



DX NEWS

*the magazine of the
National Radio Club*

SINCE 1933

Volume 49, Number 13 Monday, January 11, 1982

STATIC FROM HQ

As time has since demonstrated, last issue went together with all columns finally received, one a day late and one two weeks and a day late! Nice work Gary, who singlehandedly put that monster together. All columns for this issue arrived two days early in spite of another holiday-so we are pleased to put together another larger-than-normal issue for your Winter DXing. We are using almost everything we have built up here as of the past few weeks-thanks to the many contributors for the feature articles. And keep them coming to make the future issues of DX News better yet.

For all antenna buffs, the latest issue of QST (1/82) has the original 1922 article on beverage antennas written by H.H. Beverage. It has been edited for style and terminology to bring it up to present-day technical language, but nothing else has been changed. Most interesting reading for those so inclined.

We have received word from John Callarman that the long awaited 6th edition of the NRC Domestic Log will be further delayed. John is changing jobs and no longer has the time nor the use of the special typewriter used to type the master copies for the printer. So, in the interim, we have asked John to forward all material gathered to-date to HQ. We will attempt to take up where John was forced to leave off and hopefully have copy ready for the printer by this Spring for release sometime this Summer/Fall. DO NOT send any advance orders for this 6th edition as we have no firm publishing date or price established at this time. All advance orders will be returned until we announce otherwise. Thanks for your patience in this area-we are starting to learn what a time consuming and detailed process publishing a work of this magnitude truly is.

CPC TESTS

CPC activity continues this week at a steady pace. There still is time to arrange that test for the remainder of this season. From Rich Levin we have just learned that the W1QB-1570 test did not show per a tip from one of the contest entrants who lives near W1QB.

1/11 WJCM-960 Sebring, FL 0200-0300 EST using tones and code ID's, also Mon. march music. First 30 minutes will be with 1000 watts, last 1/2 hour will be with 500 watts. Reports to: Jim Kowalski, P.O. Box 1181, Sebring, FL 33870. Arranged by Paul Kowalski/NRC.

1/18 WBLT-1350 Bedford, VA 0005-0130 EST with their proof of performance Mon. In the first hour, Music and tones from 50 Hz. to 10 kHz. will be used. Reports to: John P. Laughlin, CE-WBLT, Box 506, Bedford, VA 24523. Arranged by Mike Knitter/NRC.

1/25 WSAJ-1340 Grove City, PA 0200-0300 EST. Will use tones, code ID's, Mon. sweep tones, march music and voice ID's for the rarest DX catch in the USA. Power is 100 watts into a longwire antenna-this station has been broadcasting since 4/26/20 and normally operates only 4 hours per week during the school season at Grove City College. Reports to: Tom Langmyer, WSAJ Radio, Grove City College, Grove City, PA 16127. Prepaid calls ONLY will be accepted at (412) 458 9352. NO COLLECT CALLS! Arranged by Jerry Starr/NRC.

4/26 WSUM-1000 Parma, OH 0300-0400 EST using music, code ID's and tones. Mon. First 30 minutes will be with 500 watts directional to the NE, last 30 minutes will be with 500 watts non-directional. Prepaid calls ONLY will be accepted at (216) 578 1111. Reports to: David Johnson G.E., WSUM c/o Mortenson Broadcasting Co., 619 Ameritrust Bldg., Canton, OH 44702. Arranged by Tim Davison/NRC.

On hand today at Gary's kitchen table is former LPCer Bob Walker, who pledges to rejoin now that he has graduated from college. Welcome back Bob!

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DOMESTIC DX DIGEST

DAVE SCHMIDT
42 CHELWYNNE RD.
CASTLE HILLS
NEW CASTLE, DE 19720

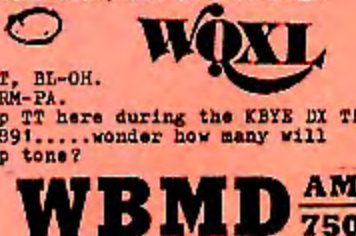
Here is the official NRC column which is as exciting as listening to Gary Atkins sing the National Anthem of the Idaho Potato Growers Union! When sending your items in, please keep them on one side of the paper, type or neatly write, RLTY, skip a line between items, etc. Here goes:

SPECIAL:

- 920 CFLS PQ LEVIS - 12/15 0125 very strong w/english Top 40 music, french anc'r, jingles. Must now be on 10000 watts. (DS-DE) 12/18 2254-2337 strong, alone w/almost exclusive US rock, French ads, frequent music ID's. Must be on 10000 watts now. (MT-MD)
- WTM NJ 12/24 not noted this AM, maybe off AN sked? Noted someone here w/America Overnite talk show, ABC news on hour. Is this WHJJ? (DS-DE)

DX TESTS:

- 890 KBYE Heard: JS-OH, NW-ON, WIZ-CT, BL-OH. Not heard: WPT-DC, DS-DE, RM-PA. What sounded like a non-stop TT here during the KBYE DX TEST was a hey from Algeria on 89!.....wonder how many will report KBYE running non stop tone?
- 900 WKDW Heard: PRM-NJ, BL-OH.
- 1190 KADE Not heard: WIZ-CT, DS-DE.
- 1270 WHZO Heard: WIZ-CT, RM-PA.



FREQ. CHECKS:

- TUES. AFTER SECOND MONDAY: WSNJ-1240 w/TT per list. (DS-DE)
- WRHH-1590 noted 12/15 0035 w/TT, ID anc'd as f/o. Either 3rd Tuesday or Tuesday after 2nd Monday, ad that to your list. (DS-DE)

MIDDAY - MIDNITE:

- 610 WIOD FL MIAMI - 12/19 1850-1855 end of Dolphins/Bills game, fair w/fades in WIP null. (RH-NJ)
- 630 KXOK MO ST. LOUIS - 12/19 1725 w/ID, MoR. (BL-OH)
- 790 WETB TN JOHNSON CITY - 12/1 1711 weak w/weather, ID. (MT-MD)
- 810 WQIZ SC GEORGETOWN - 12/1 1714 w/religion, s/off. The "Gospel Train" has neither derailed or verified! (MT-MD)
- 850 KOA CO DENVER - 12/18 2254 weak in between CJBG/WHAS splash w/Rockies hockey. (MT-MD)
- 860 KKOW KS PITTSBURGH - 12/19 1750 CW music, ID, fair signal. (BL-OH)
- 900 CJBR PQ RIMOUSKI - 12/19 1810-1815 in CHML null w/french CBC sports, mention of Giants victory, Spanish under. (RH-NJ)
- 910 WJCV TN JOHNSON CITY - 12/1 1716-1735 faint u/WBSA w/CW music, ID. (MT-MD) Nice to have you back! (Chicken Pox!)
- 920 WOKY MI MILWAUKEE - 12/24 1803 strong w/news in WTTM null. (DS-DE)
- 950 WKAZ WV CHARLESTON - 12/11 1710-1715 w/Paul Harvey, news, Mountain State mentions then gone. (MT-MD)
- KXJK AR FORREST CITY - 12/19 1759 s/off w/weather, time check. (BL)
- 1050 CFYN ON SAULT ST. MARIE - 12/19 1704 ID, rock music. (BL-OH) 12/7 1700 in briefly w/weather, ID, then buried by the usual WHN/CHUMP. (MT-MD)
- 1060 WNOE LA NEW ORLEANS - 12/1 1759 weak but there u/KYW w/CW music, ID. Noted again 12/7 1800. (MT-MD) Try any MM! (DS)
- 1070 WAPI AL BIRMINGHAM - 12/14 1735-1739 alone w/traffic report, Jack Donagor sports, mention of Falcons network, ads. (MT-MD)
- KPDI KS WITCHITA - 12/19 1803 news about KS prison protest, gas cutoffs, o/a WIBG. (BL-OH)
- 1130 WMOA GA MOULTRIE - 12/19 1812 noted after strong CW music station dropped out (likely KWKH), ID's, pop music. (BL-OH) 12/13 1730 s/off sounded like WVBL, looping NW/SE, mention noted for WGIA-FM. (BL-OH)
- 1150 WCRK TN MORRISTOWN - 12/1 1650 fair w/rock oldies, ID's. (MT-MD)
- CKOC ON HAMILTON - 12/3 2115-2130, 12/7 1805 smoking in w/rock music, ID's. (MT-MD) Can be heard nightly u/WBEL here! (DS)
- 1170 UNID 12/19 1745-1750 French call-in talk show, no sign of WNYA, could this be CPFX? (RH-NJ) Dat's right! (DS)
- WAMB TN DONNELSON - 12/6 1710 good o/WNYA w/MYL stuff, not an often visitor. (DS-DE) Have visited there often! (G. Greene)
- 1190 CHTN PRI CHARLOTTETOWN - 12/19 1820-1825 w/WOWO nulled, CW and Christmas music. Spanish also noted. (RH-NJ)

- 1190 WBDY VA BLUEFIELD - 12/14 1708 w/news, ID, CW music, bad het from WOWO. (MT-MD)
- 1240 WTON VA STAUNTON - 12/13 1730 atop w/3 ads then AT 40, mention made of Churchville Shell Service, which I stopped at last year on NC trip, led to ID on this one! (DS-DE)
- 1250 WLEM PA EMFORIUM - 12/13 1625-1635 mostly atop ending AT 40 then mention of winner of this weeks program, ads, ID, news. (DS)
- 1260 WPHB PA PHILLIPSBURG - 12/10 1640 noted way atop w/s/off w/SSB. (RM)
- WEZE MA BOSTON - 12/19 1748 w/1952 song, ID. (RR-NJ)
- KGRX MO SPRINGFIELD - 12/19 1817 remote from Battlefield Mall. (SE)
- 1270 WHLD NY NIAGARA FALLS - 12/10 1630-1635 way atop w/exciting local news. (RM-PA) That's the way HE wrote it, folks! (DS)
- WLIK TN NEWPORT - 12/1 1632 loud w/elementary sports scores (are they serious?), local ads. (MT-MD) Big time, big time! (DS)
- 1280 UNID 12/12 1629-1631+ MYL/BBD type music on "The Variety Club" whozzit? (JP/PRM-NJ) How'd you get Joe away from the Atari game? Isn't this WPKX in Horsebester? (DS)
- 1290 WPVA VA PETERSBURG - 12/13 1651 atop w/FM ID's, CW music, audio was visably distorted! (DS-DE)
- 1300 WAVZ CT NEW HAVEN - 12/10 1620-1625 salient in sundown mess w/boring ads. (RM-PA)
- 1330 WADJ PA SOMERSET - 12/13 1700 s/off w/annct, jingle. (WIZ-CT)
- 1350 WBLZ VA BEDFORD - 12/13 1658 s/off after NAB jingle w/mention of studio location and "transmitter plant", no SSB. (DS-DE)
- 1360 WGEE WI GREEN BAY - 12/17 1616-1626 CW music, ice fishing news, car ad, good o/WIXZ. (NW-ON)
- 1370 WPEA NH MANCHESTER - 12/12 2212 rare appearance w/Club 777 ad, old rock music then faded. (MT-MD)
- WCCN WI NELLESVILLE - 12/17 1730 s/off mentioning WCCN-FM, poor w/WSPD and GPLV. (NW-ON)
- WDEF TN CHATTANOOGA - 12/17 1720-1727 ads, traffic report, CBS news feature, poor-fair in WSPD null. (NW-ON)
- KDTH IA DUBUQUE - 12/17 1636-1637 weather for Iowa, mention of Iowa State Basketball, poor w/WKMC/WSPD. (NW-ON)
- WKMC PA ROARING SPRINGS - 12/17 1631-1645 w/news, weather, funeral announcements, s/off, w/WPAZ/WSPD. (NW-ON)
- WPAZ PA POTTSWOM - 12/17 1645 s/off, played s/on tape prior to s/off, poor-very poor w/WKMC. (NW-ON) Sounds like them! (DS)
- 1380 WSYB VT RUTLAND - 12/10 1615 managed to wrench clear ID from sundown mess. (RM-PA) (MT-MD)
- WBIC NC NEW BERN - 12/14 1657-1659 religion, record offer, s/off.
- WEED NC ROCKY MOUNT - 12/17 1659 in briefly w/local news, lost at their power change. (MT-MD)
- 1420 WVOT NC WILSON - 12/13 1705 strong in WCOJ null w/rock, ads. (DS-DE)
- 1430 WENS NY ENDICOTT - 12/12 1625 loud in local WNJR null (8 miles away) w/Top 40 music, jingle. (JP/PRM-NJ)
- 1470 WINH SC GEORGETOWN - 12/6 1714 quick s/off after chopping the Chipmunks Christmas Song, ID at end, no SSB. That's a real downer! (DS-DE)
- 1520 WTGR SC MYRTLE BEACH - 12/19 1705-1715 CW music til s/off, closes w/Old Flame by Alabama, good in WKW null. (RH-NJ)
- 1590 WAUB NY AUBURN - 12/14 1700 tentative w/clear ID in s/off w/no SSB, but 500 watts and 15 min. late? (MT-MD) Tentative only counts in Monopoly and Scrabble! (DS)
- 1600 CHNR ON SIMCOE - 12/8 1743-1747 local sports, farm news, loud until fade. (MT-MD)

MADE IN MICHIGAN

MIDNITE - MIDDAY:

- 550 CHLN PQ TROIS-RIVIERES - 12/7 0126 must have been the one here weakly atop w/french talk, music, quickly faded. (DS-DE)
- KSD MO ST. LOUIS - 12/27 0100 strong in WGR null w/ID, news. Heard only 3 times in the last 7 years, so I guess that makes 'em a rare one? The Cuban didn't seem to be on! (DS)
- 570 CJEM NB EDMUNDSTON - 12/25 0210 nicely atop w/french talk, taking phone-in greetings this AM, some french disco Christmas music. Dual ID given for CJEM, not CMKV as in updater! (DS)
- 630 WPRO RI PROVIDENCE - 12/24 0035 "63 PRO" w/rock music, ID's, w/no sign of the Cuban, WMAL nulled. (DS-DE)
- 680 WRKO MA BOSTON - 12/25 0259 ID during the "Christmas At Our House" program, w/WCBM/CFTR. (DS-DE)
- 710 CKVM PQ VILLE-MARIE - 12/25 0229 topping nulled WOR w/french talk and Christmas music from CBC network. (DS-DE)
- 830 WCCO MN MINNEAPOLIS - 12/21 ET/TT/OC most of AM. (JS-OH)
- 930 WKY OK OKLAHOMA CITY - 12/14 0015 w/ID. (BL-OH) Discriptive log!
- 950 WBBF NY ROCHESTER - 12/24 0241 loud w/WPEM nulled w/13th Annual Bridal Fair promo. (DS-DE)

- 950 CHNS MS HALIFAX - 12/19 0015-0035 weak but clear w/inspirational Christmas music, local ads, Canada Open Forum call in thing. (MT-MD) Dog woke 'em up! (DS)
- 990 WNYR NY ROCHESTER - 12/24 0242 after noticing WBBF so strong, tuned up and found 'em atop WZED w/CW music, ID then phone call, quickly faded. First time heard since moving up here from 680. (DS-DE)
- 1080 WCII KY LOUISVILLE - 12/7 0041 topping WTIC w/CW music, Country-11 ID's. (DS-DE)
- 1100 WWWE OH CLEVELAND - 12/21 back on this KM w/their regular CW stuff. (JS-OH)
- 1140 CJTR PQ TROIS-RIVIERES - 12/25 0253 very strong c/WRVA w/French Christmas music, w/some WDEL splash. (DS-DE)
- 1170 WVVA WV WHEELING - 12/16 0100 noted off this AM. (DS-DE)
- 1190 WOWO IN PORT WAYNE - 12/21 0030 noted off this AM leaving CHTN very strong, no sign of KADE later on. (DS-DE)
- 1260 WJJJ VA CHRISTIANBURG - 12/24 0209 caught ending ET w/rock music, ID at end then off, fair c/WVDC. (DS-DE)
- 1280 WGSO LA NEW ORLEANS - 12/7 0118 alone, atop w/"Merry Christmas from WGSO and WVUE" then french christmas music. (RM-PA)
- 1360 WKAT FL MIAMI - 12/21 0140-0158 atop w/Sinatra type music. (RM-PA) Hey...either it is or it isn't Sinatra music, Jerry Vale doesn't qualify! (DS)
- 1380 WAOK GA ATLANTA - 12/21 0042 talk show, weather report, good. (WPT)
- 1430 WIRE IN INDIANAPOLIS - 12/21 0200 managed to wrench clear ID in surreal type conditions. What gives? (RM-PA) Simple.... it was a reflection off an auto rear view mirror! (DS)
- 1470 WORO OH TOLEDO - 12/7 0156-0215 atop at times w/rock music, Hans Smith show, ID, 1st time heard here. (DS-DE)
- 1490 WABD MI ADRIAN - 12/14 0137-0200+ fair w/EZL music, per RA tip, ID for WABD and WQTE, w/UNID and splash from WLQV/WJIT. One of my better G-Y's! (RM-NJ) Mine, too! (JS-OH)
- 1530 WCKY OH CINCINNATI - 12/21 0010 noted off the air. (WPT-DG, DS-DE)
- 1560 UNID 12/7 0140 caught tail end of "on the air for equipment test purposes" then OC, o/WPAD, WQXR was off. (DS-DE)
- 1580 WJIK NC CAMP LEJUNE - 12/24 0140 popping on and off this AM w/religious music, ID's for ET, audio was distorted at start but clear by tune out. (DS-DE)

HERE'S ONE:

- 960 UNID 12/26 0230-0245 TT noted 0230-0240, ID for Stereo 95 then EZL music, ID given at 0245 but faded w/CKWS/WFIR, again mentioning Stereo 95. This is the second month in a row this has been noted here after arriving home from the WCNE f/c, can someone check it further? Loops 2/W as in WPEW-950 null.

RANDUMBS:

Still on the 11p-7a shift, but switched over to 3-11p this week to take advantage of KM's. Looks like the post office took care of getting the column late last week, this one is going out Tuesday. Maybe one of the hiring practices at the post office should be being able to read?

MEMBERS OF THE COUGHY CLUB:

WPT-DC	Bill "Mr. Batteries" Townshend, Wash., DC	ICP55W
JF/PRM-NJ	Joe Fela visited by Paul Mount (lucky you!), South Plainfield, NJ	HQ180, SM2
PRM-NJ	Paul Mount, Teaneck, NJ	Stuperadio
RH-NJ	Rich Harrison, Ocean Grove, NJ	Grundig 3400, SM2
MT-MD	Mike Tuggles, Bel Air, MD	Hammerlund Ital
NW-ON	Neil Wolfish, Toronto, ON	FRG7, SM2
WIZ-CT	The Wizard of Poquonook	HQ150, Loop
BL-OH	Brad Lovett, Dishwater, OH	
RM-PA	Remington Q. Murphy, Roslyn, PA	DX160, SM2
JS-OH	Jerrine Schtarr, Hubbard, OH	HQ180, Looped
DS-DE	Who'd you expect? Andy Devine?	HQ180, SM2

See you all next week!

73's - Good DX!



INTERNATIONAL DX DIGEST

CHUCK HUTTON
P.O. BOX 2067
DECATUR, GA 30030
(404) 633-1198
BEFORE 2300 ELT

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Monday.

Here we are again...This time I'm home from work suffering from the flu. Monday passed with me flat on my back so today I'll do what I can rather than have no column. Wonder of wonders, I may even finish it but the chances are slim. What appeareth not this time will make it next time.

- 155 USSR Khabarovsk 11/30 1035 male w/RR talk. (Vernon)
- 164 FRANCE Allouis 11/30 1036 male singing w/kids then 2 male anners in FF, add time to hear this. 12/2 0505 male w/FF talk, wasn't noted an earlier. Maybe not AN now? (Vernon)
- 173 USSR Yakutsk 11/30 1042 male w/RR talk. (Vernon)
- 173 USSR Kaliningrad etc. 12/2 0153 noted w/high and low tones, 0159 PS IS, female annor, 0200 Kremlin Bells, USSR anthem. Xint sig. (Vernon)
- 179 EAST GERMANY Jranienberg 12/2 0135 lots of mx, mostly OG, no snchts, best TA at this time. (Vernon)
- 182 USSR Petropavlovsk 12/1 1050 male annor than female singer, regular here now. 12/2 0645 two male anners, RR talk, fair sig, note the time! (Vernon) Ho hum.....CH
- 185 WEST GERMANY SaarLouis 12/1 0647 2 anners w/FF talk, this not noted AN earlier. (Vernon)
- 191 USSR Blagoveshchensk 12/2 1026 male annor w/talk //155. (BV)
- 191t SWEDEN Notala 12/2 0605 male w/talk, QRN high but sounded //1179, female at 0632 as was on 1179. (Vernon)
- 200 ENGLAND Droitwich 12/2 0617 male w/talk, USSR w/opera QRM, a bit clearer 0626 w/female annor and shipping forecast. (Vernon)
- 200 USSR Leningrad 12/2 0546 male singer of opera type, 0559 Hayak IS, easily topping BBC later. (Vernon)
- 200 USSR Irku 12/2 1548 classical mx //155. (Vernon)
- 209 ICELAND Vatnsendi 12/1 1058 choir mx, 1100 female just after the hour, no pipe, 12/2 1058 chorus-type mx, 1100 male annor then another w/probable mx, fair sig, was in for quite a while. (Vernon)
- 227 POLAND Konstantynow 12/1 1101 military trumpet sounds, female annor, very big signal, time correct. 12/2 0214 male w/talk. (Vernon)
- 236 USSR Magedan 12/1 male annor 1050 //182. (Vernon)
- 236 USSR Arkhangelok/Leningrad 12/2 0204 male and female followed rather, then nx-sounder and some anners //173, 263. (Vernon)
- 261 USSR Moscow 12/2 0204 very big sig //173, 263. (Vernon)
- 531 ALGERIA Ain Beida 2256 12/16 AA mx, poor in beacon QRM. (Connelly) 2215 12/21 AA talk. (Connelly)
- 549 ALGERIA Oran 2324 12/16 AA talk in end out of 550 domestic stop. (Connelly)
- 555 ST. KITTS Basseterre 0058 12/17 Caribbean mx and interspersed EE talk, fair to good. (Connelly) 11/29 2357 signal cleared of adjacent channel stop by use of narrow selectivity position. Religious program-talk on subject of abortion. This one can be heard in NYC better than any other split. (Connelly)
- 567 IRELAND Tullamore 2335 12/19 Irish fiddles and pipes, good. (Connelly)
- 576 USSR Irkutsk etc. 12/2 1446 female singer //182, 236 Program Two. (Vernon)
- 579.8 UNID growl against 580 0350 12/18. (Connelly)
- 585 USSR Svobodnyy 12/2 probably the outlet w/OG talk by female annor 1542. (Vernon)
- 600 UNID SS o/u CPQC w/GJOR nulled 0850 12/21. Faded before ID time, probably Cuba. (Portzar)
- 612 MOROCCO Sebba-Aioum 2332 12/19 bits of female AA chant, poor o/2 station (Ireland/East Germany?) SAH. WQIR-610 nulled. (Connelly)

