revoked. A Transmitters on the evening of October 4, 1980 Md.Delaware - Pennsylvania - D.C. - New Jersey - N.Y. Monday, January 21, 1981. Happy Holidays, follow NRC Members. Total stations are now standing at 2751."

"GET THOSE MUSINGS IN THE MAILS, LADS - AND WE HUGGLING MUSING THEM A COUPLE DAYS EARLIER THAN USUAL, PLEASE. IT'S MY WAY OF BEATING THE USUAL, AS THE MAILS ARE NOW GUTTED WITH CHRISTMAS CARDS AND LETTERS TAKE LONGER TO REACH THEIR DESTINATION IN THESE DAYS. PLEASE REMEMBER TO DOUBLE SPACE, PARTICULARLY THOSE OF YOU WHO WRITE BY HAND ON LINED PAPER. SOMEONE SAYS TO BE EDITOR ASKS MUSEUS TO DOUBLE SPACE AND THEN THE NEXT ISSUE JUST OVERLAPS IT ON THE TYPESTRIP TO GIVE US ROOM FOR ADDITIONAL TEXT PRIOR TO THE NEXT ISSUE."

"BSR'S A SATURDAY NIGHT D.J.

DOUG ALLEN - 1120 Millington Road - Scheveningen, New York - 12305 11/26/79

I have moved from an apartment to a house and am set up on all amateur bands 160-75m. I'm DXing with SP, 150 feet of wire, and Palomar Loop. The new location is much quieter than the city apartment, but I am closer to infamous WPTR. I was away for a couple of days when a department store owned by Strewbridge A Clothier. Along with Gimbel Brothers, Bloomingdale, and many other stores which have had their license revoked. A Transmitters on the evening of October 4, 1980 Md.Delaware - Pennsylvania - D.C. - New Jersey - N.Y. Monday, January 21, 1981. Happy Holidays, follow NRC Members. Total stations are now standing at 2751."

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"TELE MUSINGS SECTION! AND A VERY MERRY CHRISTMAS TO ALL.

ED RITTER - 4001 Landmark Circle - Tampa, Florida - 33615 11/30/79

Getting the Membership together is now second among my duties as Chapter Chairman. The membership has become a very active unit during the month of November. 25 new QSLs, 2 new clubs and 2 new DX contacts. The new members are: John Morey, 615 E. Central Ave., Columbus, Ohio; and Paul Allen, 3000 S. 1st St., Houston, Texas. A large number of new DX contacts have been made by the membership, including QSLs from: British West Indies, Canada, Chile, Colombia, Cuba, Dominican Republic, Ecuador, El Salvador, France, Germany, Guatemala, Honduras, Italy, Japan, Kenya, Luxembourg, Mexico, Netherlands, New Zealand, Panama, Peru, Philippines, Portugal, South Africa, Spain, Sri Lanka, Switzerland, and the United Kingdom.

"THE SUN GOES DOWN, MY SONY GOES ON

ED RITTER - 4001 Landmark Circle - Tampa, Florida - 33615 11/30/79

Note: As regards my previous Musing, I think K4TLV's s/off might have been G165; I wasn't looking at a clock at the time, and my watch is out for repairs."

"BACK IN THE LANDSCAPE

JOHN SAMSON - 1711 South 66th Street - Omaha, Nebraska - 68104 11/28/79

This is my 60th birthday. I hope it arrives in time, some recent DXing has been nice. With the 15 meter period in full swing, the 30 meter band group on the old 2Q5US has gone dead except for the 510-600 area. Fortunately a few interesting calls have been heard. K7G-900 F/T in fair under S3 noise on 11/4 w/T heard 10:05 to 12:09pm, new. W3RZ-1330 clear as a local 510 to 5:30 s/off on 11/5, first time with new call. W3GE-1600 weak 5:30pm, s/off. Also first time with new call. W3LL-1540 very weak by speaking above whisper, turned day away a good ID from W3N-1540, Yanceyville, N.C. who stayed at 5:15pm s/off, three calls and site IDs in three minutes. Then W3P-F took over briefly for another 'newy' on call changing over. This one ended 5:30am today. It was a lot calmer as in a local on 1540 w/5:30pm s/off. That's it from here. Happy Holidays and lots of DX to all.

