



DX NEWS

*the magazine of the
National Radio Club*
— SINCE 1933 —

Volume 47, Number 23

Monday, April 21, 1980.

CPC TESTS

Two late season tests this time. Thanks to the arrangers.

- 5/5 KWOA-730 Worthington, MN 0100-0130 ELT with 1000 watts non-directional.
Mon. Likely to use 1000 Hertz tones, music and frequent IDs. Reports to:
Martin D. Peterson, CE, Box 592, Worthington, MN 56187. Arranged:
Bill Regan, NRC.
- 5/5 KVSH-940 Valentine, NE 0120-???? ELT. Power is 5000 watts. Format
Mon. will be continuous tones and voice IDs. Test length unknown. If
you don't get them here, try Mon. morning after first Sunday morning
of each month. Reports to: Edward Haen, CE, KVSH Radio, Valentine,
NE 69201. Arr: Eric Loy, NRC.

STATIC FROM HQ

Your crew this week consists of Pat Hartlage, Gary Atkins, Dick Truax and David Peters. Not a whole lot of news again this time. Bob Galerstein passed along an AP bulletin from March 20 which indicated Argentina was leading opposition to the 9 kHz plan. While most of the 22 countries present at the Buenos Aires Conference supported the American move to switch from 10 to 9 kHz spacing, a spokesperson for the FCC stated it was almost certain that the decision would be delayed. The Argentine proposal called for more study and would delay the decision one year. Any update available on this?

Inside you'll find more info on the infamous YAD. With a little luck (?), you'll see some LPZ members there. That's Louisville Publishing Zombies for the uninitiated. Also, we expect more info on NRC Los Angeles Convention soon. On the same subject, we'll need to know who is interested in hosting the 1981 gathering of the club. We haven't had a convention in the East since 1975, so you guys are about due!

On hold is the balance of the Pete Taylor African and Asian DX summary, and a brief article by Mark Connelly on Terrain Charts for Propagation Predictions.

One last item which came in today's mail. Todd Hyder received a "Misha the Bear" verification card from R. Moscow via Cuba-600 in 31 days via air by sending his report directly to Moscow's North American Service. The freq. was listed as .60 mHz, card was unsigned and listed target area was simply "North America".

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If you're wondering why Musings is in the middle this time, it's because we're experimenting with the printing again to see if running Musings side-by-side will help readability. Til next time.....73.

LETTERS

PAT HARTLAGE
P.O. BOX 32125
LOUISVILLE, KY 40232

IN THE CREDIT DUE department, we'll acknowledge a postcard from the member responsible for the Humpkler 4NK8 article. Yes, someone did come forth to claim credit. Thanks to member Ray D'Ohh of San Francisco.

GUILTY One of our Pennsylvania members dropped us a line about the St. Patrick's Day issue, the skip week which followed and the April Fuel issue. He wrote: "...suggest the guilty ones be declared hostages and sentenced to listen to the 4NK8 during the entire summer."

PRINTING PROBLEMS continue to plague us. We're more or less permanently tied to the present printer, but will continue to work with them to make the bulletin more readable. Much of the smudginess of late is due to inattentive personnel. They have assured us this will be corrected. Also, the printer tells us that they will soon get a better camera; a move which should add more 'sharpness' to the copy.

MISSING PAGES, ETC. We'll replace missing pages and the like upon request, but we urge that you ask for replacements right away. We have little storage space here and don't keep 'over-run' copies very long. Gary Atkins is the volunteer who handles the request.

LATE CPC TESTS should be phoned to us. Since we are on the non-weekly schedule, notice by letter may not be in time. Please call me at my home number, (502) 491-1789.

MISSED A TRF? You may not have! Member Dick Nelson, 3470 Travis Avenue, Simi Valley, CA 93063, (805) 526-7066, has been able to round up seven TRFs in the Los Angeles area. He'll sell them for the regular price of \$29.95 each, plus \$1.00 for UPS shipping. Free Radio Shack batteries included. On the same subject, special thanks is due to Chuck Hutton for his efforts in obtaining TRFs and modifying them for his fellow members. On top of that, Chuck donated all profit from the venture to the NRC. Thanks Chuck!

NOSTALGIA BUFFS may be interested in a copy of the WDZ-1050, Tuscola, IL program schedule for July 1941. Member Raymond Nemec sent us a copy, and noted that most the programming was live. You can get a copy for an SASE plus one 15¢ stamp; the stamp to help cover photocopy costs.