- 630 NORWAY Vigra 12/2 0705 male w/nx o/GHED then KJNO, big sig, noted //675. 12/3 0659:30 pips to 0659:55 then pip 0700, poor but was good earlier. (Vernon)
- 639 CHINA Beijing 12/2 1537 female singing in CC opera-style //837, big bet on 640. (Vernon) I guess 640 was only KPI or do you hear something exotic? CH
- 640 COLOMBIA NABJ Santa Marta 0343 12/20 festive rhythmic accordion mx, network ID mentioning "le radio de Colombia", Cuba not noted. (Connolly)
- 640 CUBA 1130 12/16 soft Latin mx, Habana ID, fair/slow on channel. I was looking for KPI in this pre-dawn period to spot possible Mexico/west coast TP/DU openings but no such luck. (Connolly)
- 640 GUADELUPE Arneville 2217 12/15 FF talk, good o/Spain-639 hot. At cruncher level w/FF talk and rock 0052 12/17--has this raised power? (Connolly) (Not unless they had the nerve to do it without informing anyone-CH) 12/19 2345-2355 strong but noisy signal with pgn in FF, similar to those originating from Georgetown and Paramaribo. Short bursts of jazz and rock instrumentals, short bursts of talk sounding like ads and personal messages. No Cuba, no WHLO. (Harrison)
- 640 VENEZUELA Puerto la Cruz YVQO 0344 12/18 SS ads for businesses in Caracas and other Venezuelan cities; crowd noises-maybe sporting event. (Connolly) (Or martial law imposition-CH) Good, atop w/SS ballads then into baseball game 0019-0025 12/12. (DeLorenzo)
- 648 ENGLAND Crfordness BBC 2213 12/21 BBC nx in EE about crisis in Poland. (Connolly)
- 650 DOMINICAN REPUBLIC Santo Domingo HIAT 0504 12/20 "Universal, Santo Domingo" ID, TC then uptime SS vocal. (Connolly)
- 657 USSR Murmansk 12/2 1233 classical piano mx, 1243 female snnr, much better audio quality than last week. (Vernon)
- 666 UNID 11/30 0150 chorus type mx, weak sig. (Vernon)
- 666 UNID carrier looping TP, bits of female vocal mx 1125 12/7. Probably Russia. (Portzer)
- 666 USSR Komsomolek-na-Amure 12/2 1447 male singer //576, 182 etc. with Program Two. (Vernon)
- 675 NORWAY Bodo 12/2 0713 female and male snnr w/talk, bits of mx between items, //630 fair. 12/3 0654 female singer //630 poor. (Vernon)
- 693 ENGLAND Droitwich 11/30 0650 thunderball mx, 0652 male snnr gave a BBC quiz //882, both xlint on Radio Two net. (Vernon)
- 693 USSR Anadyr 11/29 1729 fair carrier, KICY-850, KNOM-780 both like locals, only thing noted was Mayak IS, after 4 years it ain't much! (Vernon) Well congratulations anyhow-CH
- 693 UNID 12/14 1440 unid carrier, no audio at all, possibly Japan. (Stonebridge)
- 702 JAPAN JOFB/JOKD Hiroshima/Kitami 12/2 1019 male and female EE lessons //774 NHK2. (Vernon)
- 711 FRANCE Rennes 11/29 0642 instrumental mx then male and female snnrs, FF talk. 11/30 0611 xlint sig. male snnr, FF talk. (Vernon)
- 720 HAWAII Eleale KVAI probably the unid w/non-stop EE religious pgn looping NE/SW 0828 12/21. (Portzer)
- 720 PORTUGAL Norte-Azurara 2222 12/21 man and woman in FF, audio muffled (no treble); briefly stop YVOE. (Connolly)
- 720 USSR Yuzhno-Sekhelinsk 11/29 1518 EE pgn I think called "Facts and Figures", 1530 nx in brief, poor sig. Noted 1648 male RR talk o/soccer type crowd, local-like sig. (Vernon)
- 720 VENEZUELA Forlemer YVOE 2223 woman in SS w/numerous Venezuela mentions, including local ads; rising atop Portugal. Luckily Cuba and WGN were nowhere to be found. (Connolly)
- 729 SPAIN Oviedo atal 2340 12/19 man in SS, fair o/2.2 Hz SAR, (Connolly)
- 739 SPAIN Barcelona 2341 12/19 man in SS, fair in CBL slop. (Connolly) 11/30 0223 disco mx, noted 0230 w/male SS singer. (Vernon)
- 740 VENEZUELA Maracaibo YVNO 2343 12/19 w/Banco del Caribe ad, ads for things in Caracas and Margarita, good w/CBL nullled. (Connolly)
- 747 HOLLAND Flevoland 2227 12/21 DD version of "O Come All Ye Faithful", loud-often better than adjacent CBGY/YVKS/W3B on 750. (Connolly) 2300 12/19 talk by woman in a Germanic language (likely DD) then cl mx. (Connolly)
- 750 GREENLAND Unisak 12/2 1051 melody of mx //850. (Vernon)

- 750 VENEZUELA YVKS Caracas 0412 12/18 Sreissend song then SS talk/Radio Caracas ID, good/dominant. (Connolly)
- 756 PORTUGAL Lisboa 2257 12/19 PP talk by several snnrs, good. (Connolly)
- 756 WEST GERMANY Braunschweig/Revenaburg 0500 12/20 GG talk, 5 short pips, one long pip, nx in GG-loud! Odd jamming-type signal way in the background. (Connolly) 11/30 0613 male snnr w/OG talk. (Vernon)
- 760 COLOMBIA Barranquilla NJAJ 0410 12/20 LV de Barranquilla ID, accordion mx, good w/WJR nullled. (Connolly)
- 760 CUBA R. Holoj 1135 12/16 (just before dawn): nx by man and woman in SS, time pips once a minute; WJR nullled. Unfortunately no evidence of TP/DU activity at this supposed prime time. (Connolly) I think the term prime time is rather improper and irrelevant for east coast TP/DU DX-CH
- 760 HAITI Les Cayes HVU 2256 12/15 FF dialect talk. 0049 12/17 weird-sounding FF. Lusiore mention, possible religious pgn. (Connolly)
- 765 SENEGAL Dakar loud w/AA and vernaculab yelling, 2318 12/14. (Connolly) 2244 12/21 AA talk, good. (Connolly) 2300 12/15 AA talk. (Connolly)
- 774 JAPAN JOVB Akita man and woman and what sounded like SS language programs. Pips on the hour followed by musical pgn. This 1414-1505 12/14 with fair signal //828 and 873. (Stonebridge)
- 774 SPAIN synchronos good w/SS nx 2330 12/14. (Connolly) 2155 12/19 SS talk, fair through WABC slop. (Connolly) 11/29 0656 male snnr with "le musica". (Vernon)
- 783 EAST GERMANY Burg 11/30 0614 instrumental mx, very big signal. (Vernon)
- 783 NORTH KOREA Chongjin 12/2 1455 singer //819. (Vernon)
- 783 PORTUGAL Porto-Miramer 2255 12/19 PP talk at low audio level, poor to fair o/the E. German. (Connolly)
- 792 AUSTRALIA HQO Brisbane 12/2 1446 BBC-type play. (Vernon)
- 800 NETHERLANDS ANTILLES Bonaire PJB 2304 12/16 SS talk, xlint. (Connolly)
- 810 SCOTLAND H. Scotland Burghhead 11/30 0607 male w/soccer stories and other sports, CHQR QRM. (Vernon)
- 810 USSR Vladivostok? 12/2 1758 instrumental mx, male snnr, 1759:50 FS IS, 1800 male and female snnrs, CC lang, familiar band mx and snnrs again. Perhaps this has moved from 1251, not noted on that freq in a while, will check. (Vernon)
- 819 MOROCCO Rabat 2305 12/16 AA talk to good peaks o/the LA/WOSU Imbraglio on 820. (Connolly)
- 819 NORTH KOREA Pyongyang 12/2 1600 pips, male snnr, noted w/great choir mx earlier. (Vernon)
- 825 PANAMA Mecaracas 0325 12/20 romantic style SS vocal, SS talk w/Peninsula ID, then rhythmic LA dance mx, fair. (Connolly)
- 825 ST. KITTS Basseterre 2306 12/16 EE preaching, good. (Connolly) 12/19 2305 the oft-received R. Paradise with George Beverly Shea singing a nice version of "Amazing Grace". This one often raises a stronger and clearer signal into the area than WNYC on 830. (Harrison) LxC with Christian pgn in EE 0644 12/12. (DeLorenzo) With church snnrs 2210 12/16. (DeLorenzo)
- 828 CHINA Beijing tent. 12/2 1428 male CC oriental type singing u/NHK2. (Vernon)
- 828 JAPAN JOVB Osaka men and women in JJ //774 and 873 12/14, fair. (Stonebridge)
- 828 MOROCCO Oujda 2245 12/21 AA chant through WEDH slop. (Con)
- 837 CHINA Herbin 11/29 1658 male w/CC talk, 1700 pips, female and male Po-Tien-Ti ID, poor sig. 12/2 noted w/pips 1500 u/Japan anthem, 1515 Po-Tien-Ti ID following talk by male and female snnrs, xlint after JOKK a/off. (Vernon)
- 837 FRANCE Nancy 11/30 0635 female snnr w/lots of FF talk. (Vernon)
- 837 UNID 12/14 1418 men in strange (unknown to me) language. Could this be Korea? Fair. (Stonebridge) Considering the time, China or Korea I guess-CH
- 840 ST. LUCIA 12/13 2307 FF language news broadcast discussing imposition of martial law in Poland. Way atop WHAS and a SSS stn. Again at same time w/news in FF on 12/19. (Harrison)
- 850 GREENLAND Upernavik 12/2 1053 melody of tunes //750 o/KICY w/RR lingo. (Vernon)

855 NORTH KOREA Sangwon 12/2 1454 female w/KK talk. (Vernon)
 860 DOMINICAN REPUBLIC R. Clarin 12/13 2357 SS broadcast of baseball game. EE words "pitcher", "ball", and "foul" came through. Played before sparse crowd-no crowd noise coming through. (Harrison)
 864 FRANCE Paris 11/30 0614 male w/FF talk. (Vernon) 0533 12/20 men in FF, fair. (Connolly)
 873t CHINA 12/2 1225 female w/China opera-type singing u/NKK2. (Vernon)
 873 JAPAN JOGB Kumamoto w/man and woman in JJ //774 and 828 12/14 at 1415, fair. (Stonebridge)
 873 USSR Mezon 12/1 1058 female w/RR talk, 1058:45 silence, 1059:40 male announcer, 1100 nx-sounder. (Vernon)
 882 ENGLAND Washford et al 11/29 0730 SID "This is Radio Two", male announcer, Helen Reddy record. (Vernon) (No wonder you tuned out, hi-CK) 0255-0300 12/18, Muzak rendition of theme from "A Man and a Woman", group vocal version of "Cotton Jenny" (that's one I don't know-CK) (who cares?GH), then mx in EE, good. (Connolly)
 891 ALGERIA Algiers 2205 12/15 AA talk, good. 2309 12/16 nx by men in AA, good but not as strong as WIS tonight. 2214 12/19 man in AA, xint. (Connolly) 11/30 0151 male announcer, male w/AA singing, 0200 3 short pipe and one long pip, male w/AA talk, fair sig. (Vernon) Like a local w/AA talk; no 890, 12/14. (Connolly) L&C w/dramatic monologue by young woman in AA, occasional light piano mx 2141-2145 12/18; loud 1 kHz het against WHNC. (DeLorenzo)
 *****891*****
 In the Bill Townshand showcase department....
 ALGERIA Algiers 12/21 0632 female vocal singing in AA accompanied by Middle-East type musical instruments then talk by man in unfamiliar language, probably AA. When WLS-890 signed off at 0605 a 1000 Hz het was noticed and continued for at least an hour. This meant something was coming in on 891, hitting with HJCE-Sogote. The only station filling the bill is the above. My first TA catch! (Townshand) Congrats!!
 891 JAPAN JOHK Sendai 12/2 1430 famous classical piano pieces //882 and 837 NKK1. (Vernon)
 909 ENGLAND synchros 2240 12/19 opera, fair. (Connolly) 2249 12/21 loud w/opera (reducing 910 to a het). 2318 12/21 EE panel discussion. (Connolly) 11/30 0139 male announcer, folk tune. (Vernon)
 920 CANADA CKQC Quesnel 11/29 1538-1600 male announcer and mx, all in Punjabi lingo. 1600 CKWL ID "Caribou Radio", woman w/nx in EE. Thought I had an off-freq Indian for a while, darn it. (Vernon) You should have known better, hi-CK!
 927 BELGIUM Wolverson BRT 11/28 0605 male w/DD talk. (Vernon)
 927 UNID (probably Belgium) 2237 12/19 mx in sloop. (Connolly)
 936 ERINA Anhui PBS Hefei 12/2 1453 female w/bunch of kids, all CG. (Vernon)
 936 WEST GERMANY R. Bremen 11/30 0606 female announcers then disco instrumental mx. (Vernon)
 910 VENEZUELA Maiquetia YVRQ 2330 12/16 R. Aeropuerto ID, SS talk-barely o/a pile of other stations, fast SAM resulting. (Connolly)
 945 FRANCE Toulouse 2225 12/19 men in FF, fair. (Connolly)
 954 JAPAN JOHR Tokyo 12/2 1451 male announcer w/JJ talk. (Vernon)
 954c SPAIN Madrid likely w/cl mx 2235 12/19. (Connolly)
 972 SOUTH KOREA HJGA Dangjin 12/2 1755 male and female announcers, KK happy mood instrumental mx. (Vernon)
 972 WEST GERMANY Hamburg 11/30 0139 female singer in CG, bear garden-style mx. (Vernon)
 1008 AUSTRALIA 4IP Brisbane 12/2 rr mx, 1200 male announcer w/4IP mention, more rr mx, good signal. (Vernon)
 1008 HOLLAND Flevoland 11/30 0221 comedy w/female and male. (2V)
 1008 USSR Magadan 12/1 cl mx 1128 male w/RR-sounding talk between mx. (Vernon)
 1008 UNID (probably Holland) G454 12/20 vocal mx o/SAM, looping TA, poor in WINS sloop. (Connolly)
 1017 CHINA Jilin PBS, Changchun 11/29 1638 male announcer w/slow talk, again very over-amplified audio. (Vernon)
 1017 JAPAN JOLE Fukuoka 12/1 male w/JJ talk, probably nx, // NKK2. (Vernon)

1017 WEST GERMANY SWF Wolfheim 11/29 0631 GG folk type tune. (Vernon)
 1026 AUSTRALIA LMK Mackay 12/2 1157 male announcer, mentioned nx next on LMK, rr mx. (Vernon)
 1026 AUSTRIA ORF Linz 11/29 0627 classical ballet type mx, 0628 woman w/CG talk. (Vernon)
 1026 CHINA Beijing tent, 12.2 1506 female w/CG talk. (Vernon)
 1035 HAITI LVEEC 12/13 2349 EE religious pgm, standard LVEEC fare. No WEZ splash; some minor splash from 1040 (WHO plus SS). This one is audible in New Jersey without the SM2 and in wide selectivity mode. (Harrison)
 1035 PORTUGAL Porto 2231 12/19 PF talk, Pop mx, poor o/presumed Italy/Haiti. (Connolly)
 1035 PORTUGAL Lisbon 11/29 0703 male w/PP talk, nx I guess. 0703 1/2 rx sounder, another male announcer. (Vernon)
 1044 CHINA Henan PBS Chengzhou 12/1 1217 kids singing then woman announcer, audio overemphasized. (Vernon)
 1044 EAST GERMANY DDR1 Burg 11/28 0618 Hollies rr record, 0619 male announcer in GG. (Vernon)
 1044 MOROCCO Sebba-Aicun 0530 12/20 "Killing Me Softly" by Roberta Flack poor o/the East German and a feeble 1045 LA het. (Connolly) Situation exactly reversed here-CH
 1044 NEW ZEALAND 4ZB Dunedin 12/2 rr mx, poor signal, //1035 good. (Vernon)
 1053 ENGLAND BBC Droitwich 11/28 0621 promo for competition in Radio Times and BBC Orchestra at 10, wx forecast followed. (Vernon)
 1053 KOREAS 12/1 1216 echo sounds, xint sig but consistently blocks JOAR here. (Vernon)
 1062 DENMARK Kalundborg 11/29 0637 old dance type mx, 0640 waltz mx, no annets. (Vernon)
 1062 ITALY synchros 0512 12/20 II talk, poor in WGRB sloop. (Con)
 1098 MARSHALL ISLANDS WS20 Majuro 12/2 0746 male w/native talk than EE "16 to 8 in the evening", EE HoR mx, 0750 male w/EE TC then native talk. Beatles record followed. (Vernon)
 1100 ANTIGUA St. John's ZDK 003h 12/17 interesting Caribbean sports call-in talkshow, o/HJAT w/WNWE null. (Connolly)
 Xint w/island nx by man in Caribbean EE 2247 22/14. (Connolly)
 12/13 2259 news from BBC World Service, some SSB in tight WNWE null. (Harrison)
 1107 UNID patent het on YVQT/WBT-1110; ex pointed to Spain rather than Egypt as the probable source of this, 2314 12/14. (Con)
 1110 VENEZUELA Carupano YVQT bombing WBT: Rumbos mention, excited SS talk 2313 12/14. (Connolly)
 1116 UNIDS (probably Italy/Morocco) 0518 12/20 two carriers, fast SAM. (Connolly)
 1150 MEXICO Mexicali XERN fair in CKIQ null w/"Radio Sensacion" ID and SS version of "Bring It On Home To Me" 0829 12/14. (Portzer)
 1160 CUBA atop vhfannel w/SS talk of a political nature, frequent Cuba mentions-alone on channel through slight WSNY-1150 sloop 0254 12/15. (Connolly)
 1165 ANTIGUA 11/30 0015 preacher in EE. No WVA splash but some from SS on 1160. Mention of Radio Lighthouse. (Harrison)
 Xint w/woman in EE 2246 12/14. (Connolly)
 1170 HAITI Port-au-Prince LVECS becoming a regular during Caribbean openings; FF good o/u WVA 2335 12/14. (Connolly)
 1170 SOUTH KOREA HJLR Gimje 12/2 1802 male w/KK talk topping KJNF. (Vernon)
 1179 SWEDEN Horby 12/2 0609 deep-voiced announcer w/Swedish talk, poor signal. (Vernon)
 1188 HUNGARY Szolnok 11/30 0600 6 pips, nx sounder, woman briefly then male w/nx, 0601 1/2 double bass type tones (3 or 4), male again w/nx, good sig, was in for quite a while. (Vernon)
 1188 JAPAN JOKP 12/2 0636 female and male w/JJ talk, never noted so early. (Vernon)
 1188 SOUTH KOREA HJLK Incheon 12/2 1524 probably the stn w/a Christmas tune. (Vernon)
 1197 MOROCCO Agadir fair w/jazz, FF talk, pop mx; about equal in strength to the LA hodgepodge on 1200. 2311 12/14. (Con)
 1197 WEST GERMANY VOA Munchen 11/28 0610 male w/EE talk about religion. (Vernon)
 1200 CUBA CMJQ R. Revolucion, Palma Soriano good, alone w/talk by man in SS 2255-2300 12/18. (DeLorenzo)
 1206 FRANCE Bordeaux 2059 12/19 cl mx, fair to good. 2145 12/19 FF talk, good. 0519 12/20 men in FF, loud. (Connolly)

1206 FRANCE Bordeaux loud w/FF talk 2244 12/14. (Connolly)
 1210 UNID Dominica? Creole FF then soul mx w/WCAU, o/YV's 2243 12/14. (Connolly) Or Haiti-CH
 1215 ALBANIA Lushnje 0437 12/20 women in Slevic-sounding lang. (Connolly)
 1215t ENGLAND 2145 12/19 c3 mx/opera, poor. (Connolly) 12/2 0727 cl mx, very good signal. (Vernon)
 1243 JAPAN JOLF Tokyo 12/2 noted w/talk and mx pgm all //1413, 1440 even the spots // except at 1701 when different commercials noted on each stn. Back to the net 1702 1/2 w/ jingle, sounded like "All Night People" but signal faded at that time. (Vernon)
 1251 LIBYA Tripoli 11/30 0151 AA type ibstrumental mx, good sig with no het for once! (Vernon)
 1269 WEST GERMANY DLF Neumunster 11/30 0631 female w/opera type singing. (Vernon)
 1270 GHRD R. Reloj, Casagwey feib in jumble w/nx while trying in vein for WREO test 0609-0616 12/7. (DeLorenzo)
 1305 SOUTH KOREA HLSV Uljin KBS 12/2 1523 fair sig w/male talk //1467. (Vernon)
 1314 AUSTRALIA ZWL Waulongong 12/2 rr mx 1219, male with ZWL ID, just topping JOUF briefly. (Vernon)
 1314 CHINA R. Peking Chongqing/Zushou 12/1 1132 male w/RR talk. (Vernon)
 1332 JAPAN JOSE Nagoya 12/2 1219 two males w/JJ talk. (Vernon)
 1349 MAURITANIA Nouakchott like a local v.female chanting and wailing, flattening the 1350 domestics 2257 12/14. (Connolly)
 1350 FRANCE Nancy/Nice 11/30 0551 male w/FF talk, clear sig, no QRM. (Vernon)
 1353a UNID LA het 0250 12/15. (Connolly) R. El Patio, Honduras-ex 930-CH
 1359t SPAIN Figueras (new outlet) assumed to be the station here w/SS talk on 12/14 at 2300; on peaks it reduced WDRG-1360 to a het. Most of the time it was a fairly even dogfight between WDRG and this TA with a raucous het resulting. (Connolly)
 1375 ST. PIERRE ET MIQUELON 2102 12/19 men in FF, good. (Connolly)
 1377 FRANCE Lille 2101 12/19 FF talk, poor. 0522 12/20 FF apparently // 1206, fair in heavy WAWZ shouting proacher slop. (Connolly)
 1386 JAPAN NHK synchros fair w/men in J3 1156 12/7. (Portzer)
 1395 ALBANIA Lushnje 2105 12/19 talk by man and woman, apparently FF, in bad WLLH slop. (Connolly) 2312 12/21 men and women in SS w/talk about capitalists and communists, xint- absolutely blasting in. (Connolly)
 1404 GUINEA Conakry 2311 12/21 mixed talk and singing by men in African vernacular language, accompanied by random guitar strums, superloud. (Connolly) Good w/women in FF at only about 20% modulation on a huge carrier, killing adjacent domestics 2308 12/14. (Connolly)
 1413t JAPAN JOIF Fukuoka 12/2 noted off and on 1613-1705 carrying some pgm as //1243, 1440, mostly talk but some mx. Different spots noted 1701-1702 1/2. (Vernon)
 1422 WEST GERMANY Saarbruecken 2309 12/21 GO pop/MoR mx, fair. (Connolly)
 1430 GREENLAND Thule AFB 11/30 0700 ID as "For information and entertainment, American Forces Radio, Thule". APR mx followed. Xint sig, can't understand how I overlooked this before. 12/2 noted w/tune "Who Listens to the Radio?", odd record to play what? (Vernon)
 1440t JAPAN JOWF Sapporo 12/2 perhaps the stn carrying AN pgm //1243, 1413, seemed to talk about Switzerland 1704 then mx instrumentals "around the world". Don't usually listen at this time but the bees let me have the morning off. (Vernon) You must have told him how important it was, hi-CH
 1440 LUXEMBOURG Mernach 2307 12/21 disco mx, R. Luxembourg ID, shouting EE DJ; bulldozing WFTQ on car rx at shore. A few minutes later, a few miles inland WFTQ took over. (Connolly)
 1440 SAUDI ARABIA Dammam 11/29 female AA singing, 1755 instrumental mx, 1758 singing, faded at 1800 but feel sure any pips played would have made it; none did, hrd male w/talk faintly just after 1800. No sign of BBC-1413 nor UAE-1401. (Vernon)
 1449 JAPAN JOQM Abashiri 12/1 male snner w/JJ talk 1201, //1287 HBC, xint sig. (B. Vernon)
 1458 ALBANIA Lushnje 12/1 0430 women then fsmlier band mx, woman again w/talk. Greek listed. (Vernon)