"BEA'S SATURDAY NIGHT D.J.

PAUL MONTY - 756 West Columbus Street - Moline, Illinois - 61264 11/30/79

Thanks to KIRK SCHNEIDER, FRANK MERRILL, & GARY SIEGEL for phone calls; everyone owes me one.

On 1060 kHz received W3LL-FM-1600 Nov. 5, 1979. I currently guessed that Frank had new stats. There were times that members by speaking above whisper, turned day away a good ID from W3N-1540, Yanceyville, N.C. who stayed at 5:15pm s/off, three calls and site IDs in three minutes. Then W3P-F took over briefly for another 'newy' on call changing over. This one ended 5:30am today. It was a lot calmer as in a local on 1540 w/5:30pm s/off. That's it from here. Happy Holidays and lots of DX to all.

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"UPCOMING SPECIAL AREA ISSUE OF MUSINGS

Matteshad Date Area Deadline Date


February 11, 1980 Midwest - S.D. - Minn. - Wis. - Il. - Ind. - Ohio - Ill. - Miss. - Okla.
© Monday morning to 4:18am KMOX was off the air and testing with tones. A music motif,

A WKGX-1080 Stations heard now at Osage-1150, -1250, and KZMX showed up with IDs for WABB-1480 Mobile, Ala. 11/1.

SSS just tuned onto s/off a Nebraskan-1550

in to c/w mx. ll/ll- UnlD on 800 a SSS with CBC "Cross Country Check-up" s/on, into o/w mx. 11/6- SRS also, NKAC.1060 Athens, 7am and strongly it was KFBC Cheyenne.

11/18- UnlD Wyoming station a regular schedule until I was broadcasting 5:29-6:15pm me in null of WOW was gone. Oct. 8-25-1790 FFMx with an incredible signal, this at KKHI, 000w.

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5:45 -775:44. llll brought the first new split of the season in TIK.

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A brief intro from a new member of NBC: I am 16 years old & I have been Daring for about four years, although I have been interested in DX since my first birthday. My receiver is a realistic T4, with no external antennas. I am primarily a domestic DXer, but I do try for new countries every so often. After a recent trip abroad to Europe I have been picking up Awake. Recent DX includes: 11/16, a fantastic SSB session beginning with W1KX-1560 Blackwell, Okla, very good w/s/off. No CW, so I stuck around. Thirty minutes later, we had our first QSO, with a W1S. At 1130L, my most-wanted, KHX-1560 Phoenix, Ariz. made it through for state #56. The Bel-Air Drive-In on a popped-up on a moment later. W1KX-1560 was logged @ 0330PM to top off a great night. More recently, 11/20 as 1730L, K1X, 11/22, 1130, K1M, 11/25. This is my 109th W/C, so I know it's time to tuck in for the winter. My DX equipment is fairly basic: K1X, a half-wave vertical, a 10/4m loop, and a homemade dipole. My main goal is to hear some of the DX stations I have heard in Europe. I am looking forward to the winter DX season. 73s,
it is my hope that this will be the first of manyMusings from Brookfield. (We ALL do, Michael! -ERC)

HIS VERIE PERCENTAGE IS WELL OVER 90%!

MARTY WRIGHT - 2413 Jeanette Lane - Springfield, Illinois - 62702

Lots of good DX lately, mostly at SSS. I have listed what's been heard in 11/27-

2:15 through the talk show on WRTD. This is my 109th W/C, so I know it's time to tuck in for the winter. My DX equipment is fairly basic: K1X, a half-wave vertical, a 10/4m loop, and a homemade dipole. My main goal is to hear some of the DX stations I have heard in Europe. I am looking forward to the winter DX season. 73s,