WHAT GOES WHERE Currently, we're spread out as far as responsibilites go. To help us help you, please direct your correspondence directly to the person concerned. Material for Mothball Memories and Verie Signers go to Ernie Cooper. Items for sale and items wanted should be listed in DXChange and directed to Russ Edmunds, P.O. Box 127, Boonton, NJ 07005. Listings of foreign stations (other than in camera-ready format) go to Chuck Hutton.

VOLUNTEERS NEEDED There are always openings for willing, dependable workers. Right now we need a new editor for the Graveyard Achievements column, and if possible, a person who can type (or better yet, word process) the next edition of the NRC Log. GYA Editor Bill Hale is being transferred to England. His column takes a lot of work and we need someone to handle the 7 listings which he does during the volume year. The Log project has grown too large for John Callarman to handle by himself. He simply does not have the time to do the actual typing. The volunteer(s) who will help John must have access to decent electric typers with carbon ribbon capacity. Pica type is preferred. The project will require typing 200 pages in just a few weeks, so a group effort may be best. Volunteers interested in the GYA should write to me and those interested in the log to John Callarman, 1122 Maple, Mt. Vernon, IL 62864.

ANARC '80 will be held in Irvine, California on the University of California Campus, July 18-20. NRC members in the area will find this a very interesting and worthwhile gathering. For more information, send a #10 SASE to: Convention Chairman, Mr. Stew MacKenzie, 16182 Ballad Lane, Huntington Beach, CA 92649. We will need an NRC member to represent us at ANARC also. Anyone interested please contact me as soon as possible. Thanks.

REVIEWS of equipment and the like are always welcome. However, if the reviewer has any financial interest in the product or the company selling the item, he or she should make that interest known in their article. This will help us avoid questionable reviews or charges of "slanted" data.

CLIPS are always welcome. Don't get discouraged however, since lately we've not used too many. They are used on a space available basis and in situations where they don't duplicate information printed elsewhere, for example the FCC item on WNYR. We got several WNYR clips but think the subject is covered by the FCC news release. Thanks for the contributions, however.

DOMESTIC
DX DIGEST

DAVE SCHMIDT
42 CHELWYNNE ROAD
CASTLE HILLS
NEW CASTLE, DE 19720

Looks like we've got another good sized column this time. When sending in your items, please type or neatly write them, keep items to one side of the page, times ELT, etc. Here goes it:

SPECIAL

- 940 WGFP MA WEBSTER - 4/1 0758-0830 new station noted here weak all day in RS mentioning "4th day of broadcasting." Light rr format w/emphasis on local and regional programming. Log sez WQFP but fone operator has listing for WGFP. Addr: Box 930, Webster, 01570. (RA-MA) Noted 3/29 by CH-RI.
- 990 WNYR NY ROCHESTER - Per station announcements, switched frequency from 680 on Saturday 4/5, now (or will be shortly) 24 hours. (JB - NY) How about getting some more info on this one, Jerry, haven't seen nothing at all in B'casting on this switch. (DS)
- 1110 WBT NC CHARLOTTE - Now s/off 0100 on SM after AT 40 or similar show. (DY-CT).
- 1440 WREY NJ MILLVILLE - On this call since Mid-Feb., now all Spanish, slogan is "Radio Ray". (SP-NJ) Go get 'em Russ! (DS)
- 1480 WUEZ VA SALEM - Per call to station while on ET 3/26 0030, person mentions getting ready to go fulltime with 5000/250. Aired my call, also. (EB-PA)
- 1550A WQXW NY PIRATE - noted 3/14 0238 airing call from Peterborough, Ont., loud, ID'ing as WQXW and 15-Q. (Sounds like a new idea!). (DY-CT)
- 1620 PRN PIRATE - noted 3/24 0038 w/MoR mx, fair to poor. (WPT-DC)

DX TESTS

- KMNS - Heard by NZ-NE. Not heard by RA-MA, KAZ-NY, MS-MB.
WMLP - Heard by RA-MA, KAZ-NY.
WHOL - Heard by RA-MA. Not heard by JB-NY.
KHYM - Heard by RN-KY, NLM-NM, JWB-PA, RA-MA, NZ-NE, WPT-DC, JF-ON.
KWHO - Not heard by JS-OH, DS-DE, SP-NJ, RA-MA. (Probably not on-DS)
WPIC - Heard by SP-NJ, RA-MA, WPT-DC. Code & TT only, NZ-NE.
KCEE - Not heard by RA-MA. Didn't know (again) DS-DE.