1458 USSR 12/2 1650 xint sig for hours this AM, //1521, 182, 191 etc. on Program Two. (Vernon)
 1467 MONACO Monte Carlo poor w/hymn 2306 12/14. (Connolly) 2137 "Hark the Herlad Angel Sings" then EE preaching to good peaks. (Connolly) 2304 12/21 "Silent Night" then EE talk; at local level, reducing the 1470 domestics to a barely discernable het. (Connolly)
 1467 SOUTH KOREA HMKH Mogpo 12/1 1200 pips, male snner. (Vernon)
 1476 AUSTRIA ORF Wien-Bismberg 12/2 0547 probably the stn playing waltz mx by Strauss, who also, hi. (Vernon) 2303 12/21 man in GG good. (Connolly)
 1476 CHINA/USSR the usual mess of raucous buzz/KK talk/GG talk 1103 12/7. (Portzer)
 1476 USSR Vladivostok 12/2 0730 classical piano mx, 0731 1/2 male and female w/Pe Yian Ti ID and CC talk. Note the time! (Vernon)
 1485 UNID 12/2 1207 band mx western style noted 1215 w/opera type mx, no // found. (Vernon)
 1503 POLAND Stargard Szceciniski 11/28 0612 big sig, male w/ polish talk, instrumental mx followed. (Vernon)
 1521 USSR unknown, 12/2 classical mx //182, 236 w/Program Two net, good signal. (Vernon)
 1540 BAHAMAS 12/20 0000-0008 ZNS in WPTH null. Reasonable quality signal at start then steadily degrading. News program w/both male and female annors. Frequent mentions of local events and personalities in Bahamas. (Harrison)
 1548 AUSTRALIA HQD Emerald 12/2 1213 male w/nx, mentioned a mortician's strike down there. (Vernon) And what are they doing in the meantime??? CH
 1548 CHINA Shantung PBS Ruehan 12/2 1521 male and female annors w/CG talk, fair sig for short time. (Vernon)
 1550 UNID 12/19 2216 SS language news blasting in way o/usual EBE, faded into mishmash before I could get an ID. Suspect Barranquilla. (Harrison)
 1566 TUNISIA Sfax L&C in brief peaks w/FF pop mx, man and woman in FF 2216-2234 12/12. Subject to long, deep fades. (DeLo)
 1566 UNID (probably Malta) (on 15667 CH) SS or II talk w/heavy fast SAH 2305 12/14. (Connolly)
 1575 THAILAND VOA Ban Pachi 12/2 1646 woman snner w/talk, Australia, America and Czechoslovakia mentioned; talk not EE-Bengali listed. 1648 band mx then woman again. Fair sig. (Vernon)
 1579 ANTIGUA St. John's VOA taking a walk again off its nominal 1580 (doing a Cuban imitation, hi); big het on GBJ at 2340 on 12/14 and loud, reducing GBJ to het w/EE talk at very low modulation level 0244 12/15. (Connolly)
 1593 WEST GERMANY Langenberg 0431 12/20 light orchestral waltz mx, fair through heavy WQQW alop. (Connolly) 11/28 0614 male w/GG talk. (Vernon)
 1610 ANGUILLA 11/29 2320-2330 good signal, religious pgm-mention of address in Greensboro, NC. ID as "stay tuned to the Caribbean Seacon in Anguilla, where we have a message for everyone". (Harrison)

And I finished the whole thing....

Mark Connolly-Billerica, Ma.	HQ180A, MW1 loop, cer radio
Marc DeLorenzo-Sudbury, Ma.	HQ100, SM2
Richard Harrison-DX'ing from Ocean Grove, NJ	Grundig Satellite 3400, SM2
Bruce Portzer-Seattle, Wa.	HQ180A, L' loop
Mike Stonebridge-Fox Creek, Alta.	R7, 40" loop
Bill Townshend-Washington DC	ICF5W
Brian Vernon-Elsa, Yukon Terr.	FRG7000, DX300, DX160, 5 Beverages

Misc: 1160 CUBA 0440 12/20 EE program, talk about winners of Commie film festival; strongly hatted by Franca-1161. (Connolly)

From Charlie Taylor: Bermuda 1450 proposed calls were ZFW but owner says they will be different. (ZFB per Ernie's log-CH) Power is 1 kw, located at Naval Air Station Annex, Southampton. Studio is on Church Street in Hamilton. Format light c&w, owned by St. George's Broadcasting, phone 809-295-1450.

A Ernie Cooper varie: HJAZ 1160 calle 29 no. 3-72, apartado aereo 148, Monteris signed by Gerente Maria Eugenia Parah E.

Most DXers are aware that a phasing unit is used to obtain nulls by combining the signals from one longwire aerial with those from another longwire, usually of similar length. As the phase relationship between the signals on each wire is adjusted, unwanted stations can be reduced in strength to yield subdominant stations of greater DX interest. Phasing, therefore, serves an overall purpose similar to that of looping.

A phasing unit works very well with Beverages (two wires of at least 1000'/305m) producing nulls even of high-angle skip difficult to handle with a loop. Nulls with a phased system may be unidirectional in some cases, providing the ability to cancel unwanted signals from the opposite direction as a desired station. Wires significantly shorter than 1000' can often be phased with fair results on short & medium skip signal rejection and with good to excellent nulls of groundwave & low-angle skip. When a good receiver is used, a pair of 100'/30.5 m wires can generally be phased to yield acceptable-strength DX catches after a dominant is nulled. Of course, the shorter wires require an input-tuning scheme different from that of the conventional phasing unit designed to tune Beverages only. My recent article, "Phasing Unit Design Modifications" (DX News 25 OCT '81 & DX Monitor 24 OCT '81), addresses this problem and puts forth the "flexible LC module" concept as a solution.

Having extended the usefulness of the phasing unit concept to the point that good performance with paired 100'/30.5 m longwires is possible, the next step is to achieve nulling with much shorter wires. Tests with the phasing unit indicate that strong locals may be nulled deeply with wires as short as 16'/5 m. It should be noted that, as the lead-in to the shack may be a quarter of the length of the two 16' shortwires, slight movements of the lead-ins or of any metallic objects near them can affect null stability. Wires can be peaked as a pre-requisite to nulling, if the flexible LC module concept is incorporated into the phasing unit.

As we get into phasing shorter wires, the ability to null is not the factor of limitation; rather, the low signal levels encountered with such short wires become the predominant problem. Typically, the "peet stations" you are trying to null are themselves only 30 dB or so over the receiver noise floor when a pair of 16'/5 m shortwires are being used. A desired station 35 dB under the peet (5 dB under the noise) is still out of the picture, even if you can null the peet 50 dB. That desired station would have been an easy catch on phased wires of significantly greater length. So the problem here, quite simply, is system gain.

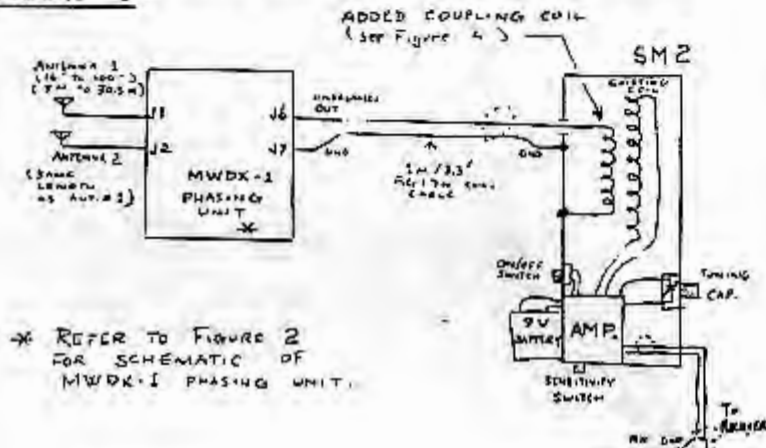
To make phased shortwires part of a truly viable DXing system, amplification is necessary. This amplification could be of a broad-banded nature, but a superior approach is the use of a tuned amplifier. The extra selectivity of a tuned amplifier acting upon the already-tuned phasing unit output gives good rejection of the spurious responses normally caused by receiver overloading.

The advantages of an amplified phased shortwire system to the DXer living in an apartment complex or in a trailer park should be obvious: in either situation a "stand-alone" indoor loop, shielded by steel from the outside, is a mediocre performer at best (pressed up against a window) and totally useless at its worst. In such living situations, outdoor space for wire aerials is severely limited; in an urban high-rise apartment building, a CB-type whip stuck out a window or on a balcony may be the only possible outdoor antenna. (Although 16'/5 m has been mentioned as a low limit on aerial length, two car radio whips could possibly be phased sufficiently to allow respectable domestic DXing above 900 kHz.)

At this point, the focus of this article turns to methods to implement the amplified phased shortwires concept. The amplification scheme used here is as simple as I could make it: the basic amplifying ingredient is the VORSESTER Electronics SM2 active ferrite loop modified in a very minor way. The SM2 thus modified can also be used as a simple shortwire tuner/booster. The modification to be made does not detract in any way from the performance of the SM2 as a "stand-alone" loop antenna.

A block diagram of the amplified phased shortwires system is shown in Figure 1:

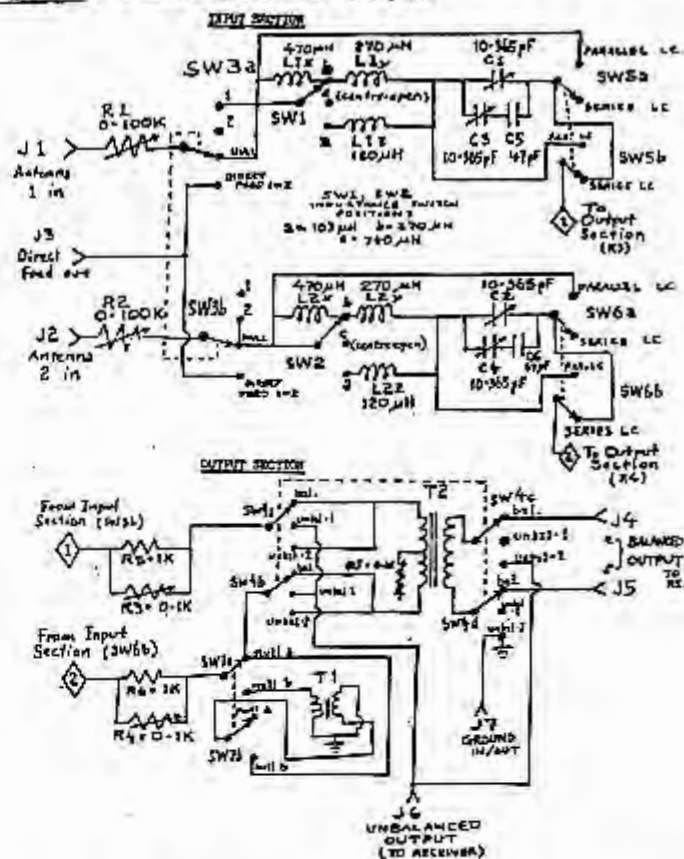
FIGURE 1



* REFER TO FIGURE 2 FOR SCHEMATIC OF MWDX-1 PHASING UNIT.

The phasing unit used, dubbed the MWDX-1, has features designed specifically with amplified phased shortwires in mind. This unit has the schematic shown in Figure 2.

FIGURE 2: Schematic Diagram of "MWDX-1" Phasing Unit



Construction of this unit was detailed in my article "Phasing Unit Construction & Use" (DX News - 23 NOV 1981).

The phasing unit can pass its output (the desired station signal left after eliminating a peet by phasing 2 wires against each other) to the coupling coil on the SM2. The main coil of the SM2 receives this signal and passes it to the amplifier. If the phasing unit output had been connected directly to the receiver, a desired station's signal may have been in the noise after nulling the peet. By using the SM2 as an RF amp., a sufficient level of wanted-station signal may now be heard, even though very short wires are being phased. The necessary manipulations of the phasing unit controls & the SM2 controls must be done in a particular sequence; these methods will be outlined later in this article.

There is another possible phasing scheme: that of using the SM2's own pickup mixed with the output of the phasing unit. One longwire is acted on by the phasing unit to alter its phase relationship to the SM2's own signal. This method is similar to other loop versus longwire systems. The following articles on this subject should be consulted:

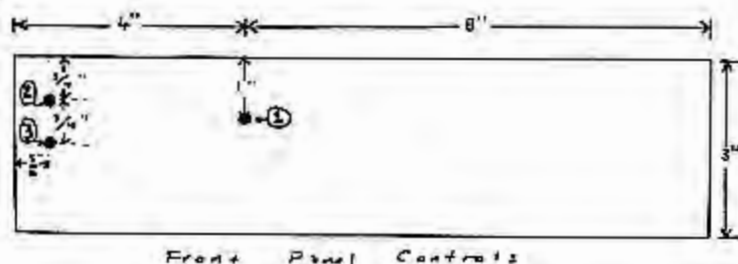
ISCA-1	R. F. Schatz	IRCA reprint A5, NRC reprint A20
ISCA-2	R. F. Schatz	" " " " A18, " " " " A19
ISCA comments	G. P. Nelson	" " " " A6
Using 2 Antennas to Generate Asymmetrical Receiving Patterns	Mike Levintow	" " " " A12, NRC reprint A13
A Loop/Longwire Combo	Nick Mall-Patch	" " " " A32
Pattern Controlled Loops, parts I & II	G. P. Nelson	NRC reprint A6

Parts & tools required:

Parts	Tools
(1) 6-32 X 1/2" metal screw	screwdriver (#6)
(1) #6 internal-tooth solder lug	longnose pliers
(1) 6-32 metal hexnut	soldering pencil
(1) #22 insulated hook-up wire	solder
(1) insulated banana jack with mounting hardware	drill with appropriate bits (see following modification procedure)
(1) non-insulated banana jack with mounting hardware	ohmmeter
(1) 1K pot (optional)	Miscellaneous glue or wax

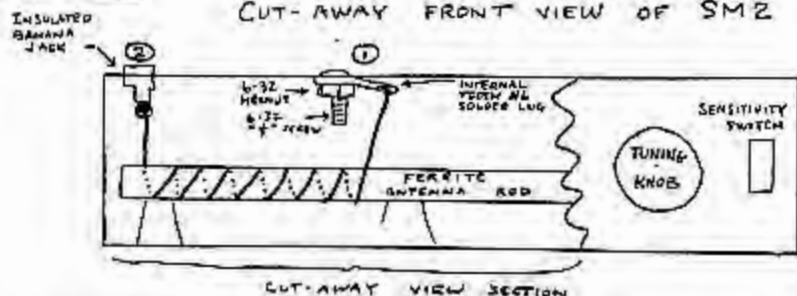
Observe Figure 3, the top view of the SM2 case.

FIGURE 3 TOP VIEW. SM2 CASE



Temporarily remove the battery from the SM2. At the point marked (1), drill a hole for 6-32 hardware by using a #28, 3.6 mm, or 9/64" bit. Prepare a 1'0.3" length of #22 insulated hook-up wire. Strip 1/2" of insulation from one end; solder that end to the eyelet of a #6 internal tooth solder lug. Load a 6-32 X 1/2" screw into the top of the SM2 at hole (1). Use longnose pliers to place the solder lug with attached wire over the screw inside the SM2. Then, place a 6-32 hexnut over the end of the screw inside the SM2. With the pliers, hold the nut in proper alignment while using a screwdriver to tighten the screw. Let the wire hang temporarily. Drill holes (2) & (3) with the appropriate bits for the banana jacks to be used (typically a letter-O, 8.0 mm, or 5/16" bit). Mount an insulated banana jack at hole (2), using manufacturer-supplied hardware. Mount a non-insulated banana jack at hole (3). Verify with an ohmmeter that, at this step in assembly, the jack at (2) measures open-circuit to the SM2 case and that the jack at (3) measures short-circuit (zero ohms) to the SM2 case. Observe Figure 4, the cut-away front view of the SM2 case.

FIGURE 4 CUT-AWAY FRONT VIEW OF SM2



Wind 8 turns of wire, as shown, over the existing coil on the left 4" of the SM2 antenna rod (1 turn per 1/2"). Ensure the shortest possible lead length between the solder lug and the point (1) on the rod where the interior end of the added coupling coil is located. Run the wire from the other end of the coupling coil (left end of the rod) to the insulated banana jack at hole (2), using the shortest length of wire.

Cut off excess wire, strip the end, and solder it to the banana jack (2) tab inside the SM2 case. Put a few drops of wax or Elmer's Glue on the added coupling coil to secure it. Blow all drill shavings, wire snippings, & solder droplets out of the SM2. This completes SM2 modification. Re-install battery. Some may prefer to use a female BNC connector in lieu of the two banana jacks. A further refinement would be the addition of a 0 to 1K pot. between the input jack & the left side of the coupling coil. Such a pot could be easily situated near the front left corner of the top side SM2 case. Ability to adjust the amount of signal to be coupled to the SM2 for amplification may prove advantageous in prevention of overloading in urban areas. In SM2 pickup versus single wire phasing (to be explained later), this pot may aid in fine-tuning of a null. As the (optional) pot changes the impedance imposed across the coupling coil, any time the pot is tweaked, the SM2 tuning capacitor must also be re-adjusted for peak signal.

Use of the SM2 as a wire tuner/amplifier

The SM2 with the foregoing modifications has had its usefulness extended into several new realms. It will still work as a 'stand-alone' loop if there are no external connections to the input jack(s).

If a wire aerial is tied to the coupling coil input jack, the SM2 may be used to tune & amplify the signals on that wire. It is suggested that such peaking be done initially with the SM2 gain switch on its LOW position. Often, where there are potent locals, overloading (& resultant spurs) may occur in the HIGH gain switch position. Shortwave spurs of varying degrees of peakiness may also occur in the HIGH gain position. After peaking the SM2 tuning capacitor in the LOW gain mode, switch to HIGH gain. If the desired signal comes up without the addition of spurs, stay in HIGH gain. Tuning capacitor re-peaking should not be necessary. Having the ability to amplify & to tune a relatively short piece of wire outdoors is of great benefit to the urban apartment dweller: the 'stand-alone' loop inside a steel-frame building is of little use other than getting 40 dB over 89 dbm & TV interference; the 20' shortwire hung out over the balcony does not produce enough signal on non-locals to be of such use. Tuning such a wire decreases the incidence of spurs; amplifying it makes the shortwire equivalent to a much longer aerial.

Using the SM2 to amplify the output of a phasing unit

In addition to direct boosting of low level signals from a shortwire, the modified SM2 loop may be used to amplify the low-level output of a phasing unit having as its two inputs wires much shorter than those commonly thought of as being "phaseable". Wires in the 16'/5 m to 100'/30.5 m length range can indeed be phased to produce nulls of unwanted stations. The peak-tuning of such wires by the phasing unit demands that the phasing unit to be used must have a flexible input LC module design like that of the MWDK-1 unit of Figure 2.

Furthermore, an easy method of disconnecting the aeriels from the input of the phaser is necessary so that the SM2 can be peaked (in a condition of having the impedance of the phasing unit's output section across the coupling coil) without the influence of signals from the wire aeriels. Using the "direct-feed-jack" antenna switch position on the MWDK-1 unit accomplishes this.

Actual tuning procedures will be detailed later in this article.

The connection from the unbalanced output & the ground of the phasing unit to the coupling coil input & chassis ground of the modified SM2 must be done with a short piece of coaxial cable, preferably lightweight, flexible RG174. If unshielded leads were used, feedback and other disagreeable phenomena could occur. Wire aerial leads should be kept at least 2"/61 cm from any part of the SM2 to minimize stray coupling which could decrease nulling efficiency. Flow charts of overall amplified phased shortwire operating methods follow:

("Shortwire" = a wire between 16' and 100')

NULLING SCHEME 1: SM2's own pickup versus one shortwire

Single shortwire is fed to the Antenna 2 input jack (J2) of the MWDK-1 phaser; RG174 coax (3.3'/1 m maximum length) transfers the phasing unit output to the added coupling coil on the SM2, as in Figure 1.

- Align SM2 at desired station, if possible.
- Peak SM2 with shortwire disconnected from phasing circuitry (SW) to direct-feed but with the phasing unit output connected to the coupling coil.
- SW3 to Antenna 2. Peak #2 LC module on phaser.
- Offtune #2 cap. (C2) or #2 R (R2) to yield a null of the unwanted station.
- Null may be enhanced & finalized by slight re-positioning of SM2 loop.

It should be noted that if an SM2 is shielded from external signals (e.g. inside a metal-frame building or vehicle) or if its pickup consists of severe indoor-generated noise (e.g. r. dimers, TVI), it can only be used as an amplifier, not an antenna. In that case, nulling scheme 1 should be abandoned in favour of nulling scheme 2.

NULLING SCHEME 2: SM2 amplifying two phased shortwires

One shortwire aerial to J1 of MWDK-1 phaser, other aerial to J2. RG174 coaxial lead from phasing unit output is routed to the SM2 coupling coil input, as in Figure 1.

- (a) Peak SM2 with wires disconnected from phasing circuitry (SW3 to direct-feed-jack position) but with phasing unit output connected to the coupling coil on the SM2.
 (b) SW3 to Antenna 1. Peak #1 LC module.
 (c) SW3 to Antenna 2. Peak #2 LC module.
 (d) SW3 to null; execute nulling procedure using tuning capacitors & pots on phaser.

The DXer will find that preparing tables of SM2 tuning capacitor settings and of LC module peaking control positions for given length wires will expedite tuning. Typical tables follow:

SM2 Tuning Capacitor Settings, as Adjusted with D - 100 Vernier Knob

f, kHz.	Loading on Coupling coil		phasing unit "unbal-1" position	phasing unit "unbal-2" position	(no wires to phaser)
	no load				
550		96	96	(outside range)	
600		77	77	97	
650		65	65	83	
700		54	54	70	
750		47	47	60	
800		40	40	51	
900		29	29	39	
1000		22	22	30	
1100		16	16	23	
1200		12	12	18	
1300		8	8	13	
1400		5	5	9	
1500		2	2	6	
1600		0	0	4	

O-100 SM2 knob settings

Peak-Yielding LC Module Control Positions (25' wire(s) to phasing unit)

f, kHz.	Control	L switch (SW1 or SW2)	LC switch (SW5 or SW6)	C, main tune (C1 or C2)	
				Dial	Approx. C, pF.
600		270 uH	series	7	200
700		"	"	10	85
850		"	"	16	15
1000		103 uH	"	10	85
1250		"	"	14	30
1500		270 uH	parallel	12	50

These tables are examples only. Variations in SM2's, phasing units, & wire aerials will produce differing results.

System Operation Details

Before thoroughly going into the two nulling modes (1. loop vs. wire, 2. two phased, amplified shortwires), a quick review of the phasing unit controls is in order. Refer to the NWTX-1 schematic, Figure 2. The antenna switch (SW3) selects the aerial to be fed to the phasing unit's tuning section. It can select Antenna 1 only, Antenna 2 only, both antennae (for 2-wire phasing), & neither antenna (wires are tied together and are fed to a separate jack; this is the direct-feed jack mode in which wires are disengaged from phasing circuitry to permit proper SM2 peaking). Antenna 1 signal is adjusted by R1, the main, or coarse, #1 pot) & by R3 (the fine-adjust, or trim, #1 pot). Similarly, Antenna 2 has R2 as its main level pot & R4 as its trim pot. Antenna 1 tuning controls include C1 (its main tuning capacitor), C3 (its fine-tune capacitor or trim capacitor), SW1 (the Ant. #1 inductance-selection switch), and SW5 (the switch to select series or parallel L-C in the #1 LC module). Antenna 2 controls are C2 (main tuning cap.), C4 (fine-tune, or trim, capacitor), SW2 (Ant. #2 inductance switch), and SW6 (#2 LC switch, selecting series or parallel L-C in the #2 LC module). Each LC module has 6 "modes": 3 possible inductance switch positions (103, 270, or 740 uH) times 2 possible LC switch positions (series or parallel). Throughout the following operation runs, the subroutines "PEAK #1 LC", "PEAK #2 LC", "REPEAK #1 LC", and "REPEAK #2 LC" will be called up. These subroutines are broken down to their commands in the following lists:

PEAK #1 LC

SW3 to Antenna 1 - C1 to middle of tuning range.
 Set R1, R3 to zero ohms
 As you set up each of the following modes, run C1 through its range to obtain a peak in signal. Find the LC mode in which tuning C1 yields the strongest sharpest peak. Set up SW1 & SW5 for that mode and ensure that C1 is set for the desired signal peak.

PEAK #2 LC

SW3 to Antenna #2. C4 to middle range.
 Set R2, R4 to zero ohms
 As you set up each of the following modes, run C2 through its range to obtain a peak in signal. Find the LC mode in which tuning C2 yields the best peak. Set up SW2 & SW6 for that mode; set C2 to peaked position.

(continued next page)

PEAK #1 LC (continued)

#1 LC mode	SW1	SW5
1	103 uH	parallel
2	270 "	"
3	740 "	"
4	103 "	series
5	270 "	"
6	740 "	"

PEAK #2 LC (continued)

#2 LC mode	SW2	SW6
1	103 uH	parallel
2	270 "	"
3	740 "	"
4	103 "	series
5	270 "	"
6	740 "	"

As noted on the previous page, preparation of tables of L switch, LC switch, and tuning capacitor peaked settings for specific length wires will speed up the LC peaking process. Also, if you have already peaked one wire (e. g. Antenna 1), you can use the same L switch & LC switch positions for the second LC module if the second wire (e. g. Antenna 2) is of similar length to the first.

Subroutines REPEAK #1 LC, REPEAK #2 LC.

REPEAK #1 LC

SW3 to Antenna 1
 Set R1, R3 to zero ohms
 C3 to middle of range
 Leave SW1 & SW5 in their present positions.
 Adjust C1 for peak signal

REPEAK #2 LC

SW3 to Antenna 2
 Set R2, R4 to zero ohms
 C4 to middle of range
 Leave SW2 & SW6 in their present positions.
 Adjust C2 for peak signal.

Output controls: SW7 selects "null mode" by switching a phase-reversing transformer (T1) into the Antenna 2 line or out of it. Most tuning is done with T1 in-line (null mode b). SW4 selects "unbal-1" (unbalanced operation without the balun), "unbal-2" (unbalanced operation with the balun), & "bal" (balanced/output - not used in the Amplified Phased Shortwires system). R7 is the ground pot from the balun primary centre-taps; it is generally not used except in some fine null touching-up applications. Unless noted otherwise, it is to be set to zero ohms.

Step-by-Step Procedures

In the following procedures, note that the PEAK & REPEAK commands refer to the subroutines explained above. Note that a "DIP" in signal is a well-defined drop in the signal of the unwanted station at a control (pot or capacitor) setting not at the end of that control's range. In other words, the control may be adjusted clockwise and counterclockwise from the minimum signal position; in either case such adjustment increases signal level.

I. Loop versus Single Shortwire

Point loop to favour reception of desired (e. g. TA) station(s), if possible.
 Using RG174 coaxial cable, connect outputs (J6 high, J7 low) to the SM2 coupling coil and case, in accordance with Figure 1.

Connect SM2 output to receiver input.

Connect shortwire aerial to J2 of phaser, the Antenna #2 input Jack.

Set all potentiometers on the phasing unit to zero ohms.

Null switch (SW7) to null mode b (T1 in-line).

Antenna switch (SW3) to direct-feed-jack position (no aerials applied to LC modules).

SW4 to unbal-2

SM2 sensitivity switch on LOW

Turn SM2 on

Adjust the SM2 loop's tuning capacitor for maximum signal on the frequency of interest.

Subroutine "PEAK #2 LC" (SW3 to Antenna 2, etc.)

Off-tune C2 to obtain DIP, as defined earlier. Leave it at the dip-causing position.

If dip does not occur with C2 off-tuning, set SW7 to null mode a & re-tweak C2 for a dip. Play R4, C4 to maximize null of pest. Moving the SM2 slightly may also help.

SM2 sensitivity to HIGH. If spurs occur, go back to LOW. If there are no significant spurious responses, leave the sensitivity switch on HIGH and retweak R4 & C4, if necessary, to finalize the null.

If a good null was not achievable, or if the wanted-station signal level is too low: SM2 sensitivity switch to LOW.

SW7 to null mode b.

Subroutine: "REPEAK #2 LC"

Antenna switch (SW3) to direct-feed-jack position, disengaging shortwire from phaser.

SW4 to unbal-1.

Adjust SM2 tuning capacitor to obtain maximum signal on the frequency of interest.

SW3 to Antenna 2.

Off-tune C2 to obtain dip. Leave it at the dip-causing position. If dip is not found

during off-tuning of C2, set SW7 to null mode a & re-adjust C2 to dip. Play R4 & C4

to maximize null of unwanted station. Slight movement of the SM2 may help in

getting rid of that last vestige of pest station signal, hopefully yielding good DX.

SM2 sensitivity to HIGH. If no spurs arise, leave the sensitivity/gain switch HIGH & touch up R4 & C4, if necessary, to get best null of pest. Of course, if spurs crop up, set the SM2 sensitivity switch back to LOW.

ROLLING STONE MAGAZINE

ROCK REVUE NETWORK

from BRUCE COMTI

Following is a listing of AM radio stations on the Rolling Stone... Network. These stations broadcast daily reports about the latest news and gossip from the rock music world. The complete AM & FM network is listed in the latest issue of Rolling Stone Magazine.

AL: WWSL-1400	Decatur	NJ: WJJZ-1460	Mt. Holly
WVNT-1490	Dothan		
WNPT-1280	Tuscaloosa	NM: KEAD-740	Carlsbad
		KCLV-1240	Clovis
AK: KDLG-670	Dillingham	NY: WATN-1240	Watertown
AR: KZNC-1340	Hot Springs	NC: WISE-1310	Asheville
		WITN-930	Washington
CA: KAMP-1430	El Centro	OH: WIOI-1010	Portsmouth
KRDG-600	Redding		
KGWL-1490	So. Lake Tahoe	OK: KXXD-1300	Tulsa
CA: WAIG-1590	Albany	OR: KFLY-1240	Corvallis
ID: KFXD-580	Boise	PA: WKST-1280	New Castle
KORS-1230	Grangeville		
KLER-950	Orofino	SC: WCCS-1400	Columbia
IN: WTCJ-1230	Tell City	WJMX-970	Florence
IA: XDBQ-1490	Dubuque	WQOK-1440	Greenville
KNNS-620	Sioux City	WKSP-1090	Kingstree
KWLO-1330	Waterloo	WRHI-1340	Rock Hill
		WORD-910	Spartanburg
KY: WTTL-1310	Madisonville	WSSC-1340	Sunter
WVSS-1420	Owensboro	TN: WJZM-1400	Clarksville
ME: WCCU-1240	Lewiston-Auburn	WENK-1240	Union City
WEGP-1390	Presque Isle	TX: KZFP-1310	Amarillo
NE: WASA-1330	Havre de Grace	KQTY-1490	Borger
		KRIG-1410	Odessa-Midland
MI: WAIM-1260	Albion	KDCK-1490	Tyler
WDMJ-1320	Marquette		
WBCM-1440	Saginaw-Bay City	UT: KURA-1450	Moab
MN: WLTG-960	Little Falls	VT: WKVT-1490	Brattleboro
MS: WILP-1490	Tupelo	VA: WFHG-980	Bristol
		WZAM-1110	Norfolk
MT: KCAP-1340	Helena	WA: KWWV-1340	Wenatchee
NE: KICS-1550	Hastings	WV: WKDY-1240	Bluefield

Cuban suggestion

Editor: I read your Nov. 2 article on Radio Mari with interest and dismay. The frequency of 1040 kHz is occupied by a station called Radio Caribe, a 10 kw outlet on the Isle of Pines that puts a whole milliwatt/meter signal into the Florida Keys at high noon. If 1040 "looks the best" for the proposed anti-Castro outlet, as hints the State Department, then perhaps I should invest my money in Radio Havana; at least they know what they're doing. Fidel will definitely jam Mari no matter what, but do we have to help him along?

An excellent frequency for Radio Mari would be 1630 kHz, appropriately directional enough to protect WELM (Boston); at least the station could then be heard in Cuba.

I have just returned from an extensive junket through Havana and central Cuba. With the possible exception of one of the half-million watt facilities near Havana (530 kHz), none of the high-powered facilities listed in the Cuban inventory have been built. There are some 140 AM stations presently on the air in Cuba, most not on the frequencies shown in the inventory. The Cuban basic inventory itself, due on the air by the end of 1982, is so technically bad that the Cubans cannot possibly establish it without heavy revisions; so AM broadcasters may rest somewhat easier. —Ranold F. Schatz, technical consultant, Pompano Beach, Fla.

from BROADCASTING
November 16, 1981

1982 FREQUENCY CHECK LIST

All times are in Eastern Local Time, except checks with underlined times. In those cases, the check is run on standard time throughout the year.

FIRST MONDAY				0020-0030			
0000-0015	*WELI	960	CT T	0030-0045	WLMG	1600	NY T
0020-0030	WNGC	1240	NC T	0045-0100	WVON	1240	VA T
0040-0050	WKCY	1300	VA T		*WGOE	1590	VA M
0100-0115	WCRV	1580	MS R	0100-0115	*XGJB	910	MD T
0115-0125	WKLY	1400	TX T	0105-0120	*XRDX	1260	MO T
0120-0130	WCLC	1230	LA T	0110-0120	KOZA	1230	TX T
0130-0145	XPSA	950	AR T	0120-0135	*WHTI	1340	IL T
0145-0150	KCCR	1240	SD T	0145-0200	*WBCB	1490	PA T
0200-0215	*XPCQ	1260	LA M	0200-0215	KIOX	1340	MO T
0205-0215	*XAMA	1060	TX T	0215-0220	WVNL	910	VA T
0205-0220	WXTV	1100	AZ T	0230-0245	*WVFC	1530	PA TL
0215-0230	*XOUZ	1490	AZ T	0245-0300	KGVC	1490	CO T
0225-0235	*XKAA	1560	SD T	0300-0305	WVFB	1290	PA T
0245-0300	*XGHL	790	MT T	0330-0335	WVFL	560	PA M
0300-0315	*XKLI	1230	OR TU	0415-0430	*WILK	980	PA T
	*XKCL	1240	ID TC	0515-0520	WVFA	1340	PA T
0315-0330	*XVAC	1490	WA TC	0525-0540	WVAV	970	VA T
	*XTCX	1450	MT T	0530-0540	WVNT	690	VA T
				0545-0600	WVNS	1150	PA T
					WVJZ	1460	NJ T
				0600-0615	KIML	1270	WY T

SECOND MONDAY			
0015-0030	*WHHO	1320	NY T
0120-0135	*KVSH	940	NE T
0210-0225	WEXO	1230	CO T
0210-0235	WCDT	1340	TX T
0230-0245	*WPHG	980	VA T
0240-0245	WTCB	990	AL T
0230-0245	*KCLV	1240	WH T
0240-0250	KBYI	1240	MT T
0320-0330	WGOO	1590	NY T
0445-0500	*WUME	1560	IN T
0515-0530	*WVBS	1340	KY T
0530-0545	*WARG	1430	NE T
0545-0600	KZNO	1340	AR T
0645-0700	WIERZ	1460	TX T
	b - NX	in same week as 15th	
	% - NX	after 2nd Sunday	

THIRD MONDAY			
0001-0010	*WRRH	1350	GA T
0015-0030	*WHHO	1320	NY T
0100-0115	*KEDD	1550	KS T
	*KRAV	1050	OK T
	WDLV	1110	TM M
0115-0130	WVNS	1240	GA TC
0130-0145	*WATX	1230	GA T
0230-0240	KIHM	1150	SD T
0245-0300	*KXPO	1340	MD T
0330-0345	KGCV	1480	MT T
0445-0500	*WUKE	1560	IN T
0515-0530	WVBS	1340	KY T
0530-0545	KMUS	1380	OK T
0630-0645	WOKZ	1570	IL T
	b - NX	in same week as 15th	
	% - NX	Monday after 2nd Sunday	

FOURTH MONDAY			
0001-0010	WGCW	1450	GA T
0001-0020	WVBC	1590	PA T
0015-0030	WVMD	1400	NJ T

FIRST TUESDAY			
0000-0015	WLET	1420	GA T
	WHER	1290	MI T
0030-0045	WBLB	1440	CT T
0215-0230	*KIDP	1450	AZ T
0445-0500	WVFC	1240	KY T
0530-0540	WVXI	1480	KY T
0530-0545	*WVLE	1290	KY T
	*WVZJ	1440	KY T
0545-0600	WVKB	1540	KY T
0545-0600	WVBN	1340	KY T
0615-0625	*WVAC	1490	TX T
0630-0645	WVDS	1410	LA T
0645-0655	WVMS	1460	TX T
0650-0700	WVCK	1340	NM T
	f - four minute check	during this period	

SECOND TUESDAY			
0000-0015	*WVRA	1330	VA T
0005-0020	*WVSN	1240	NV T
0020-0025	*WVTD	1380	WV M
0105-0115	KGRD	1230	TX T
0115-0120	KMDK	1080	MD T
	*WVET	1590	MD T
0125-0135	WVFX	1490	VA T
0130-0135	*WVIB	1520	IA T
0135-0145	WVBN	1450	VA T
0200-0215	KTYN	1430	MD T
0625-0635	WVUN	1400	TX T
	% - Tuesday after 2nd Monday		

THIRD TUESDAY			
0000-0015	*WVIG	790	VA T
	*WVRA	1330	VA T
0005-0020	*WVSN	1240	NV T
0015-0030	*WVHT	1510	PA T
	*WVUN	1220	PA T

0020-0025	GWTD	1380	WV	TX
0045-0100	GWVHK	1440	VA	TX
	GWHL	1600	PA	TX
	WVBB	1450	WV	T
0100-0115	*KOLY	1300	SD	T
0115-0120	GWTT	1590	ND	TX
0125-0135	GWPEX	1490	VA	TX
0125-0140	*KERR	1350	NE	T
0135-0145	GWENZ	1450	VA	TX
0200-0215	KMPT	950	WV	T
0300-0315	GWKX	1380	NY	TX
0615-0630	KIDE	1590	AR	T

* - Tuesday after 2nd Monday
- Tuesday after 3rd Monday

FOURTH TUESDAY				
0000-0010	GWKEX	1600	DE	TX
0000-0015	GWPEO	810	VA	TX
	GWSIG	790	VA	TX
0015-0030	GWAYB	1490	VA	TX
	GWHT	1510	PA	TX
	GWJUN	1220	PA	TX
0030-0040	GWHE	1520	PA	TX
0045-0055	GWVA	1490	VA	TX
0045-0100	GWVEX	1440	VA	TX
	GWCOL	1600	PA	TX
0230-0245	KASL	1240	WY	T
0300-0315	GWBNK	1380	NY	TX

* - Tuesday after 3rd Monday
- Tuesday after 4th Monday

FIRST WEDNESDAY				
0000-0030	WFLI	920	MI	T
	WJAZ	960	GA	T
0010-0030	WVMO	1440	GA	T
0100-0110	GWKBC	1540	TX	T
0115-0125	GWKSNY	1450	TX	T
0115-0130	GWKOFY	1070	TX	T
0200-0215	GWKNO	1230	AZ	T
0215-0230	GWRRR	1360	NM	T
0330-0345	WMPF	1360	AL	T
0545-0600	GWSLX	1600	KY	T
	GWTL	1580	KY	T

SECOND WEDNESDAY				
0100-0110	GWCOH	1430	TX	T
0105-0115	GWEDN	1340	TX	T
0110-0120	GWKAN	1280	TX	T
0145-0200	GWHUB	1400	TX	T
	WNEO	1400	MS	T
0215-0220	WPLI	1070	TX	M
0345-0400	GWMOU	1450	TX	T
0600-0615	*KTUL	1560	MO	T

THIRD WEDNESDAY				
0030-0035	GWJDM	1530	NJ	T
0200-0215	KOSC	1510	MO	T
0215-0230	WFLI	1070	TX	M
0230-0245	*KKIT	1340	NM	T

FOURTH WEDNESDAY				
0100-0110	*WMI	1540	IL	T
0200-0215	*WLSM	1270	MS	T
0215-0230	WPLI	1070	TX	M
0645-0700	KYMO	1080	MO	T

FIRST THURSDAY				
0025-0040	*WMT	1390	TX	T
0100-0110	*WCFM	1280	KY	T
0200-0215	*KBKX	1490	OK	T
0545-0555	GWKRL	1490	TX	T
0545-0600	GWRLV	1140	KY	T
	GWLEQ	1570	KY	T
0600-0610	GWICK	1590	TX	T
0610-0620	GWJCH	1410	TX	T
0635-0645	GWANI	1500	TX	T
0645-0650	KYMO	1080	MO	T
0645-0655	GWROB	1510	TX	T

SECOND THURSDAY				
0100-0115	KSON	1270	ND	T
0130-0145	KAYB	1400	KS	T
0145-0200	*KMAV	1520	ND	T
0300-0315	*WBED	1240	GA	T
0630-0640	GWKBL	1450	TX	T
0645-0655	GWPSO	1260	TX	T
0655-0700	GWZER	1560	TX	T

THIRD THURSDAY				
0010-0020	WESH	1490	PA	T
0100-0120	WOPG	940	MS	T
0200-0215	WHII	1570	MS	T
0215-0230	KLRR	1230	CO	T

FOURTH THURSDAY				
0030-0040	GWHPL	610	VA	TX
0045-0055	WJBY	1470	ND	T

* - Thursday after 4th Wed.

FIRST FRIDAY				
0015-0025	GWFOY	1240	FL	T
0100-0115	KQIR	960	MO	T
0130-0145	WRBN	1600	GA	T
0430-0445	GWSON	1230	IN	T
0445-0500	GWMOE	1330	KY	T
0445-0500	GWVIL	1520	IN	T
0500-0515	GWSON	1230	IN	T
0515-0530	GWSNV	1570	VA	T
0530-0545	GWVIL	1520	IN	T
0545-0555	GWKAY	1490	KY	T
	GWHIC	1520	KY	T
0615-0630	EXJK	950	AR	T
0630-0640	GWRRD	1470	TX	T

w - winter months
s - summer months

SECOND FRIDAY				
0000-0015	GWHEG	1360	VA	TX
0005-0010	WNO	610	OT	T
0015-0030	GWRTA	1240	PA	TX
0015-0030	GWSHF	1480	PA	TX
0045-0050	GWRAW	1340	PA	TX

* - Friday after 2nd Thursday

THIRD FRIDAY				
0000-0015	GWHEG	1360	VA	TX
0015-0030	GWRTA	1240	PA	TX
	GWSHF	1480	PA	TX
	GWIVE	1430	VA	TX
0045-0050	GWRAW	1340	PA	TX
0059-0105	GWKAM	1400	VA	TX
0110-0115	GWPTP	1450	VA	TX
	*WBK	1260	GA	T
0115-0130	*WYHI	1570	FL	T
0130-0145	WESJ	1270	AL	T
0145-0150	GWFEQ	1400	PA	TX
0200-0215	KGAX	1330	NM	T
0215-0230	KRTN	1490	NM	T

* - Friday after 2nd Thursday
- Friday after 3rd Thursday

FOURTH FRIDAY				
0000-0005	*WILY	1490	NY	T
0010-0025	WBSY	1600	WV	M
0015-0030	GWIVE	1430	VA	TX
0059-0105	GWKAM	1400	VA	TX
0100-0115	GWPTP	1450	VA	TX
	*KTIQ	1350	OK	T
0145-0150	GWFCO	1400	PA	TX
0145-0200	*KSIW	1450	OK	T
0245-0300	WBCX	920	LA	T
0415-0430	KNOV	550	MT	T

* - Friday after 3rd Thursday

FIRST SATURDAY				
0115-0130	KRLV	1060	NE	T
0200-0215	GWZUL	1380	AZ	T
0210-0225	GWYCA	1490	AZ	T
0215-0230	KBTA	1340	AR	T
0300-0315	WHRV	1550	KY	T
0530-0545	GWFTJ	1590	KY	T
	GWFSR	1470	KY	T
	*WDDY	1420	VA	T
0545-0600	GWVLY	1270	KY	T
	GWDDC	1310	KY	T
	*KMTS	1050	MO	T
0550-0600	*WKSX	580	NO	T

SECOND SATURDAY				
0000-0030	WCKO	1450	ME	T
	GWHLW	1410	KY	TX
	GWKLY	1340	KY	TX
0030-0045	GWVXK	1460	KY	TX
0045-0100	GWKXO	1500	KY	TX

0100-0115	GWKOT	930	KY	TX
	KSOJ	1360	IA	T
	KMLV	1060	MS	T
0200-0215	KDGO	1240	CO	T
0205-0220	KIMT	1450	NM	T
0215-0230	KABL	1410	NE	T

* - Sat. after 2nd Friday

THIRD SATURDAY				
0000-0030	GWHLN	1410	KY	TX
	GWKXY	1340	KY	TX
0030-0045	GWVXK	1460	KY	TX
0045-0100	GWKXO	1500	KY	TX
0100-0115	GWKOT	930	KY	TX
0135-0150	*KONI	1280	NE	T

* - Sat. after 2nd Friday

FOURTH SATURDAY				
0300-0315	KQAL	1230	UT	T

FIRST SUNDAY				
0001-0015	*WEVA	860	VA	T
0605-0615	KLPI	1560	MO	T

SECOND SUNDAY				
0530-0545	GWICK	1250	KY	T
0545-0600	GWMOV	1360	WV	T

THIRD SUNDAY				
(none)				

FOURTH SUNDAY				
0115-0130	KWON	1400	OK	T

NOTES.....