FREQ. CHECKS

- 3rd TUES - WOHN-1440 (JB-NY)
WSIG-790 (DY-CT)
WAHT-1510 (DY-CT)
- 4th MON - WJDY-1470 (JB-NY)
- 4th TUES - WKEN-1600 w/TT (EB-PA)

MIDDAY TO MIDNIGHT

- 540 CBEF ON WINDSOR - 3/23 2000-2005 noted w/FF talk, 2nd time. (EL-IL)
WARO PA CANNONSBURG - 3/22 1818 1st time noted w/faint ID then gone. (GW-PA) I fainted the 1st time I heard them, too. (DS)
- 580 WCHS WV CHARLESTON - 3/22 2245-2250 fantastic signal, rr mx. (EL)
- 590 WKZO MI KALAMAZOO - 3/22 2302-2305 w/CBS nx, ID, o/u WRTH and Cuban. (EL-IL)
- 600 WMT IA CEDAR RAPIDS - 3/22 2309 w/Iowa nx, u/Cuban. (EL-IL)
KSJB ND JAMESTOWN - 3/11 2348 very strong w/many spots then female annn'r w/sports. (JB-NY)
- WICC CT BRIDGEPORT - 3/14 2012-2105 weak u/WIP splatter w/MoR, furniture store spot. (SP-NJ)
- 610 CKYL AB PEACE RIVER - 2233-2307 3/11 w/local hockey, fair, o/u partially nulled CHTM, 2nd time ever heard. (MS-MB)
- WSGN AL BIRMINGHAM - 3/22 2311 w/request show, no WDAF. (EL-IL)