KEY TO SYMBOLS:

- * - Regular check per monitoring service.
 * - Regular check per consistent reception and/or station
 T - Station checks with Tone.
 t - Station checks with dial tone.
- M - Station checks with Music
 O - Station checks with open carrier
 L - check made during last week of month.
 G - Station IDs in Morse Code

Other symbols defined in list.

ACKNOWLEDGEMENTS:

Once again several monitoring companies were kind enough to supply their schedules of regular checks, including Hutton and Southwest. In addition, special thanks go to Dave Schmidt, Ernest R. Cooper, Wayne Reinen, Bill Hardy, Paul Mount, and Mike Stonebridge who also supplied information. O.A.D.X. also supplied their list of checks and other information was gathered from both DXN and DXM.

To make next year's list better and more accurate, send all new information (additions, deletions, changes, etc.) to -

Joseph Fels
150 Robert Place
So. Plainfield, N.J. 07080

IRCA PUBLICATIONS OFFER

The NRC and the IRCA Goodie Factory have agreed to swap member discounts on all merchandise available through both clubs. This means that NRCers can now buy IRCA merchandise at the same price that IRCA members can. Below you will find a complete list.

IRCA Foreign Logs: These handy references contain a complete year of foreign DX as reported to IRCA's World Wide columns. Other features include articles on how to hear and identify stations, QSO propagation, country reports and station lists.

Volumes 3('73-'74), 4('74-'75) and 6('76-'77): \$2.00 each (close out special)
 Volume 5('75-'76) (only four left): \$4.00 (\$4.50 to non-IRCA/NRC members)
 Volume 7('77-'78) and 8('78-'79): \$4.50 (\$5.00 to non-IRCA/NRC members)

Volume 9('79-81) will be out sometime in the late summer of 1981. Price approx \$5-6.

IRCA Almanac: This highly successful IRCA publication is in its second edition. It includes the current frequency check list, sunrise/sunset maps for the US and the world, list of radio network, syndicated and religious program affiliates, station slogans, AM-FM simulcasters, sport programs, utility stations, a glossary of DX terms and articles on AM broadcasting. This handy cross reference to the NRC Domestic Log is a must for the serious QSO DXer. 164 pages and comb bound.

Volume II of the IRCA Almanac is priced at: \$5.50 (\$6.50 to non-IRCA/NRC members)

A DXers Technical Guide: Our latest new publication, this 100 page book includes articles on receiver and antenna theory, receiver reviews and modifications, antenna design and construction, hints on how to build and use receiving accessories, and more.

The Technical Guide is available for: \$4.50 (\$5.00 to non-IRCA/NRC members)

The IRCA offers a list of over 450 pages of reprints of articles from past issues of DX Monitor (our 34 times a year bulletin). Current price is 9¢ per page for first class delivery. Topics covered are antenna design and construction, domestic DX, foreign DX, QSO techniques, radio history, receiver reviews, modification, design and accessories, propagation and other technical topics.

A complete list of reprints can be yours for a SASE.

All the above items can be purchased from: IRCA Goodie Factory
P.O. Box 17088
Seattle, WA 98107

Don't forget to mention that you're an NRC member to be eligible for the discounts. Overseas members add \$1.00 per book. Please allow six weeks for delivery.

IDENTIFYING JAPANESE BROADCAST STATIONS

Some Little-Known Facts Brought to Light

BY CHARLES TAYLOR

It seems to me that North American mediumwave DXers make the process of identifying Japanese broadcast stations unnecessarily difficult, either because they don't know what to expect, or because they don't use the information contained in the WRTH to the maximum extent.

The JO callsign I sometimes wonder why the Japanese Radio Regulatory Bureau assigns callsigns to Japanese stations. At least among commercial broadcast stations, they are used rather infrequently—more infrequently than Latin American callsigns are used. In some instances, the callsign may be announced at sign-on or sign-off only. Among the orientals that assign callsigns, only the Taiwanese use callsign more infrequently, perhaps.

The NHK stations are somewhat different in this respect, both from their Japanese commercial sisters, and from other stations worldwide, in that they do use callsigns, but only at very specific times.

Note that the last letter of the Roman alphabet over here in Japan is Zed, not zee as in the U.S., Canada, and the Philippines.

Why are Japanese callsigns infrequently used? The Japanese Radio Regulatory Bureau hasn't the enforcement and the supervisory workload of, say, the Mexican Dirección General de Telecomunicaciones, and most certainly not that of the FCC of the U.S.A. Consequently, there isn't the need for explicitness of identification here in Japan. The most densely populated mediumwave channels are 1341 and 1026 kHz. Both are populated 26 stations each, of 100 and 50 watts. The most densely populated commercial channel, possessing full-power stations (1 kW and above) is 1098 kHz, with six stations (discounting three 100-W stations, also there). Assuming that NHK, as a governmental agency, can be trusted with the supervision and regulation of its own stations, the aforesaid Bureau really hasn't a burden which would force the need for explicitness such as in the U.S., Canada, or Mexico.

Commercial station identification practices Instead of assigned callsigns, commercial stations identify with (in most cases) pseudo callsigns of three letters, such as ROK, RBC, KBC, KBS, RSK, et al., or with a station name such as Rajio Nihon, Rajio Kansai, et al. This is important to remember: Listen for pseudo-calls or station names rather than callsigns when attempting to identify Japanese commercial stations.

Interestingly, in most cases, these pseudocalls are derived from the abbreviation of a fictitious English-language corporate name, or a variation thereof, which is a translation of the Japanese-language name of the station ownership entity.

Pseudocalls are usually broadcast within a minute or two of the hour and half-hour. Listen carefully: Frequently the pseudocall or station name is referred to briefly or offhandedly. Since the number of commercial stations is limited—even in populous Tokyo there are, NHK stations counted, only five stations (six if FEN-810 is counted)—there is no need for stations to continually bellow and shout some identifier to distinguish themselves from all the other, identical-sounding stations in the same area.

In the way of example: In one two-hour listening period, local JOXR-783 was observed to have identified itself only three times, and in all three cases it was only a brief, off-hand "Rajio Okinawa." Aside from one citation of station name at :45 minutes, the identification came shortly before hourly time pipe. Usually, however, the station identifies in a direct, attention-getting female voice: "R-O-K, Rajio Okinawa desu," shortly before the time pipe. Local JOXR-738 plays a jingle every half-hour with an attention-getting "R-B-C" at the end of the jingle.

Commercial-station pseudocalls are listed in the frequency section of the WRTH, in parenthesis, after the station location. They are not listed in the Japan directory section, although they often can be formulated from the listed English-language translation of the ownership entity name.

NHK identification practices The pseudocall "NHK" is broadcast rather infrequently over either NHK network, and usually right after time pips, as an introduction to news, e.g. "Go-ji no NHK nyuu desu" ("This is the five-o'clock NHK news."). At other times, an emphatically-spoken "N-H-K" is an outcue to local and regional studio stations to cut away from the network for local news, weather, stock, or livestock market reports, et al.

In the matter of local call signs, NHK stations are probably unique. There are certain exact times at which local call sign identification is broadcast by studio stations. By dint of such listening, I have observed the following times for local identifications (UTC):

NHK net 1: 1959:45, 2059:45, 2359:45, 1259:45, and 1502 (the latter immediately after the national anthem)

NHK net 2: 2029:45, 0029:45, 0719:45, 1319:45, and 1459:30 (the latter immediately before time pips and the national anthem)

NHK-FM: 2259:45 (the only one I've observed thusfar)

There is a general formula for local identification, and the two Okinawa (Naha) stations are reasonably typical, so I will cite them:

NHK net 1: "Okinawa dai-ichi hoso desu, J-O-A-P."

NHK net 2: "Okinawa dai-ni hoso desu, J-O-A-D."

NHK-FM: "Okinawa FM hoso desu, J-O-A-D F-M."

A variation omits the location: "N-H-K dai-ichi hoso desu, J-O-A-P." Still another variation: "Tokyo dai-ichi hoso desu; Okinawa J-O-A-P desu."

As a rule, relays, although signed in some cases, do not ID individually. Some of them, especially the 50 and 100-W relays, are doubtlessly unmanned (or unwomaned, hi), and others probably have only a technician or two.

A relay will carry the identification of the station that it relays. Usually, this will be the master NHK1 or NHK2 station in the prefectural capital. A local studio station will broadcast its own, individual ID.

Generally, stations of 500W or less are relays (but not always, the two 500-W NHK stations in Sasebo are studio stations). The 1-kW stations may be either relays or studio stations. I would suppose that anything in excess of 1 kW is a studio station.

I hope that this will help you in your quest for Japanese DX. If you have any questions or comments, I can be reached at my latest published address, and at 939 Eastern Avenue, Indianapolis, Indiana 46201, U.S.A.

-30-

Charles George recently forwarded this network listing to us. It is from the December 5, 1981 edition of "Opera News". Since this network is comprised of over 300 stations, three fourths of them being FM, we are including only the AMers.

550	KOAG	Corvallis, OR	1320	KAWC	Yuma, AZ
570	KGWS	Washington, DC	1330	KPAC	Los Angeles, CA
	WACL	Waycross, GA	1340	WTAN	Clearwater, FL
690	KUSD	Vermillion, SD		WGAI	Athens, GA
	KGGP	Coffeyville, KS		KSKI	Hailey, ID
730	WPIT	Pittsburgh, PA		WBRK	Pittsfield, MA
740	KYME	Boise, ID		WOUB	Athens, OH
780	KCRL	Reno, NV		WCKE	Charleston, SC
790	KXXX	Colby, KS	1350	KMAN	Manhattan, KS
850	KFUD	St. Louis, MO	1370	WALK	Patchogue, NY
880	KWHO	Salt Lake City, UT	1390	WJCD	Seymour, IN
900	KBIP	Fresno, CA		WRIV	Riverhead, NY
	WFLN	Philadelphia, PA	1400	WNEK	Macon, GA
920	WKYD	Andalusia, AL		KTRC	Santa Fe, NM
	WBAA	West Lafayette, IN	1420	WDBP	Delray Beach, FL
930	WSLI	Jackson, MS		WRGG	Columbus, GA
	WITN	Washington, NC	1450	WSPB	Sarasota, FL
	WLBL	Auburndale, WI		KBPS	Portland, OR
940	WIPR	San Juan, PR		KBBS	Buffalo, NY
1080	KSCO	Santa Cruz, CA	1480	WKGC	Panama City, FL
1150	KWKY	Des Moines, IA	1490	WRDC	Cleveland, MS
1170	WGOV	Montgomery, AL		WSVM	Valdese, NC
1230	WSBB	New Smyrna Beach, FL		WMOA	Marietta, OH
1240	WMCX	Killinockett, ME		WKVT	Brattleboro, VT
	WTIP	Charleston, WV	1520	WTLN	Orlando, FL
1250	KBBI	Homer, AK	1550	KKHI	San Francisco, CA
	KUKA	San Antonio, TX		KHBJ	Canyon, TX
	KWSU	Pullman, WA	1560	KPMC	Bakersfield, CA
1270	WCGC	Belmont, NC		WRIN	Rensselaer, IN
1290	WKNE	Keene, NH		WQXR	New York, NY
1300	KFLD	Shreveport, LA	1580	KZIA	Albuquerque, NM

And from Canada:

540	CBK	Regina, SK	920	CBO	Ottawa, ON
640	CBN	St. John's, NF	940	CBM	Montreal, PQ
690	CBV	Vancouver, BC	970	CBZ	Fredericton, NB
740	CBX	Edmonton, AB	1010	CBR	Calgary, AB
	CEL	Toronto, ON	1110	CBD	St. John, NB
800	CBQ	Thunder Bay, ON	1140	CBI	Sydney, NS
860	CBH	Halifax, NS	1550	CBE	Windsor, ON

SUMMARY OF UNREPORTED STATIONS

DON KASKEY

The following chart lists the total number of stations in the USA and Canada and the volume they were last reported as being heard. Thru V49 #9.

COUNTRY	V49	V48	V47	V46	V45	V44	V43	V42	Prior	Total
CANADA	154	141	37	10	12	3	6	2	43	408
U.S.A.	1615	1722	458	188	124	68	69	32	320	4596
TOTAL	1769	1863	495	198	136	71	75	34	363	5004

New stations that have taken the air since the end of Volume 48 are:

AL--1140-WASG, 1500-WQMS, 1450-WDLK
 AK--870-KSKO
 CO--1450-KDRW
 KY--1290-WKLB, 710-WEXC,
 ME--710-WOVI,
 MN--1390-KKON,
 NY--1190-WSCM,
 OR--1400-KLVR
 TX--1110-KTSE
 UT--680-KPAM, 1340-KLVR,
 VT--1340-WVNR,
 VA--1600-WKGG,
 AB--1230-CIYR, 1340-CIOK-1,
 BC--1340-CHNL-2,
 NE--850-CHVO,
 ON--1340-OKRE,

THEY JOINED

Welcome to the following new members. Muse soon and introduce yourselves!!

Stephen J. Gogniat (KB3UH), 19117 Mt. Airey Rd., Brookeville, MD 20833.
 Larry E. Black, 55190 Oak Road, South Bend, IN 46628.
 Leland L. Bahr (W0VT), 10406 West 52nd. Street, Shawnee, KS 66203.
 Dennis Jackson, 7 Nassau Rd., Westport, CT 06880.
 Peter Weeks, 485 Squires St., Fredericton, New Brunswick E3B 3V3 CANADA
 Donald W. Schultz, 52 Orchard St., Terryville, CT 06786.
 Robert B. Rhoads, 8637 East Palo Verde Ave., Scottsdale, AZ 85253. (Rejoins)
 Cliff Reno (WB7DKS), 4302 East Western Star Blvd., Phoenix, AZ 85044. (Rejoins)
 Robert M. Langdon, 6 Sustex Place, Deer Park, NY 11729.
 Tom Decker, P.O. Box 413, Breckenridge, CO 80424.
 Paul Brewer, 4219 Shady Oak Drive, Ooltewah, TN 37363.
 Alan Bingenheimer (WA9RYO), 18660 West Arden Ave., Brookfield, WI 53005.

The following members have recently renewed membership in the MRC: Conrad Durocher, Denis Orlando, Linda Brodsky, Jeff Nieman, Ian Andrew, Brian Alexander, Ken Romstadt, John Oldfield, Craig Fox, Fred Nordquist, Charles Martin, Robert Lazar, Michael Deitz, Bill Whitacre, Dick Cooper, Rolf Blodorn, Steve Bezilla, Lynn Bezilla, William Lamb, Robert Greenlee, Steve Bohac, C.L. Barfield, Gene Nix, Park Barton, David Legler, Ed Kocsan, James Pesek, Henry Stratmann, Larry Wild, Steve Kennedy and James LeDoux. Thanks lady and gents!!!!

Deletions from the last list of unreported stations (V49 #4) are:

AL-5 WQMS-1500(Marshall-TN), WDEK-1450(Francis-TN), WASH-1140(everyone)
 AK-1 KVOK-560 & KSKO-870(both by Vernon-YT)
 AR-8 KAKA-1110(Marshall-TN), KNEY-1280(Forth-IL)
 FL-16 WAYR-550(Townshend-vac SQ)
 GA-18 WZZZ-1310(Marshall-TN)
 ID-7 KEEF-1450(Zehr-NV)
 IA-2 KWAY-1470(Malicky-PA), KMAQ-1320(McIntyre-IA)
 KY-5 WKLB-1290 & WKRC-710(Conover-KY), WKDO-1560-(Levin-KY)
 LA-13 WHNR-690(Palcover-ON),
 ME-2 WVGJ-710(Peterson-ME)
 MN-7 KKGM-1390(Heinen-CO)
 MS-16 WHSY-1230(Ledbetter-MS), WSHG-1540(Fox-PA), WOHJ-1470(Marshall-TN)
 MO-9 KERN-1360(Kramer-IL)
 MT-11 KTXK-1450(Hardy-vac MT)
 NE-4 KICK-1360(Mielcarek-WI)
 NM-8 KARS-860(Starr-vac NM)
 OH-1 WOHI-1350(Bursack-OH)
 OK-8 KADA-1230(Kramer-IL)
 SC-9 WATP-1430(Malicky-PA), WUSW-1350(Marshall-TN)
 SD-4 KOBN-1490(Kramer-IL)
 TN-7 WDTM-1150(Kramer-IL)
 TX-49 KTKK-1110(Schlessinger-TX), KSTB-1430 & KBRZ-1460(Mielcarek-WI)
 VT-0 WVNR-1340(Mitchell-GT)
 VA-3 WKCK-1600(Alexander-PA)
 WA-7 KNOX-1150(Holten-WA), KGDN-630 & KKNW-1510(Nolan-BG)
 WV-9 WELD-1150(Fitzherbert-PA)
 WI-3 WISV-1360(Forth-IL), WRIG-1400(Rieger-WI)
 WY-5 KYCN-1340(Heinen-CO)
 BC-13 CHET-1450, CKOO-1-1490, CKEG-1350 & CKSP-1450(all by Nolan-BG)

DIGITAL READOUT FOR THE TRF

BY CHUCK HUTTON

As we all know, it is perfectly reasonable to spend zillions of hours and dollars trying to improve performance of cheap \$30 radios like the great TRF. In that vein, here's a way to add digital readout to the TRF (and other radios with a 455 KHz high-side injection IF).

There are several companies making frequency display IC's that automatically compensate for the IF frequency and directly output the received frequency. This eliminates the need for a board full of discrete logic to do counting, timing, decoding, latching and driving. The companies and their chips are: (1) National's MN05 MMS430. Can handle offsets (IF's) of 455 KHz, 460 KHz, and 10.7 MHz for FM. The display is 3 1/2 digits at a maximum current of 15 mA per segment, common anode, non-multiplexed. (2) OKI Semiconductor's MSM5523-MSM5528 bunch. Each has different features such as drive (LCD, LED or VF), digits (3 1/2 or 4 1/2), offsets, options such as a complete digital clock on-board, etc. Much mystery surrounds whether any of these are still available, at least in the USA. Even OKI doesn't know-marketing tells me one thing and engineering tells me another. While engineering usually knows what makes it work, marketing knows what they are making their backs off of, so I will believe marketing when they tell me that the entire line is either out of production or unavailable in the USA these days. Joyfully, they do seem to be available in the UK as Ambit International offers them for sale and they are the basis of Ambit's low-cost line of digital displays for receivers. Maybe some California member would like to pester OKI further to find out for sure what the story is? These chips would be really nice-think of having a 4 1/2 digit LCD counter and clock for under \$10! (3) Sanyo's LC7250. This guy is a real winner-drives 15 mA per segment LED's, has a clock and stopwatch, and can (with a resistor) rubber the actual frequency offset so that, for instance, if your TRF IF is really 456 KHz rather than 455 KHz (quite likely) this will automatically be compensated for. Compensation range is nominally + 2.8 KHz. Display is 3 1/2 digits. (4) Toshiba's T1400. Apparently drives a 4 digit display, can handle a full-size LED (maximum current not specified), has a clock, and can accept either high-side or low-side injection on FM.

As detailed above, OKI is shrouded in mystery. Sanyo and Toshiba are even worse. Sanyo sent me data sheets, 95% of which were in Japanese! This was after severe trouble in locating anyone who both spoke English (at their USA sales office!) and was even aware the chip was being made. Toshiba was little better. Both chips are going to be hard to get, at least as of my inquiry in 1980. Perhaps this will change as demand increases for these devices in consumer products with the entire world going digital....

Anyhow, the National chip is easy to obtain (relatively), cheap (cost me about \$7 but I believe single piece price is a few pennies over \$9), and in addition has the advantage of being non-multiplexed and therefore causes little to no interference to the receiver. It is also a bit more flexible, having a choice of 4.1943 MHz crystal operation or a 60 Hz line-derived timebase. The accuracy of the timebase with 60 Hz line operation should be unimpaired with readout to only 1 KHz. Another nice option is that the display may be selected to be active all the time or selected so that the display is active only when a change in frequency is detected or a button is pushed to request a display. When the button is pushed the display will stay illuminated for 3-4 seconds.

A prototype unit was constructed and operation has been entirely satisfactory. The chip was housed on a small (and I mean small) piece of perfboard containing a 40 pin wire-wrap socket for the IC plus the input buffer, crystal, and a few discrete components. There is just enough room to mount all this in the

WOYK 13 1/2 am

National Radio Club
 P. O. Box 32125
 Louisville, KY 40232

November 27, 1981

Sirs:

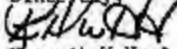
Our radio station changed calls on October 25, 1981, and since then, I have been deluged with DX reports, from all over the northeastern US and from Canada. The whole staff loves it! Knowing that, at any time, they could be received in Clifton, Ontario, or receive a phone call from a listener in Acushnet, Mass, just keeps the dj's a little bit shyer, a little bit more exciting on the air!

I'm curious; did the NRC pick up and publish our call sign change, or is there a contest going on? If the NRC is running a competition for DXers, please let me know the duration, so we can let you know how we fared; furthest DX, etc.

We will attempt to respond as promptly as possible to all DX's, however, we are running 'way behind. Please let your members know that verifications are taking two and three weeks here, also, we do not yet have QSL cards. I have designed a sharp looking card, and as soon as we have them made up, I will see that all reports are QSL'ed.

Keep those cards and letters coming, DXers, while the computerized propagation predictions may be more accurate than the DX, a report from a listener 300 miles off the coverage map is a great way to ask for a raise!

Sincerely,


 Kenneth W. Hart, CE

TRF if you are careful. The space I used is between the circuit board and the left side of the receiver, just above the power transformer. There is some black plastic partly in the way; this plastic is part of the false panel behind the panel in back of the plastic dial plate. With cutters or a soldering iron I removed absolutely as much of this as possible, both to make room for the perfboard and to make routing of the leads to the LED's easier. The LED's were mounted through the black plastic panel by cutting large holes corresponding to the pins present on the devices. Wire-wrap wires were first wrapped and then soldered to each LED pin. The pins and the attached wire-wrap wires were then passed through the holes in the plastic and onward to the perfboard where the rest of the project lives. It would probably be just as easy to cut long vertical slots for each column of pins from the LED's rather than trying to precisely mark and drill holes for each pin. Your choice. In regard to the LED's, a red bezel was needed for the display. The method I used was to strip off the paint from the plastic dial panel and then apply some adhesive red film. The film I used is called "Chartpack" and is used in engineering labs (and drafting I would guess) to create patterns for printed circuit board artwork. Certainly something of more widespread usage is available but I can't think of what it would be. Approximately 3" was used so that the bezel extended from the left side of the plastic dial panel to a location just to the left of the first frequency markings on the panel.