KQEO 92 AM

WXUR AM-FM
BRANDYWINE-MAIN LINE RADIO, INC.
TWO SOUTH AVENUE MEDIA, PENNA. 19063

620 WRJZ TN KNOXVILLE - 3/22 2312 good signal w/rr. (EL-IL)
 630 KXOK MO ST. LOUIS - 3/22 2317 noted w/Cuban nulled. (EL-IL)
 640 CBN NF ST. JOHN'S - 2/12 1740 loud w/talk of Olympics, o/
 Surinam/Guadeloupe growl & SS het. (MC-MA)
 680 WCBM MD BALTIMORE - 3/22 1552 1st time here w/ID "WCBM cares about
 Baltimore & you." (GW-PA) If they cared about me, they'd
 either null this way or be off, a real pest here. (DS)
 730 WFMC NC GOULDSBORO - 3/24 1816 fair for a moment w/wx, ID (LG-KY)
 740 WVCH PA CHESTER - 3/22 1540 excellent w/"The Rest of the Nx,"
 religious nx. Rare bird here. (GW-PA) Shouldn't be, George,
 GM shows your area in the secondary signal! (DS)
 750 WHEB NH PORTSMOUTH - 3/22 1845 Another newie, noted w/s/off. Log
 sez fulltime. Why? Altanta SS? (GW-PA) You got it! (DS)
 WBMD MD BALTIMORE - 3/22 1526 very good w/polka mx & ID. (GW-PA)
 790 WMC TN MEMPHIS - 3/22 2238-2240 fair w/CW mx, o/WTAR, WBBM
 splatter. (EL-IL)
 CKSO ON SUDBURY - 2055 3/14 demolishing WEAN w/rr then ID. (MC-MA)
 800 CHRC PQ QUEBEC CITY - 2/12 1753 dominant w/FF talk. (MC-MA)
 850 WKIX NC RALEIGH - 3/22 1912 Superb signal w/commercial for ½ off
 price of car courtesy of "KIX" (GW-PA)
 870 WHCU NY ITHACA - 3/22 1900 noted w/s/off, mention of Cornell Univ.
 ownership, log sez fulltime. (GW-PA) S/off at WWL sunset (DS)
 900 CHML ON HAMILTON - 3/22 2243 good o/u WLS splatter w/Deacon Blues
 song. (EL-IL) Local like here nightly anymore (DS)
 920 WPTX MD LEXINGTON PARK - 3/5 1245 Paul Harvey nx, "AM 92, WPTX"
 ID, pop mx. (GM-MD)
 WMMN WV FAIRMONT - 3/18 2116-2119 good w/CBS report on Ill.
 primary, then rr. (SP-NJ)
 940 WFNC NC FAYETTEVILLE - 2/11 1743 cw mx, local ads. (MC-MA)
 970 WFUN OH ASHTABULA - 3/22 1814 another rare one here, 1st time in
 2 years w/PSA then rr. (GW-PA)
 1050 CKSB MB WINNIPEG - 3/23 2020 good w/FF CBC net. stuff. (EL-IL)
 1080 WTIC CT HARTFORD - 3/23 2327 in well w/tele-talk. (ARBO-OH)
 1110 WJSM PA MARTINSBURG - 3/15 1800 noted w/s/off, could have stayed
 on for ½ hour longer according to SSS maps. (HJH-PA)
 This is what is known as the dollar talking-hi! (DS)
 CBD NB ST. JOHN - 3/9 1200 noted regular during the day w/WHIM
 nulled w/CBC stuff, equal w/1070. WVNH still off. (MC-MA)
 1170 WJMQ MA NORFOLK - 3/22 1745 extremely strong for 500 watts at
 s/off, "hope you enjoyed b'cast day," no SSB. (HJH-PA)
 1180 VOA FL MARATHON - 3/23 2017-2018 noted w/SS u/WHAM, noted after
 sister's clarinet went off the air. (EL-IL) Will she
 verify a reception report, Eric? (DS)
 1210 WKNX MI SAGINAW - 3/12 1812 u/WCAU w/local car dealer add, then
 rr, mixing w/tentative WADE, another needed one. (HJH-PA)
 1220 WKBK NH KEENE - 3/12 1800 thought I'd look for this needed one and
 it showed up, musical Our Father then s/off. (HJH-PA)
 1230 KWIX MO MOBERLY - 3/26 1933 on top of the heap w/ID then gone. (LG)
 WHCO IL SPARTA - 3/26 1934 faded in after KWIX w/wx for Sparta
 then ID. (LG-KY)
 1260 WWDC DC WASHINGTON - 3/17 2057-2100 good w/nx, spots, ID. (SP-NJ)
 1270 WCBC MD CUMBERLAND - 3/16 1853-1854 fair in mess w/"Cumberland
 Broadcasting Co.", ID then Capital hockey. (SP-NJ)
 WDLA NY WALTON - 3/16 1705 finally caught this one w/state nx,
 little local WPXN-1280 splatter. (JB-NY)
 WTSN NH DOVER - 3/16 1740 very strong w/mobile report from
 scene of fire. (JB-NY)
 1290 WQIN PA LYKINS - 3/17 1815 s/off followed by legal ID, no SSB (HJH)
 WFBG PA ALTOONA - 3/9 1815-1818 noted w/AT-40. (BB-NY) 3/17
 2051 good w/album give-away promo, mx. (SP-NJ)
 WPVA VA PETERSBURG - 3/9 1808-1811 loud w/CW mx, new. (BB-NY)
 1320 WOBL OH OBERLIN - 3/20 1921 ad for Lorain Co. Bank confirmed ID,
 one of my toughest ID's ever. (LG-KY)
 WKAN IL KANKAKEE - 3/28 1918 xlnt for a few moments, noted with
 promo for "Peopletalk" program. (LG-KY)
 1330 KSJN MN ST. PAUL - 1952-2001 s/off, promo's for NPR, MN Public
 Radio, extended wx, then s/off. (MS-MB) Date: 3/11.
 WHOT OH CAMPBELL - 3/21 1920 fair w/ad & several ID's. (LG-KY)
 1370 WSAY NY ROCHESTER - 3/20 1825 faded up w/quick ID. (LG-KY)
 WCOA FL PENSACOLA - 3/27 2058 fair for a moment w/wx, ID. (LG-KY)
 1410 WIZM WI LACROSSE - 3/28 1913 nice w/ID while tuning thru. (LG-KY)