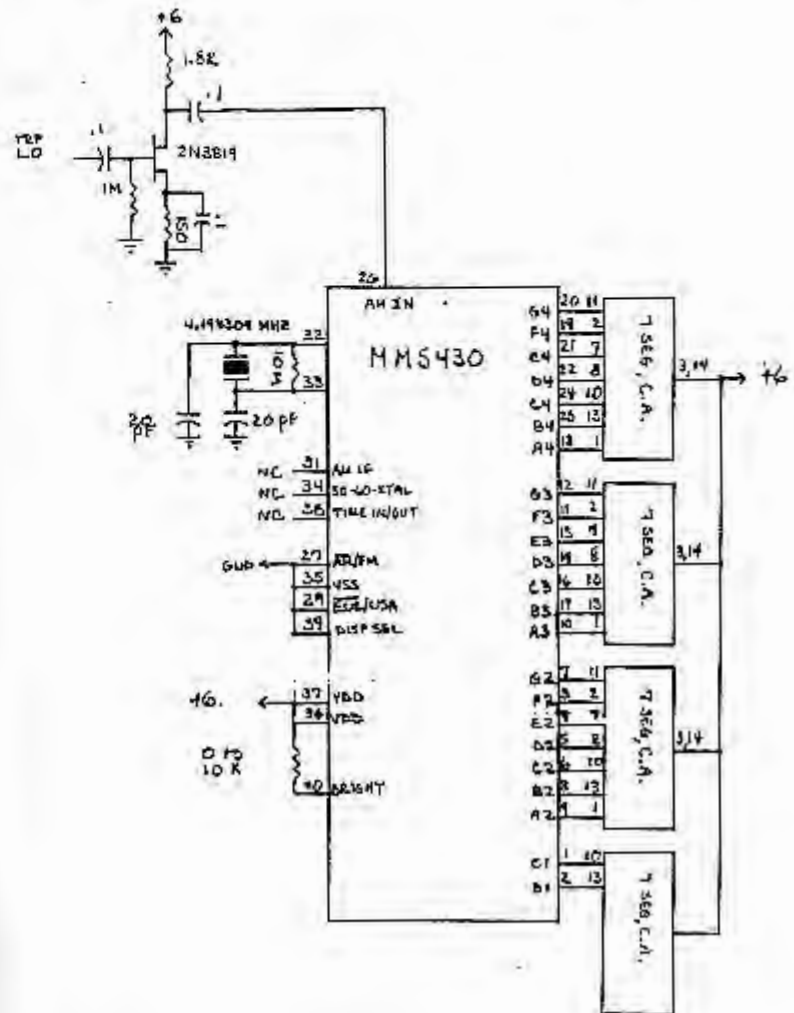
Electrically: an input buffer is present. This reduces loading on the oscillator so that no frequency pull is felt, and also places some isolation between the IC and the TRF, helping to prevent digital noise and crystal oscillator signals from leaking back into the TRF. The voltage gain provided is not necessary in spite of data in National's MOS/LSI book stating that 1-2V are required on the AM input pin. The actual voltage necessary in practice ranged from 30-120 mV depending on supply voltage and frequency. The voltage available from the TRF oscillator ranged from 1.6 to 1.9V. Other units have not had quite this much signal present but I have never seen less than 1.0V. You may wish to try the 5430 without an input buffer; pulling of the oscillator frequency may not be a problem because of the low frequencies being dealt with and the limited accuracy (1 KHz) used. Should you choose 10 KHz resolution (USA mode as explained later) the situation may be totally non-critical. As regards a timebase, I chose to use the crystal option so that the display could be used with the radio operated with batteries. This is a big drain so if you wish to forego a display when DC'ing the crystal can be deleted and 60 Hz used. For a display, I used Monsanto MAN71 common anode 7 segment displays rated at 15 mA per segment maximum. These are common (often advertised by mail order parts houses), cheap (\$1 to \$1.25 each, usually), and small enough at .3 inches to fit easily in the available space. They have more than adequate intensity at currents much lower than 15 mA. When the display brightness is set (see explanation later) LED current can be reduced greatly in order to minimize current draw from the transformer/batteries. It will be difficult to find a smaller display that will draw less current as these are about the smallest discrete 7 segment displays available - smaller units are generally set up for multiplexed operation. The capacitors from each side of the crystal to ground are to pull the crystal exactly on frequency. This is not important here because the precision of the readout is only .05%. It is extremely unlikely that any crystal will be off that far (2 KHz). Therefore, use anything from 5-50 pF that you have around. The actual crystal I used is from CTS Knight and is one of their off-the-shelf frequencies-4.194304 MHz is a standard microprocessor crystal frequency.

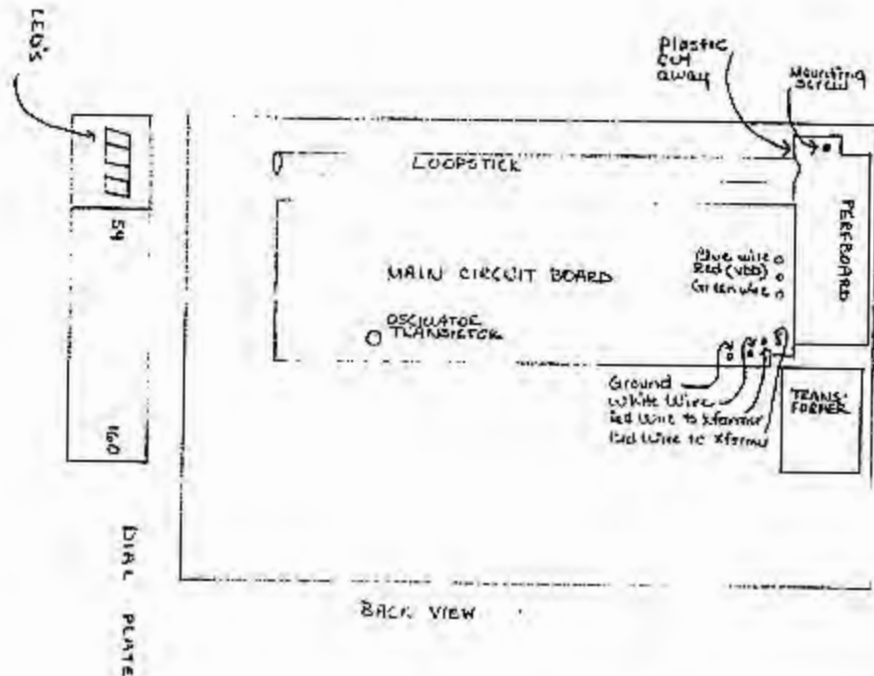
Options: hard grounding pin 39 keeps the display on all the time. Connecting it to VDD allows the display to be activated only whenever the IC senses a change in received frequency or whenever the IC sees pin 39 grounded momentarily. When momentarily grounded, the display stays active for 4 seconds. Pin 29 selects the resolution; ground selects the Europe mode where display is to 1 KHz and VDD selects USA mode where resolution is to 10 KHz. Grounding pin 27 selects AM mode; VDD selects FM mode should you want to add a divide-by-100 prescaler and count FM on a SuperRadio or something. Pin 31 selects the AM

offset. The three offsets are chosen by tying the pin to ground or supply voltage or leaving it floating. Pin 34 selects the time base; for crystal use it is left floating.

Pin 10 (brightness) is the pin that gave me the most trouble. National recommends 0-10K of resistance here to set the display brightness. Even with the maximum 10K the display drew more than enough current to make a readable display running off of DC. However the drain was too heavy for all but the best batteries. I was unable to use garden variety batteries unless they were just bought. They didn't last long either. By increasing the resistance to 15K-20K I was able to get a weakly readable display and decent battery life. Current draw was 110 mA max with 10K (21 segments on, the worst case plus the MM5430 and the TRF) and 75 mA with 15-20K. I think it would be a good idea to select the MM5430 to operate only with a pushbutton for "frequency display" when using batteries.

There it is and I hope you have good luck getting a digital display working on the TRF..... Pictures attached.





THE BACK TO GOD HOUR



444 WEST COLLEGE DRIVE, PALOS HEIGHTS, ILLINOIS 60463 (312) 371-8700 • INTERNATIONAL BROADCAST OF THE CHRISTIAN REFORMED CHURCH

December 23, 1981

G. A. Nitske, Jr.
 Providence Farm
 1783
 Monroeville, NJ 08343

Dear Mr. Nitske,

Thank you for your interest in Radio ZGBC, The Voice of Life, Roseau, Dominica. I'm not certain what information you have received about our radio station, but I'm happy to respond to your specific questions.

Radio ZGBC is owned and operated by Racon International. Racon International is an organization founded in the interests of furthering the ministry of The Back to God Hour, the radio and television ministry of the Christian Reformed Church. Racon is a nonprofit organization and purchased the radio station in order to provide The Back to God Hour unlimited broadcasting opportunities in the Caribbean.

The station operates on a frequency of 1260 kilocycles. It has an effective radiated power of 10,000 watts. With its 400 foot antenna it is omnidirectional, but its strongest beam is to the south as far as Guyana, South America. We're on the air from 5 A.M. to 11 P.M. every day.

After the radio station was acquired in the early part of 1981 we had a disastrous fire in May which totally destroyed the existing transmission facility. Since then the entire station has been rebuilt and is now broadcasting full-time with entirely new equipment and power supply. Whether or not it is possible for you to hear the station in the United States depends upon the ionospheric conditions and, I would assume, the evening skip.

We are now in the process of developing a variety of programs for Radio ZGBC. We want the radio station to have a distinctive role in the life of the Caribbean. We are not committed to back-to-back "traditional religious programs." But we are deeply interested in providing some solid agricultural, mental health, family oriented, and youth programming over the radio station. We welcome your continued interest, response, and possible sponsorship on the station. Feel free to write to me at anytime with further questions or observations.

Sincerely yours, in Christ,

Jerry Vreeman
 Jerry Vreeman
 Associate Minister of Broadcasting

JV/ch



MUSINGS

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

ERNEST R. COOPER
5 ANTHONY STREET
PROVINCETOWN, MA 02657

DON CONTINUES HIS GALVA-NIZING

DON KASKEY - 465 Burnett #1 - San Francisco, CA - 94131
..... On 11/10 KCRG fooled me @ 12:27am but CHLQ-1570 in well @ 12:30 ID o/XERP. WPAD-1560 dominates nights w/C&W w/minor KWGO QRM KJJO-1550 ditto w/WOKJ sometimes slipping through. KLMS-1480 about the only decent signal on 1480 that AM, & WHED-1470 topping the rest @ 1:01. WCEK-1380 IN @ 1:22 and KCLP-1370 MT found o/u QRM with stats NX @ 1:26. CKLC-1380 popping thru mess @ 1:35 w/ID & stop for the next 1/2 hour. WSPD-1370 in KXLP's null @ 1:39 and WTJS-1390 TN weakly noted w/s/off @ 2 u/KCFC. KKOA later took over w/Harry King. An FM speaker @ 2:10 on 1370 soon disappeared before ID but KEIN-1310 MT noted working thru WIPE w/ID @ 2:36 in/out next 1/2 hour. WOOD-1300 MI for ID @ 3am & WIRL-1290 u/KOIL @ 3:09 w/ID. WDBE-1260 IN w/MXL & ID 3:45 in KCEX null. CHSC-1220 ON w/local ads 3:39 over all & ID @ 3:40. CJRS also noted by pulling CHSC w/ID 3:43 & cl mr. KPJZ-1270 TX no surprise w/their MXL 3:44 and KOCG-1150 ON atop @ 3:49 w/tr. KMBZ-980 w/local ads 3:54. XEJ-970 @ 3:55 but usually stop anytime. XEW-900 also atop then. At 5:11/10 KSAC-580 KS found at 4:40 & WKTY u/then w/ID @ 4:45. WLS poking through finally @ 4:59 as were KDKA & WBZ right after 5. WKKQ-1060 MN atop 5:10-5:20, KMHO-1070 MO u/o WAPI in KILR null 5:30-5:35 & KLEIP-1190 TX @ 5:58 u/KKOJ but loud after KKOJ s/off @ 6. KZEE-1260 TX nicely atop 6-6:30 s/off w/KORO-KS noted s/off beneath them at 6:15. KSOK-1280 KS w/SX news atop 6:20-6:30 & KPAC-1250 TX w/C&W & several IDs 6:20-6:30 power/antenna shift, leaving KUKA-TX atop in SS until their 6:44 s/off by P in EE. The XE (XEJ77) atop 950 6:55-7pm, gave ID at 7 but I blew it. The SSS of 11/11 found KWOO hounding KWOW around as early as 5:10 & CJCB doing likewise to KNUJ at 5:40 although KKOW-KS was mixing with them 5:30-5:40. WWJ-950 MI w/stocks @ 5:53 & dominating thru 6pm. KALT-900 TX atop 6:02-6:15 s/off & KIXZ-940 TX devastating KIOA as noted from 6:20 till their power/antenna switch at 6:45. KGKL-960 TX was also found w/readable signal u/WJA @ 6:10-6:20 which is quite rare. KICA-980 NM w/C&W & ID 6:29-6:32 atop & KEIN-1000 NM strong atop @ 6:50. XE's on 980 & 950 dominating around 6:50-6:55 & KAFE-810 NM dug out from beneath KCHO/WGY for their s/off @ 7pm. Later that eve an XE was atop WISW at 10:30 & Cuba o/KPI too. SS also noted on 860 & 890 around 10:45-11pm. (Continued next week -BRC)

PAUL'S LOOKING TO TAPESPOND

PAUL ZEHM - Box 573 - Ely, NV - 89301
..... How is DX? Well, I have done some headway for some time now. Newsies include: 12/9- MNCR-1090, XEG-1050. 12/11- KSTP, KIRV-1510, are they still 500w. They pop up L&C at about EIT. KSTP-1500, I RXed them at Z2T. (What are EIT & E2T, pray tell? -ERC) If possible, could someone send a bumper sticker from KSTP? I'll trade w/a KUZZ sticker. Has any of you out there ever RXed KELY-1230 here in Ely? They are a 250w daytimer and run six days a week, closed on Sunday. Their news is UPI. Some time I'll try to make a tour of the station and give you more details. I would like to contact other DXers out on the East & West Coast and try to tapespond and trade stickers. Does anyone know the silent periods for the following? KNBR-680, XETRA-690, KDMN-720 KPMB-760 KABC-790, KOB-770, KOKR-920, KOLQ-920, KCEB-1020, KRLD-1080, XEPRS-1090. and last but not least XERP-1570? Has the NRC Night Pattern Book been published yet for next year? Well, best be going now before I'll end up with Writer's cramp, hi, & God Bless ye all. Have a nice Christmas!

NIEL SUMS UP FOR 1981

NIEL WOLFISH - 15 Donwoods Drive - Toronto, ON - M4N 2X4 Dec. 15, '81
..... Time to examine DX'ploits for 1981. Projected totals to the end of the year 826/440, as compared to 743/385 on 1/1/81! Best DX catch of the year was probably WRSW-1540 AL or WMLN-1540 AL. Best new verie goes to either WMLN-1540 MI or WLBG-860 SC. Frequency of the year definitely was 1540 with seven new stations logged. Top ten frequencies now shape up as 1550 w/35 heard, 1580 (34), 1490 (27), 1540 (22), 1560 (19), 1600 (18), 1590 (17), 1450 (16), 920 (15), & 1370 (14). By state & province. NY leads with 97 heard & 49 verified, then ON (85/70), PA (83/36), OH (53/26), & MI (38/20). Most neglected frequency has to be 1230, with one QSL out of 13 heard. Quebec is the most neglected state or province, w/ eight out of 37 verified. Not bad for five years' DX - guess. Happy New Year to NRCers GEORGE GREENE, PETE NOLAN, BOB KRAMER, PAUL MOUNT, MIKE CSORHAY, MIKE JEZIORSKI, EARL HIGGINS, DAVE CLARKE, BILL DULMAGE, MARK STRICKERT, ERNIE COOPER & to everyone else who I haven't met, corresponded with, or accidentally left out. Best of luck in 1982.

BON MOT FOR 1982: MISERS ARE NO FUN TO LIVE WITH, BUT THEY MAKE TERRIFIC ANCESTORS!

PAT IS BACK AT THE DIALS AGAIN

Dec. 13, 1981

PAT NASON - Mahomet, IL
..... Hello, everyone! It has been a long time since my name has been in these pages, and an explanation is due. In November 1980 I got into one of those phases where I got "DXed out" for a short period. Usually I get back at the dials within a week or two, but not this time. I began my career as a "semi-retired DXer" at this time, and decided to try the social life for a while. I met my girlfriend in December, which added to my absence from the dials. I joined the highschool wrestling team, & I needed the sleep that I formerly missed as a part of being a DXer. When people asked me about my hobby, I would reply that I didn't DX any more. I "just didn't feel like it" & I always "had other things to do". When Summer came around, my FM DXing stopped also. Somehow I managed to salvage ten new stations, & I logged a couple new AEs as I desperately tried to re-interest myself in AM DXing. However, the feeling just wasn't the same. Lastweek rolled around, & I got an urge to DX. I tried it, and netted three newies in the course of just a couple of hours. Unlike the last attempt, I felt like it again the next night and logged two more. I began to feel the old feelings that DXing used to bring me, and this week I am happy to mention that 12 newies made it to my log. First, I will mention two of my last catches a year ago, as they deserve to be mentioned. KPLN-960 was logged & I now have a verie from them, & perhaps even more astonishing, KDMW-720 arrived here on the same night. Newies recently include: WTD-1560, Anguilla-1630, Lighthouse-1165 (I can't remember where from) (Alao Anguilla, Pat -KRC) KRIG-1410, KRIX-1490, KAGE-1380, KGRM-1410, KCIJ-1380, KBEA-1430, KHB-910, WQIO-1060, WTTN-1580, WTVL-1600, WCHD-1410, KBYE-890 (they're going to have a TEST next week & I plok than up now, what a bummer; hi), WCII-1060 (now I have a matched set of CII's!) & finally KRNK-1460. Station totals are TV-199, FM-387, and most importantly, AM stands at 722 heard. I must s/off now and get ready for the WKDW-900-TEST - it's nice to be back. Season's Greetings from the "Born-Again DXer".

A GUIDING STARR TOUR OF YOUNGSTOWN

JERRY STARR - c/o WSRD Radio - Youngstown, OH - 44505
..... I'm sure many members read with great interest, TOMY FITZGERBERT'S Musings describing the studios & XRs of various stations he's seen and, for all of us who appreciate this info and might use it sometime when we visit the cities covered, I'd like to encourage members to do the same with their own area. I'll start off with the Youngstown-Warren metro by frequency: WKBN-570 is in their own building, a large, imposing structure which also houses their TV station on Youngstown's southside several blocks West of the Middle-thian exit of I-680, their strobe-lit 1500' tower, which also holds WKBN-FM & WSRD is in the rear, the top of which is the highest point in Ohio, XR is on Cella Road in New Middletown, six towers right across the street from WHOT's night transmitter. WPIC-790 is in an old yellow brick building East of Sharon, a single self-supporting tower in the backyard with WYFM atop. WBBW-1240 has its studio/XR in a modern building at the South Avenue exit of I-680, single guyed tower is right next to the freeway with WQOD-FM on top. WHOT-1330 has two separate XR sites, daytime is a six-tower on the studio grounds on Youngstown's East side just a block off Route 422, the night XR is on Cella Road in New Middletown, five in a row. Both WKBN & WHOT XRs can be seen from I-680 just N of the Ohio Turnpike interchange. WFMJ-1390 occupies several floors of a downtown building along with their TV (they're just across the street from Police HQ and right next door to my lawyer's office, if that means anything, hi). XR is a six-tower self-supporting with a large brick building and beautiful landscaping in Boardman Township Park on Route 224 a mile E of the I-680/224 exit. WRO-1440 just moved into new studios on Courthouse Square, a newly renovated portion of downtown Warren w/a six-tower XR just off Route 45 in Lordstown, 3 of Warren. WGBU has studios in a shopping plaza area in Hermitage PA & a three-tower system, one tall tower w/o short one on either side, in the midst of the steel mills between Hubbard & Sharon in Masury, OH, visible to the N of I-80 at the OH/PA border but impossible to drive to unless you know the dirt roads in the area. WGPT-1500 is in the Metropolitan Towers Building off Federal Plaza West right in the middle of downtown Y-town, on the tenth floor I believe, w/XR on the shore of McKelvey Lake E of town on Route 422, four very short towers neither painted nor lit. WMO-1540 studio/SR is just N of the I-680 interchange & of Y-town in Austintown, three short, unlit towers & a small but attractive building down a dirt lane off Webb Rd. It was really in the sticks when built but is now surrounded by a housing project. WOKG-1570 (ex-WICL) is in an old white house, offices downstairs & studios/XR on the second floor just off Route 45 S of Warren w/two towers in the backyard. That is Y-town, how about some members sending in their area's stations?

TWILIGHT TIME IS HIGHLIGHT TIME

WHEELER CONOVER - RR #8 - Box 344B - Manchester, KY - 40962 8112.16
..... Hi de hi de ho! I guess it's about 606-598-3763 after 5:00pm time I checked back into Musings and use up some space, hi. We're out of school today and may be for the next two or three days or so. Right in the middle of semester tests yet! H'mmm. Away with some DX. 11/26- in with WQIZ-810 w/REL, mx, ads, SX, thru WEXG, @ 4:50pm. KSD-550 in 5:32 w/WX, WX, o/w,

(Wheels Conyer) alone. WYMX-1380 in 6:10 w/ID, WX, & e/w on top of the frequency. 11/27- WIXZ-1360 @ 4:35 w/SX, NX, ID as "Pittsburgh's WIXZ", Elvis mx, no sign of WSAI. WIRC-630 @ 4:50 w/WLAP w/ID. WREC-600 5:28 w/Dan Rafter & commentary & NX, oldies. WILL-580 w/local mx, s/off 5:45. Back to Memphis has us WBBQ-560 @ 5:47 w/Harvin Gays mx and Traffic report. All of those were PA times, something I forgot to include. Now, 11/29 has WBDY-1190 in @ 7a, w/ tail end of s/on, about even with WQWQ, then gone. Finally, this morning, WQW-590 at 7:27 w/SX, OCR (Crescense Clekwater Bayaval), so you won't be confused) mx, local ID @ 7:30 into NX, even w/WVLK. All of this with my RF-2800 and LW. Whoo- WBDY was with the TRF & no antenna. Now, anyway, this ought to go to DK-Change, but I would like to ask if anyone out there would have an HQ-129X or something along that line of tube-type receiver (maybe an SP-600 even!) that they would like to sell at a reasonable cost? Write, don't call, as I'm not sure I would be able to buy, & I don't want Mom & Dad to get suspicious, hi. Anything decent besides this RF-2800. Now, I didn't go to Charleston as planned, but went to a chemistry symposium at Cumberland College at Williamsburg that weekend, & I found out that WZZJ is at 522 North Main, and WEXC is in the Jackson Mall. I have to watch Superstation funtimes! 73.

MARC HAS BEEN ON HIS MARK

MARC DeLORENZO - 102 Goodson Hill Road - Sudbury, MA - 01776
 Lots of DX over the past month so I'll get right to it. 11/21- WHWB-1000 VT good, atop w/MX 4:40pm. MN 11/23- WGOE-1590 VA incredibly loud on r/c-mx 12:50-1:05am tune-out; WFTT-1590 MD good, atop w/rr @ 1:15; WSRP-1580 FL weak w/"Surf Country" ID, C&W u/strong GBJ OC 1:19; HJAO-1000 fair, atop w/glow SS vocals, RCN IDs 1:35-1:50 while looking in vain for Brazil; CNID-860 R. BeloJ fair, alone w/all-NX in SS 2:11; CMKG-870 R. Progresso good o/u WWL w/propaganda 2:25; CMAB-880 R. Progresso good u/WCBS OC //870 2:27; KOA-850 CO fair, alone w/telc-talk, frequent IDs 2:38-2:40; WOTO-540 FL poor-fair u/lunk LA w/C&W 2:43-2:46; WSUN-620 FL fair atop jumble w/MX, C&W 3:05 - fixat time in years for this one! R. Ons-700 Jamaica L&C in LW null w/Top Ten hits 3:09-3:13 - best signal over. KRMG-740 OK weak w/ID on BT-OC 3:31. MN 11/30- WDEV-550 VT good, atop 12:04am s/off. 12/3- YVOV-540 R. Perija (pahr-ee-YA) fair in CBEP null w/SS vocals, IDs between each record 12:10-12:20 am; ZIZ-555 St. Kitts very good this AM w/reggae 12:23-12:32 - the DJ was constantly interrupting records to chatter. 12/4- WPCN-940 NC good o/CBM w/C&W 4:49-4:51pm; WLAS-910 NC L&C, way atop w/ada 4:53-4:56 - very rare here; WRED-880 OE good o/u WCB5 w/Beatle tune, APR NX, stocks 4:58-5:04; R. Paradise-825 L&C w/church announcements 5:18; WREC-1550 fair in SS 5:27 to 5:30 EE s/off. MN 12/7 CHMD-1270 R. Keloj fair in jumble w/all NX while looking in vain for WED TEST 1:09-1:16; WHTT-1260 FL "B. Hit" (Heat) fair in SS u/WZZE OC 1:12. 12/11- WSMW-1000 good, o/CPLP/WCFL w/SX, WX 4:58-5pm s/off w/no anthem; WNOX-990 TN good, alone w/rr 5:16; YVQO-640 "Ondas Portenas" good, atop w/BB 7:25pm. 12/12- Tunisia-1566 L&C w/FF pop mx, M & F in FF 5:16-5:34pm. MN 12/14- Tentative WKDM-900 VA fair o/u GRML & others w/TT on TEST 12:10-12:30am; CIDs @ 12:29 were heard but not copied because I was driving home at the time. (He, Marc - MARK CONNELLY has no such trouble! -ERC) 12/15- WHNC-890 good, way o/WLS w/ada 4:46pm; CBX-990 Nfld fair, alone w/MX 4:55; WBSC-1550 SC good in CEE null w/ada 5:09. 12/18- Algeria-891 L&C w/drams in AA 4:41-4:46pm - loud 1kHz het against WENC; WAZE-690 FL good o/u CBP w/ads, traffic report, C&W mx 5:21-5:23; very rare WMAZ-940 GA L&C, monster signal w/CBS NX, local ad. ID 5:27-5:30 - abrupt disappearance @ 5:30 power/pattern change; WCPC-940 MS fair o/u CBM w/rr, ads. 5:33-5:44. That's all for now - time to go out & shovel more snow. May '82 be your best year yet! (No snow over here, Marc - come back! -ERC)

A PAUL FROM PAUL ALERTS 'MOST ALL!

8112.10

PAUL MOUNT - 471 Emerson Avenue - Teaneck, NJ - 07666 WMA: 201-836-1137
 MN 11/30 wasn't hearing much so I went to bed around 1:30am. Call from ERC 3:15 said some AB station on 1310 was making it to Toledo, & some station in FL or GA was testing on 1080 (I wasn't too perceptive just out of bed, hi!) Nothing IDing on 1310, that on the TRF, I had WTIC on the Superadio, w/ WXL-type mx behind. WTIC host was asking what the P.Q. motto was - I happen to have it on my bulletin board, so I called up, being GRM to my own DX personally! I mentioned that a lot of people were listening to 1080 at that time because a station in FL was testing. (GA, actually). The host recalled getting a call from TX once & speculated that KRLD was off. The tape of my call is not very good because of course I was trying to null WTIC & ID the tester. I was on 3:41-3:43 - anyone hear me? Fortunately the tester, WJXI (7), Marlatts, GA didn't ID till 3:46, new by any call letters here. I called DW, BW, JR, from the Tip Traders List. Also four of the five involved w/ERC's call are on the list - ROB KRAMER, KEN ROMSTADT, ERC & me; RAY ARRUDA, I need a number and days from you! I tried for the WGCC TEST on 11/28 around 2 with no luck. They are a regular here days, in the narrow null of WJIT-1480, whose towers are about three miles away in the next town. The TRF is much better than the Superadio in this application. MN 12/7- The WHEO-1270 TEST was one of the better ones I've ever heard. They IDed after almost every record, ran tones, & said hello to DXers who called. I heard mention of Toronto, Ohio, & the names of JEFF FALCONER, BILL COLEMAN, MIKE KNITTER & PAUL MOUNT. (Whom? -ERC)

(Paul Mount, con'd.) They also mentioned using 4,150 watts to pretest a station in Belmont, NC. The best way for me to get a reception report out is to write it as I hear it, which I did w/WHEC. Thanks, MIKE KNITTER, for arranging the TEST; I got his card. I send at least a thank-you card to any station that I hear on w/a DX TEST. I think it's kind of sarcastic to send a thank-you card blindly, or deafly as it were, to a station listed as asked to TEST, in case they didn't actually go on. Anyone wishing to trade airchecks or cassettes, please write. 73.
 TIP TRADERS LIST UPDATE: HARRY HAYES, delete SMs. MIKE KNITTER, add SM,MM,569.

WHN-1050 WAS OFF THANKSGIVING MORNING

GERALD H. BARKOW - 29 Sedgerfield Avenue - Morris Plains, NJ - 07950 12/20/81
 Three ECB veries have made their way in since my last report, v/c WLAD-800, WICY-1490 who returned my report and wrote on it "Verified" & a long v/l from the CR at WCCC-1290 who is looking for reports on their FM outlet. Recent DX: 11/24, very Auroral, so I took a report on WDMA-1250 almost blasting in like a local 8-8:30pm with the usual dominant WARE & WTAE almost non-existent. WDMA is one of those stations that I've heard many times in the past but never bothered to send them a report. Anyway, I'm trying to get everything I can verified on 1250 before local WMTB goes fulltime. 11/25- WCCC-1290 on top w/a very strong signal 6:04-6:30am, IDing as "Your #1 rock-n-roll Radio Station". 11/26- WHN-1050 noted off all AM except for brief periods of OC until 11:45am s/on with mention of technical difficulties. So from 6:40 to 7:06am I heard two separate spots with location given as Cicero, which I thought for sure was CHUM, as they usually dominate 1050 here during WHN's SPs. But, I do not see any town in the Toronto area by that name. However, there is a Cicero within WSEN's primary coverage area, so a tentative is off to WSEN. Then at 7:08am a very weak signal faded in briefly with New Hampshire news & a spot for a retailer in Peterborough, so a tentative WSCV. 12/3- I finally logged WNRX-990 very weakly w/no sign of WZZD, 8:05-8:20pm. 12/5- WENT-1340 atop the CX mess @ 7:15am, then gone. 12/6- WIDE-1400 briefly strong @ 6:05am, then lost after sitting on channel until 7 a.m. 12/15- WPAAD-1490 in & out 7-7:35pm, every time they ran a spot they faded out and when they played music they faded in, so no report sent. 12/19- WKRI-1450 unusually strong 6:30-7am, sounded like they were on day power.

STAN'S DOING SOME SSS TUNING

STAN MORSS - Route 3 - Bradford, MA - 01830
 WPCN-960 fighting it out @ 6:15am & losing to WHYL. I'll try again on this one. No sign of usual CHNS. 12/18 PM- WSBY-960 ex-W300 fighting a losing battle with WHYL but a good report 4:25-4:45 when they must have gone to night pattern - so no sign of WSBY after WHYL s/off @ 4:45 - only WPGL and WEAV, no sign of either before 4:45, but a weak WPIR ID & probably WPCN. 12/20- French on 1500 looping E & N - I wonder if new ones in Gapsa is on? No chance of ID, 4:05pm killing WSNY but out @ 4:15 like a light. 12/2- 560 Mad CPDS alone @ 4:30pm - no WGAN or WHYN - always hoping for a peak from WCKL. Preacher on 1280 @ 4:46pm - I couldn't hold till station break at 5. WMBL-740 ex-WPTT to s/off, 5pm. 12/22- CPCL-620 Timmins covering the frequency @ 4:08 pm with Santa Claus in PP. WKNX-1210 Seglna on top of WCAU - WCAU barely audible, 4:11. WDEX-1530 Lapsar MI for another try at a verie, 4:47-5pm - no answer last year.

TIM LOGGED SEVERAL SOUTHERNERS

TIM DAVISSON - Box 255 - Cuyahoga Falls, OH - 44222 12/22/81
 Happy Holidays! I bought myself a GE Superadio for Christmas. Due to weird CX, I've been unable to judge its performance. From what I've read it's pretty darn good. DX: 12/14- WMBB-1490 Greenville SC w/MYL mx & ID & NX 1:49-2am. WIFA-1490, Rabxville, TN @ 2:05am atop channel briefly. 12/15- WJRB-1430 Madison, TN @ 4:57pm. 12/16- WKPT-1400, Kingsport, TN 11:41pm, heard later ABing with Larry King. 12/21- WCUE-1150 Cuyahoga Falls was ETing with various tones from midnight to 12:55am+, unID-1050 Tting 12:07-12:30am - help! Who was he?? Veries' v/l from WHIZ CJOY KFSB WNTW. v/t- WXXI, WCBC- Totals: 1,305/509. From conversations with stations, such as WCUE, WMBB (see above) etc., the MYL service has been VERY successful. Various members have commented recently on the type of comments members make in Musings. Although we are obviously a DX-oriented club with lots of info (hopefully) to share, the opinions of the membership ARE of interest to me, even if I disagree with their opinion. If we have contents, graveyard totals, etc., I feel those members participating should follow the rules of competitive fairness - i.e., I COULD drive to Los Angeles to log KEJ-930 at NOON, instead of my semi-local WEOL, Elyria, Ohio, but to list that in competitive totals is unfair. If a person DXes once a month, day, hour, year, etc, it's his/her business. But let's list totals fairly gentlemen/ladies! Comments? 73's.

SPECIAL EMPHASIS FOR THE NEXT MUSINGS DEADLINE, JAN. 18, IS ON THOSE WHO DX IN THE WIDE OPEN SPACES, OUT IN THE COUNTRY! THEN ON JAN. 25, WE'LL BE LOOKING TO HEAR FROM THOSE N.R.C.ERS WHO WORK OR WHO HAVE WORKED AT RADIO STATIONS!

MARK IS ROLLING HOME

MARK CONNELLY - 30 William Road - Billerica, MA - 01821 10 Dec. 1981
..... Drive-time DX is being re-initiated to provide regular DXND/
DXWW reports. Recently my reporting level had diminished to one report a
month from my folks' West Yarmouth location. The home in Billerica has a
great amount of powerline noise at times; as Kurf's Law would have it, mulling
the noise generally nulls wanted stations, leaving pests. With the baby due
in Feb. the only DX I may get to do at all may be from the car on the way home
from work. Trips to the Cape will be much less frequent. Upgrading of the
"mobile DX shack" is anticipated: a cassette recorder will be used, more for
voice logbook-keeping rather than for actual recording of received signals.
This will eliminate pencil-screwing in a notebook in the dark, a difficult
feat even in stopped traffic. I can go 30 miles/48 km. home to Billerica from
LTX Westwood via the inland route (Route 128 North) or 37 miles/60km. via the
shore route (128 South to I-93 North thru Boston). The difference in "DX-a-
bility" between the shore route & the inland is like night & day. On the inland
route, hardly a hat is noted against WCAU-1210. On the best parts of the coast
route, Franco-1206 not only hats WCAU, but is sometimes STRONGER, reducing WCAU
to a pitiful net. During AU CX, the shore route provides enhanced reception of
Africa, the Eastern Caribbean, & the N coast of SA from Venezuela Eastward.
Since I've cleaned up a previously-serious ignition-noise problem in the car BX
& since installing a tuning unit for the whip antenna, it is definitely worth
the extra seven miles driving on the homeward commute. Where the traffic is
slowest, on the Central Artery between Boston's South (RR) Station & North Sta-
tion, is where the DX is best. The tall buildings to the W & the sea to the E
create the perfect DX location. Pushbuttons on the car BX are set to 770 (to
access LA's-760, Baker-765, WABC/LA's-770, Spain-774 & ZBVL-780; as well as
general tuning below 850.), 890 (for BGC-882, ZJB-885, WLS/LA's-890, Algeria-
891 & general 850-990 access), 1030 (for local WBZ & access to the valuable
990-1150 region), 1210 (for LA's 1200, Cayman-1205, Franco-1206, WCAU/LA's-1210
BBC & others-1215 & general 1150-1330 access), & 1400 (for FM converter output
-1400, Albania-1395, Guinea-1404 & general 1330-1620 kHz access). FM via the
converter is used for mx/entertainment, AM only for DX, this due to the appal-
ling lack of rack on AM these days. TA frequencies considered "bandleaders",
or propagation beacons, at SSS include 531 549 612 711 738 756 765 774 783 819
891 1062 1206 1349 1395 1404 1422 1467 1521 1557 1566 & 1593. Maritime Cana-
dian openings are checked by observing heavy hitters like CBR540, CBN-640,
CBY-990, St. Pierre-1375. Eastern LA openings are spotted by observing YVOE-
720, SRS-725, ZBVL-780, St. Kitts-825, Antigua-1100 & 1165, & the La hodge-
podge channels like 640, 760, 1070 & 1200. Distant drivetime DX strategies
are always being tried. ?? for now.

BRAD DXES WITHOUT A RADIO!

BRAD CHAPPELL - 49 West Avenue South - Hamilton, ON - L8N 2S2
..... First off is recent DX. On 12/6 @ 7:20pm CJAD-800 in very
well o/EKLM w/mentions of Montreal Steakhouses in FF. Next @ 7:45 was WICC-
600 and shortly after was the MX @ 8 on WMS-590. Going up the dial I found
CHIN-1540 on OC. I was in semi-shock for about 30 seconds until I could fig-
ure out what was going on. It was still on at 9:00. Did anybody further away
hear it? I left the dial until 10:30 when I found CHIN on lower power and re-
laying their FM outlet w/East Indian mx. They left abruptly @ 10:37. On 12/7
@ 3am I noted CHNR off & WIXY was in. Also a crystal-clear ID from B. Relej-
1100 Colombia (not a new one). Recently I used my newest loop and its PET
pre-amp as a radio. I used a diode for a detector & fed it into an audio amp.
I only scanned from 740 to 1050 kHz but the results were impressive: CEL-740,
WABC-770, WBBM-780, WHAS-840, CJBC-860, CHML-900 (overloaded the radio), WBBN-
930, WEBS-970, CFRB-1010, WBZ-1030, CHUM-1050. This was done around 9pm & each
station had no interference from other stations. Since the Day Pattern Book
seems unlikely to happen why can't we visit our local stations and ask for
photocopies of their day patterns? Then it would only be a matter of exchange-
ing them between participating members. Obviously it could never compete with
a day pattern book because it wouldn't be complete. A lot of stations in the
Night Pattern Book are non-directional during the day so they would be easy.
Any afterthoughts?

THE ICE BROUGHT DOWN WARREN'S WIRES

WARREN E. GREENBERG - 145 Cottage Road - West Hoxbury, MA - 02132 Dec. 21, '81
..... The snow storm from several weeks ago took its toll on
my antennas, both LW antennas came down with a heavy coating of ice & I have-
n't had the time to put them back up. So DXing is limited to my TRP. Recent
catches are WELI and CFLS which was doing a number on WEJJ. This year I have
68.4% stations verified. I have reports out to the following stations: WEJJ
CJER WRBC WSRO WNIS CFLS. I had a great time at RAY ARRUDA's get-together
Thanksgiving weekend. I am planning on attending the Convention in LOUISVILLE.
With a few days off from work for Christmas and New Year's I hope to get the
antennas fixed and some DXing done. That's all for now. '73's.

PLEASE DOUBLE SPACE WHEN YOU SEND IN YOUR MUSTINGS & USE A.M. & P.M., E.L.T.:
TRY NOT TO EXCEED 30 LINES OF DX NEWS PRINT. DEADLINES ARE EVERY MONDAY.

JOHN HAS A NEW YEAR'S MOTTO FOR US

JOHN B. MALICKY - 995 Shadycrest Road - Pittsburgh, PA - 15216 12/16/81
..... Hello all. By the time this is written the holidays will
be over. Also, I won't say anything about Pittsburgh teams unless they have
a two-year winning streak. I joined Pitt, Pens, & Steelers, no more! College
BKB on WTAE (Pitt- Bill Hillscrove), WJAS (Duquesne- Ray Goss) & WNSW (Penn St.
net). Hey ERNIE, maybe those LX stations on 11/17 were KXLR-1150 (as he
failed to mention them until 12/7) & WLAP-630 (which I couldn't find in any
DX NEWS); as a Celtics fan, where are they? (Lexington, KY -ERC) I tried
WBZ, their station last year, & WITS, but nothing, finally, rushing to mail the
previous Muse (I hope it wasn't too sloppy), won't happen again. This week's
veries are from: w/l- WEST-1400, WKWF-1600, CROY-1510. WAHT, WGLX, WKLP; v/f-
WCTC-1450 & WASG. I heard WHEO & WKDW TESTs although fair signals w/severe
interference, letters mailed & I anso sent for WRTB. Now for every member's
New Year's resolution: "Airwaves, the final frontier, these are the voyages of
the starship NRC. Its endless mission, to seek out strange new AM stations,
to explore new possibilities (keep the DX hobby alive), to boldly go where no
other DXer has gone before!!" Now to DX (as listed in previous DDXD), from
12/3 to 12/16. On 12/3, I caught a good WELA-1570 for a few minutes before
WPLN splash s/on @ 6:37, on the W. Carolina NK Net. Then, the best evening DX
in quite a while, first brief WLBA-1130 good s/off @ 5:15; WENR-1090 good s/off
& 5:32 (announcer: Mike Anderson), unID Kentuckian-1130 s/off @ 5:44; KXLR-
1150 best heard w/afternoon NX @ 6pm, & the pick of the month, KHYM-1060 very
good w/10,000w o/EKW from 6:08C6:15 s/off. "The East Texas Gospel Chant in
Gilmer" 12/4, WGUN-1010 very good TT @ 12:32am. 12/5, s/off for WRTY-1090
fair @ 5:15 & WKNG-1060 fair @ 5:30 in Tallahassee, GA. KPAB-1110 good @ 5:20
w/MOR nulling WBT, first time heard in Winter months. On 12/6 AM, KSL-1160
good @ 2:22 w/WBA BKB Utah Jazz & Hot Rod Hundley. PM, WSOQ-930 & WMAZ-940
fair w/Mutual Falcons PB net @ 5:05. On MM 12/7, WHEO-TEST, WHEO-1240 (unID)
good w/CBS NX & NYL @ 3:06 & WWTG-1280 fair w/rr, both fading quickly. CX
worsening, too much cloud cover, Canadians dominating (week of 12/7) but these
trickled in: 12/7- WOKX-920 very good nulling WMMN w/Steve York & rr @ 5:10.
12/9- unID Alabaman-1380 good with mentions of businesses in Boyd, AL; KATZ-
1600 very good for eight minutes w/Cary Starr & Terry Houston on Sun, 12/10,
good copy for eight minutes on WBCU-870 @ 5:40 o/u WWL w/"Evening Report".
12/14- WEDW-TEST & WVKO-1580 TT @ 4:04. Finally, 12/16, call change WKKK-1600
for a 15 second s/off @ 5:15 & WACK-1380 (as I'm typing this) excellent w/Dr.
Peelgood's Dance Party @ 7. Note: National Black Net w/Bob Long (night-talk)
heard on WOKJ-1590, WWRB-1600, & WAOK. Totals: 774, more soon. '73's.

TONY'S MOVING TO THE NYC AREA

TONY FITZHERBERT - 116 Devon Road - Chalfont, PA - 18914 12/21/81
..... Hi. Time for my second anniversary as a DXer Muse. Since
1/1/80, with the DX-160, I've logged 562 stations, sent out 419 reports, and
have 306 veries - it's been fun! Of course, most of you can easily humble
these totals - but it's still a most enjoyable hobby here, although my loving
frau thinks I'm nuts! Verie return rate as of today is 73%. I'm happy to
note that five NRCers have signed veries for me: DAVE SCHMIDT, JERRY STARR,
AL RESNICK, JOHN BOWKER, & CHRIS LUCAS - again, thank you, fellows! Best fre-
quencies: 1150 with 19 heard, 1380 with 18 heard, and 1600 with 15 heard.
Closest verified: WING, WCHE, & WEST. Closest unheard: WERA-1590, WKHB-1070,
& WNNJ-1000. Worst frequency - 970 with six who never answered. Furthest
stations veried: WQAL, KSL (No, I have not heard the WC yet!). First verie,
on 1/7/80, from WSAY-1370. Shortest reports producing veries went to WMBD-
1470 (two minutes) & WCCR-1550 (two minutes). Most notorious non-verifiers
are WNSW-970 with three reports & a PP/c, & my favorites, CHOO-1390 w/three re-
ports & a request for info so I could do a station profile on 'em, hi! Most
complete veries - lots of 'em but WEDT, WCHE, WCCR, WING, WLS, & a host of Can-
adians stand out in my mind. I do not use an external aerial, but was going
to put up a 200'+ LW for my Supradio - but I am being transferred to our NYC
computer line, so DX will be somewhat less until we relocate. Other notes:
returning from visiting relatives in Beantown, via Route 84, I pulled off in
Farmington, CT to look at WRCQ-WRCH facility - nice brick studio building,
with a five tower array in "Radio Park" in a swamp, high on a plateau over-
looking Farmington, Route 84, and the countryside. AM format this week is
old STDs. They've been BFL, and the AM is automated. They've also been T-
40, and OLD ROK. PM, I believe, is BFL. (True -ERC)(They're tough to verify,
Tony, do you have a likely v/s? -ERC) Receptions of note last night were
WFUN-970 4:45-4:58pm, WYNN-540 w/DIS and s/off, no SSB, @ 5:07pm-5:13, and
WHIC-540 5:13-5:16pm w/full s/off. Veries are back from WOKX-1350, WOTT-1410
w/CM, WAKQ-1400, CBOP-1250, WATS-960 w/CM, WESA-1400, WVIC-1080, WQXR-1560,
WVIN-1380, WRFD-880, CFLP-1000 w/CM, WINS-"Ten Ten", WYOC-1150 w/CM, WING-1300.
CHNS-960. Ahead - next time - Fairfield County Radio, then Trenton Radio, an
April Fuel Muse, and KPSB. Ahead for all - a happy, healthy blessed 1982!!

NRC'S "BROADCASTERS GUIDE TO DX" COMES IN TWO DELICIOUS FLAVORS - ENGLISH &
SPANISH! EACH IS 4¢ A COPY. WHY NOT GET A COUPLE-HUNDRED OF EACH NOW THAT
THE HOLIDAY MAIL RUSH SEASON IS A THING OF THE PAST? IT'LL HELP GET VERIES!

KERNIT'S HAVING A SUPER SEASON!

KERNIT GEARY - R.D. 4 - Box 321 - Walnutport, PA - 18088 Dec. 20, 1981
..... The fantastic reception conditions of the past two months have been keeping me busy, with 55 reports out since mid-October and 26 veries back (several more are expected). The following are some of the better loggings since my last Musings: 10/14- 4VRD-1080 from 5am s/on to 5:30, and again from 10:44 to 11:20pm. 10/17- WJMQ-1170 from 7:05am s/on to 7:11. 10/20- WEAC-1500 c/WTOP 6:47-6:57pm. 10/22- WNSI-1380 6:50-7:32pm. 10/24- WCRB-1170 7am s/on to 7:15. 10/27- WAUC-1420 5:55-6pm s/off. 10/28- WAJL-1440 1:39-2:28am. 11/1- WASC-1440 on ET 2:17-3:09am. 11/3- WLLB-1290 on f/a 5:31-5:36am. 11/9- WAMJ-1580 5:17-5:30 s/off. 11/11- CJVA-810 c/WXJ 7:02-7:15am. 11/18- WENO-1580 6:35-6:44am s/off. 11/19- WWBC-1510 5:10-5:30pm s/off. WBSM-1540 5:39-5:45 s/off. & WXGR-1190 5:47-5:55pm. 11/22- WKRA-1110 on ET 1:10-1:19am. 11/25- WTJT-950 5:38-5:45pm s/off. 11/28- WGRD-1490-DX TEST 12:48-3:38am, & WLLS-1600 5:26-5:30pm s/off, & WJZA-1600 5:28-5:30 s/off. 11/30- Upd WOLD-1330 on ET 12:34-12:57am w/the famous "Morning Deejay". 12/4- WJXY-1035-4:51pm. 12/8- WIND-1470 6:26-6:33am w/Local WSNAN called, and WTBB-1110 4:22-4:31pm s/off. 12/9- WYXZ-970 7:17-7:29am. 12/10- WCRN-950 4:30-4:45pm s/off. 12/11- WLRV-1380 5:12-5:15pm s/off. 12/14- WKDW-900-DX TEST 12:20-12:28am, WMMN-1550 6:12-6:26am on PSA power, WMDO-1540 "R. Mundo" 4:29-4:36pm w/SB programming, and WJXL-1080 5:18-5:30pm s/off, and 12/17- WBZQ-1550 4:56-5:01 pm s/off. Veries have been received as follows: v/1- CJVA-810, WAOC-1420, WDNW-1590, WGBU-1470, WIND-1470, WJMQ-1170, WJRO-1590, WJZA-1600, WLLB-1290, WKRA-1110, WLLS-1600, WOXK-1350, WTJT-950, WVRK-1440, 4VRD-1080. v/1 + bumper sticker: CPBK-630, WJXY-1050. v/1 + CM + bumper sticker: WPMN-1010, WXGR-1190. v/1 + CM + promo material WABG-1140, WQIQ-1590. v/f- WBBW-1350. v/r- WXTB-1560. v/q- WGBB-1490, Caribbean Bannan-690, & PP/a- WUSS-1490. WJZA-1600, heard 11/28, changed calls to WDBH on 11/30 per verie - new call stands for Donald H. Benk, Jr., President & GM. More details next time. Related best wishes for a Merry Holiday Season & a verie-happy New Year.Good DXto all!

HARRY'S GOT HIS TAPED ID'S STRAIGHTENED OUT

HARRY J. HAYES - 9 Henry Street - Wilkes-Barre, PA - 18702 EST
..... I finally got my taped total on AM tabulated after literally years of trying to get my taped receptions all counted out. This is what happens when you don't list your taped catches as soon as the taps is through. I tape both AM & FM stations and keep both hobbies under the same tape numbering system. I have so far 36 cassette tapes and going through these I found at least five sides that I've forgotten about and thus left blank. Alas, now I will save some tape money. The total comes out to only 474 since December 1973. I started DXing in 1970 and from then until 12/73 had a total of 510 stations. Now heard total stands at 1,072, that's not counting 88 foreign stations. I have not been thoroughly consistent in taping stations, thus accounting in my less than 50% logged. THOMAS CONNATSER had excellent advice about unplugging the AC/battery RXs to prevent fire hazards. I would extend this advice to cover AC-powered SM-2's also and any other RX for that matter especially those with removable 12 volt cords. The very first AC powered SM-2 I had had a defective plug which I since replaced that would get "too hot to touch" on the prongs if plugged in over an hour. The two SM's I've purchased since the first have not had this problem. The hot plug was a Norelco. Having this experience I keep the SM-2 unplugged when not in use. I also think that this goes easier on the components. Not too much DX has been accumulated here in the past week. 12/13- 4:46-4:55pm, WKRA-1460 Ambridge, PA, Christmas mx and many ads for local concerns, w/IDs. TONY PITZNERBER's reception of this earlier this year gave me faith that this was possible here. I've been trying for years for Ambridge with countless SSS vigils on 1460. Reception was good, amazingly. Some of my other frustrating holdouts are WMMN-1260, WNRK-1260, WNR1-1380, WRIB-1220, WSCR-1220, WERA-1590 & WRRH-1590 just to mention a few. Oh, let's not forget WSMN-1590 NE which everyone knows does not exist, hi. Back to DX. WCLG-1300 Morgantown WV anasking in w/loud signal, w/s/off @ 5:02. They abruptly faded after two call IDs, a needed one. WSSJ-1310 Camden NJ w/soul. When I first heard these calls I thought I had something good. On 12/12, yesterday, some EUs were received on Channel 2 on the TV via F2 skip thus attesting to the high sunspot count but low AU activity. Today the AU seems to be returning as the two 1570's in Canada were not in at SSS. Also there was little activity on Ch. 2 this morning. Happy New Year, all.

HERE'S TO YOUR HEALTH!

MARK STRICKERT - Box 931 - San Francisco, CA - 94101-0931 Dec. 21, 1981
..... Good day! First, a little note for THOMAS CONNATSER, re 12/14 Muse. Lyle Dean's "To Your Health" originates from WYFR-103.5 Chicago, where he's the morning MX-man. As you said, he does the spots, mostly having something to do with health care, then customizes them for station, in co-operation usually w/a local hospital. I've heard it on WYFR, WPAD-1560 Paducah KY, WUCA-1270 Gary IN, KIXI-95.7 Seattle, & once on WPOK-1080 Pontiac, IL but I don't know if the latter still carries it. To pass the time, part 1 of the less-than-thrilling N. Oakland daytime bandson. (Astrongs; befoir, everyday, c=week, less likely). 540-KVLPo, 560-KSPDa, 580-KMJc, 610-KPRCa, 680-KNEBa, 710-KFIAb, 740-KCBSa, 810-KGCa, 860-KTRBa, 910-KNEWa, 940-KPRE-c, 960-KABLa,

(Mark Strickert, non'd.) 990-KKISa, 1010-KIRIa, 1050-KOFTb, 1100-KPAXa, 1130-KRDUC, 1140-KRABb, 1150-KPLSc, 1170-KLOKa, 1190-KNABb, 1220-KIHEa, 1260-KYAs, 1280-KJOYc, 1290-KAZAc, 1310-KDIAa, 1350-KSRDb, 1370-KBEEMa, 1400-KREa, 1420-KSTNe, 1430-KMTAs, 1450-KESTa, 1470-KXOAb, 1480-KWUNa, 1490-KTOBb, KBLPe, 1500-KKRXa, 1510-KTINg, 1530-KFBKs, 1550-KKHIA, 1570-KGVBo, 1590-KLIVb, 1600-KUBAc. Geeps, is that all? Can't be a third of the Chicago daytime action.73.

PETER EXPOUNDS ON STATION POLICIES

PETER A. NULAN - 861 East 14th Avenue - Vancouver, BC - V5T 2N5/604-874-6356
..... A brief editorial before proceeding to business. There seems to be a very large contingent of DXers who are unaware that the purpose of operating a radio station is to run a profitable business, rather than catering to the needs of sporadic late-night listeners from outside their service area. Stations adopt all-night network talk shows, satellite programming, pre-packaged automation or consultant packages, etc. (not to mention 24 hour operation, not verifying, and so on) because their primary consideration is the most revenue at the least cost. Package programming is used because it's a fraction of the cost of locally originated material, and a lot of people don't know the difference. (More importantly, a lot of advertisers don't know the difference!) (Sounds like the dictionary definition of GREED to me - ERC) If you want to complain to a station to get them to abandon satellite programming, as an example, DON'T tell them it sounds too much like NYC. Nine out of ten will take that as a compliment! Tell them that radio is a local medium, and you don't see any point in listening to a station that can't supply sufficient local information, WX, or even time checks, and whose announcers are communicating to, rather than with, you. And that you don't see any point in patronizing the station's sponsors, either. Nor do your friends. Then, perhaps, stations will listen. Don't get too hopeful, though. As FM becomes the primary broadcast medium (it already is in larger markets) owners will concentrate more of their efforts on FM outlets and relegate more and more AM stations to cost-afficient, easy-to-maintain jukeboxes or network relays. Sad, but true. Otherwise, I took a trip back to the old homestead in Eugene the last weekend in November. Only radio news of note on AM was a visit to KBCH-1400, ex-1380, they moved to the new frequency instantly upon getting their CP last Spring. Per JOHN REICLER's 12/7 Muse, WLPF is the new 620 calls in Cayce, SC. I believe they were in Mobile once, but no more. WAYNE HEINEN's "best programming in the SW" KFLJ-1380 is in big, big trouble these days. They never bothered to pay any of their SESAC music royalties and are now facing a lawsuit for more than the station is worth. WSER-1550, WHYF-1530, WGOS-1070, KSPD-790, KPAM-1410, & WTJZ-1270 are all facing similar difficulties. The BC government is putting two new TIS's on 1490 in Squamish and "Horseshoe Bay just NW of Vancouver; it's a political response to a rash of deaths on that highway recently. Interesting to note that one of the new CP's for 1180, KBWA-1240, has been dark for two years, and the Williams (AZ) economy is getting worse, not better. Don't look for it soon. Does anyone know if the 890 St. George UT CP is still valid? This one never got off the ground. Out of room - best to all in 1982!

CUBA'S ENGLISH PROPAGANDA'S NOW ON 1160

BILL COLEMAN Jr. - 114 Circle Drive - Rocky Mount, NC - 27801 919-443-3551
..... Hi DXers!! In my last report KA4DAP 12/22/81 I had mentioned that English programming from the Cuban could be heard from midnight to 5am daily on 550 kHz. Seems like they have pulled the plug on that frequency for a new one on 1160 kHz, still with the same sked as the old 550 kHz frequency, midnight to 5 a.m., so try 1160 instead of the former 550. Now I can't hear WJJD or KSL due to the move. ERC called me about it one night; could they must have dropped 550 kHz, to move to 1160 kHz. By the way, my amateur call is KA4DAP, so when you're through the area I monitor 146.88 Raleigh, and 147.12 Rocky Mount, repeaters. Be sure and give a call or come by for a visit. I heard and received verie for WHEO TEST 12/7. I'm still waiting to swap interesting pirate airchecks with anyone, so drop a line soon-est. Remember me on DX tips for the weekends, number is above - cheaper after 11pm! I'm up till 4am usually. 73a.

THIS IS THE SKED FOR THE SPECIAL SUBJECTS FOR MUSINGS COMING UP:

DEADLINE DATE	DX NEWS DATE	
January 18	February 1	DXers in the country, free of typical city interference from locals & appliances
January 25	February 8	NRCers in the Broadcasting Biz.
February 1	February 15	All non-U.S.A. members.
February 8	February 22	All who've verified AK, HI, NWT &/or YT!
February 15	March 1	DXers living in a town with more than one word in its title (example: Little Rock).
February 22	March 8	All Southpaws in the NRC.
March 1	March 15	All who reside in an ocean-touching state, province, or country. Any ocean will do!
March 8	March 22	All N.R.C. Beer Drinkers!

GET IN ON THE FUN - PARTICIPATE IN ANY OF THE ABOVE CATEGORIES WHICH APPLY TO YOU. THE PURPOSE OF THIS IS, OF COURSE, TO ATTRACT NEW MUSERS TO THE LIVING N.R.C.!

ANDY'S HAD A 94% VERIF RETURN

ANDY BUGG - 569 de Caspe - Apt. 202 - Nuna Island, QU - R3E 1J1
..... Here's my first Nuse since March. DX has been very sparse. My only new catch was just after 5pm on 11/14. After a fruitless bandscan on the TRF I left the dial at 1490, curiously wondering who had such a strong signal. What a delight it was to have the topper ID as WRCR FOR FIVE MINUTES of solid copy. I had given up on them in 1961. New veries are WNYX-900 WHJJ-920 WWND-1240 WFR-1450 WJIM-1450 WRCR-1490 WLVQ-1500 WVPC-1530. After 2 1/2 years of on-and-off BCB DX, my totals are 1,501 veries from 1,573 loggings, for a 95.4% return. The 72 unverified include 47 LA's, seven TA's, four defunct U.S. stations and 14 others in the U.S. If I could hear any of the "14 others" again I'm quite confident I could get a veri out of them now. Any domestic station eventually will verify, if you have the patience, persistence and DXing longevity. It took me under three years for the first 1,000 veries, but another 18 years for the next 500. If I hit 2,000 before I croak I'll be pleasantly surprised. The 30% Canadian postal rate in 1982 is merely a proposal. The actual should be announced by the time you read this. Likely the 30% is a scare tactic. The politicians might settle at 25% and huff and puff about saving us 5%. At the last moment I had to cancel out of the N.J. Convention, because of job pressures and moving. However, I took a four day weekend and made it to HAY ARRUDA's GIG on 11/28. It was a nice break, my first NRC session since the 1977 Beantown Convention. I should be at the 1983 Hartford do. By the way, the Business Meeting summary in 9/28 DX NEWS inadvertently stated that the two year planning period for Hartford is a break with the one year tradition. Actually, the 1963 Denver Convention was approved two years in advance. Also the 1964 Buffalo do was decreed early to coincide with a publishing change. I was in Edmonton on June 1 for a job interview. A week later my boss got fired, I called it off, and bought my staff champagne for lunch. 73.

IT'S GOOD TO SEE FRED IN HERE AGAIN

FRED NORDQUIST - 7945 Boyford Road - Clay, NY - 13041 (near Syracuse) EST 12/21/81
..... Equipment: GE-4370 Programmable Clock Radio, Hallidrafters SX-110, NRC Loop. An SM-2 is on order. New loggings since Nov. '81 were: 11/3-WHLS-1450 MI 7:43pm local ad. 11/27-WIBC-1070 IN 5:26pm, GJBK-1290 ON 6:55, r. 11/28-GJCS-1240 ON 7:02pm ID, WJLM-1450 DE 8:15 WX. 11/30-Angullis-690 9:35pm EE g. 1610-Angullis 10:21 EE C&W. No sign of KEND TEST - WPTX/AXEL-1540 both were on L&C during sked TEST. 12/7- ID heard at 1:39 & 1:44am for WHEC-1270 VA TEST w/several TTs heard w/mention of NRC @ 1:44. I thought TEST was sked was for 1-1:30am? (They stayed on till 1:45 or so -ERC) UNID-1610 at 1:57 re-broadcasting WLS-FM-95 - bootleg? 12/14- Unn WKDW-900 VA TEST heard @ 12:06am w/TF & CIDs & location. 12/21-WBCB-1490 IA 12:05am. WOLF-1490 NY & WFLM-1390 NY both off WK. I tried for KBYE-890 TEST @ 1:08 after WLS s/off, no luck - only UNID SS heard. I'm having a tough time trying to relax sent-local WGMF-1500 NY at 75 miles. Are they still on the air? Local changes: WOLF-1490 NY "Wolf Country" C&W (was rock). WSVI-1540 NY (ex-WYRD) //WOLV-105.1, GOS. I just received bumper sticker & copy of TEST program log from WKDW for responding to that TEST. Totals are now at 701 logged, U.S.A. 523 (39 states + D.C.), Canada 102 (nine provinces), foreign 76 (34 political units). Farthest DX: Vinnitza-1546 USSR at 4,321 miles. Have a Happy New Year.

THOMAS'S PROMISES

THOMAS CONNATSER - Route 9 - Box 78 - Sevierville, TN - 37862 12/23/81
..... Greetings, everyone. I trust you all had a Merry Christmas. I haven't had that much time to hit the dials lately, due to the holidays, but now that they're over, I'll be turning the RX on more frequently. Last month's DX summary went to DAVE SCHMIDT. A couple of veries in over the holidays were WANC-NC & WVNA. WANC's GE said he enjoyed the Broadcaster's Guide to DX & complimented me for an excellent report. WVNA sent a package w/GM & RS for AM & FM, information sheet of the AK, & of course, the v/l, again w/a compliment on an excellent report. Return rate right now is running at 50%. As promised, here's how I write a reception report. I use the NRC Report Form, & enclose a copy of Broadcaster's Guide to DX unless the station is conducting a TEST or is quite likely familiar with DXing (e.g., the 50kw clear). I ALWAYS write my report using the station's local time, & all items are timed to the second. In the program details section I list the time, a general description of each item (spot, PSA, ID, song, news, etc.) & then describe the item specifically. In the case of spots, I try to give some details such as address, phone number, what is specifically advertised, etc. In the case of an ID, I mention the EXACT wording & format of it. I list song titles and artists even though they, by themselves, are not basis enough for a veri. When the announcer makes a break I'll make note of it on my report IF it contains some verifiable item such as his name, a station slogan, or a PSA read live. If a newscast is heard, I mention the anchor's name as well as the names of any field reporters featured on the cast. If network cuts are used, I mention that also. If it is a network cast, I list it only as a network NRCast & mention the spots run within it. One thing I always try to do is include a top-of-the-hour ID. Most stations have just one such ID, and its wording & format should be well known to the v/a. I always include a verbatim transcription of that ID. As for the amount of time

(Thomas Connatser, con'd.) covered by my reports, I try to look a station for 30 minutes. However, I WILL send a report for a shorter time if it contains many verifiable items. I also try to start my reports with a spot cluster which is highly verifiable. Finally, before I send the report, I read it and ask myself: As v/a of this station, am I convinced by this report, beyond all reasonable doubt, that the DXer did in fact hear this station at the time stated? If I cannot answer that question an unqualified YES I will not send the report. I hope you have found this discussion interesting, and will put some of my tips to use in your own reports. I see I am running long so I'll say 73 and may 1982 be filled with the best of DX.

WHAT'S BUZZIN', FANS!

ERNEST COOPER - 5 Anthony Street - Provincetown, MA - 02657 617-487-9337 12/29
..... As long as I'm following the above, let me add to what THOMAS CONNATSER has said about reporting for veries. I endorse everything he said above, but I suggest this, also: Be sure to enclose return postage, preferably a self-addressed stamped envelope, and also try to write your letter within 24 hours of your reception and get it quickly into the mail, lest they think you might have been on a "passing through" trip in their vicinity, or that the info might have been sent you by someone in their coverage domain. Two Virginia v/as bring my total to 4,218! WHEC-1270 & WKDW-900, on NRC TESTS. Not such was heard on either, but the periods of tone and the CIDs were definite proof to them that I heard their stations. I have a new problem here - the church on the end of my street has just installed ceiling fans and they are supposed to run "AN-7" and they are emitting a bad buzz which bothers only the BCB. The power company came and traced the source of this interference for me. I thought it was coming from my electric meter, which is on the outside of the house, as when I held my portable up in front of it, the buzz became deafening. The guy told me this was not the source of my trouble, but that the meter & its ground connection was acting as a good antenna. I doubted this, but was convinced when I tried it at meters on other houses in the area with the same result. Also, when I turn on the RX in the church with the fans on, the buzz is tremendous, and when the fans are shut off, the buzz ceases immediately. I hope to have this corrected soon, does anyone know of a remedy? Now to try to pick up on some of the recent DX: Fri. 12/18- Once again WROD-1340 was atop @ 12:38am with ad for a garden club in Holy Hill, & said temperature was going down to 25! Ha - 'twas warmer here on Cape Cod! TTers were on 1430 12:48-12:55, & 550 1:23-1:25 gone. Sat. 12/19- I looked for new CBGA1-540, New Carlisle, PQ on a tip from STAN MORSS, but the PFC was instead CBER, w/FP NY 1-1:03, then s/off-O'Canada. While down there, I decided to null WGAN-560 & see what was there, and lo & behold, 'twas an exciting news, CHCM-560, Marystown, NF. This one relay's VOCH-590 & carries only "590" & "VOCH" IDs! The buzz, plus La Voz de Borota, & a strong TA, Algeria, on 891, prevented me from hearing the KBYE-890 TEST, after WLS s/off @ 1:05am. No sign of KADE-1190 either, but I think this date was wrong - 12/28 was originally shown, no? WCKY, WOWO & WSE were off during much of the AM, but nothing much could be done with that buzz. And we'd like to thank these recent telephoners: PAUL MOUNT, BILL COLEMAN, RAY ARRUDA, DON KAMKEY, BILL EGAN, RON SCHATZ, FRANK MERRILL, GARY LOVEGORN, ROGER GIANNINI, TERRY KLARSK & ED KITKUS, in that order! Please remember my "silent period" of 9pm to 1am, boys! Thank you, & C U N 7.

ROGER GIANNINI says that Radio West is temporarily closed; that they are re-organizing and will re-open in the near future. Anybody have more details, maybe some of you California lads?
ADD TO LARRY KING: WRTH-590 Wood River, IL (A suburb of St. Louis) and DELETE KSD-550. (Giannini). somebody else sent me a couple of LK changes also which seem to have gotten mislaid; repeat??

ATTENTION NRC MEMBERS



IRCA FOREIGN LOG

The Ninth Edition of the IRCA Foreign Log has just been published. This log contains a compilation of the last two years of IRCA's international columns, DX World WIDE-East and West. Tips for hearing, identifying, and verifying foreign stations have been carefully edited for maximum information content in minimum space. Also included is the recently compiled IRCA Mexican List, station listings for China and South Korea, Sunrise/Sunset Times for TA DXers and Great Circle bearings and distances from seven major US cities. Regular features appearing are: complete cross reference of countries and frequencies heard, time conversion chart for all North America and complete list of abbreviations.

The Ninth Edition of the IRCA Foreign Log is now available to NRC members for the discount price of \$5.50 (\$6.50 to non-IRCA/NRC members).

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