1420 CJMT PQ CHICOUTIMI - 3/21 1833 dominant w/FF talk, jx. (MC-MA)
 WWSR VT ST. ALBANS - 3/17 1759 putting in a respectable signal
 at s/off w/SSB, new for me. (HJH-PA)
 WCED PA DUBOIS - 3/16 1606 in with jx after CBS nx. (JB-NY)
 1430 WMNC NC MORGANTON - 3/27 1910 good on nite pattern o/WIRE, etc. (LG)
 CKFH ON TORONTO - 3/18 2053 good w/some fading w/Beatles, ID then
 Steve Forbert mx. Format switch? (SF-NJ) They changed
 last year, formerly CW mx. (DS)
 1440 WBUY NC LEXINGTON - 3/10 1828-1832 finally, a good ID on this,
 Thought for the Day, then feature show, "People Who Are
 Different" w/Bill Cullen. (HJH-PA) A show for Jerry Starr?
 1460 Wcmbm PA HARRISBURG - 3/18 2054-2056 weak w/mx, Post Office PSA (SP)
 1470 WSAN PA ALLENTOWN - 3/13 2113 strong w/mx, "14-70 Infocenter",
 spot. (SP-NJ)
 WBTX VA BROADWAY - 3/16 1814 MoR mx til s/off, location of tower
 given, no SSB. (EB-PA)
 1480 WCNS PA LATROBE - 3/24 1817 very loud w/PSA, spots. (EB-PA)
 1490 WGCH CT GREENWICH - 2/25 1200 first time noted w/local nx, rr(BB)
 1520 KMAV ND MAYVILLE - 3/12 1930 s/off after wx, 2nd time heard. (MS)
 1530 WHYP PA NORTH EAST - 3/16 1658 in briefly w/nx. (JB-NY)
 WTHM MI LAPEER - 3/16 noted at 1700 s/off, early for March.
 Mentioned that FM was s/off also. Could this be a reg.
 Sunday s/off? (JB-NY) 3/22 1840 u/WCKY w/AM accident
 report, getting to be a nightly visitor. (BB-NY)
 1540 WJDM NJ ELIZABETH - 3/24 1747-1748 fair w/NY Daily Nx spot, ID (SP)
 WBTC OH UHRICHSVILLE - 3/23 1831 in well w/"WBTC Constant
 Country" jx. (JB-NY)
 WARD PA PITTSTON - 3/16 1634 in w/rr in CHIN null. (JB-NY)
 WGRK KY GREENSBURG - 3/16 1251 on top w/good signal. My old VJ
 log sez on 1550, surprise to me. (RN-KY) They switched
 freq. sometime late last year. (DS)
 1550 WVAB VA VIRGINIA BEACH - 3/23 1815 s/off good, no SSB, ment's
 "Nations Fastest Growing City." (EB-PA)
 WMLB CT W. HARTFORD - 3/19 1800 weak w/s/off, no SSB. (SP-NJ)
 WNTN MA NEWTON - 3/19 1730-1734 good w/"Solid Gold Radio", nx,
 again 3/24 w/s/off 1734. Format switch? (SP-NJ)
 WYOU FL TAMPA - 3/18 1815 in SS w/"W-YOU" EE ID. (LG-KY) Did
 they switch from CW mx? (DS)
 1570 WKOL NY AMSTERDAM - 3/16 1632 atop freq. w/rr. (JB-NY)
 CFOR ON ORILLIA - 3/21 1923 popped on top at great level, rr,
 o/CHLO every night since! (LG-KY)
 WFRL IL FREEPORT - 3/16 1849 to s/off at 1900, no SSB noted. (RN)
 WDEW MA WESTFIELD - 3/19 1919 weak w/ment's of Hartford Whalers
 Hockey. (SP-NJ)
 1580 WYFA NY PATCHOGUE - 3/19 1758 good w/s/off, no SSB. (SP-NJ)
 WANB PA WAYNESBURG - 3/23 1830 s/off but then into jx and nx,
 they forgot to pull the AM plug. (JB-NY) Again? (DS)
 1590 WPLW PA CARNEGIE - 3/16 1830 good w/s/off, mentions studio's were
 in Pittsburgh. (EB-PA)
 WTVB MI COLDWATER - 3/19 1913-1925+ xlnt signal, mixing w/pest
 WAKR. (LG-KY)
 1600 WKEN DE AKRON - 3/22 2319 great w/nx, WNTS no problem here. (EL)
 DOVER - 3/17 2359 tentative w/s/off w/SSB, ment. of 1 kw
 and NRC log led to claim, fair u/WINX. (WPT-DC)
 1610 WXT613 OH CINCINNATI - 3/23 1930 finally noted w/TWA parking info.,
 ID, report sent. (EL-IL) If WCKY is throwing in a super
 strong signal some nite, look for him, shows quite a bit
 here after midnight. (DS)

MIDNIGHT MADNESS!

540 WGTO FL CYPRESS GARDENS - 3/24 0055 ET w/rr, ID, strong signal.
 (JB-NY) 3/31 0012 super loud on ET. (BB-NY)
 550 CFJC BC KAMLOOPS - 3/17 0218-0228 w/everything from Pop (Anne
 Murray) to Disco (Boney M), frequent JC-55 promo's,
 mention of album hour 0500-0600 daily. (MS-MB)
 560 CHNO ON SUDBURY - 3/18 0026 loud o/CFNB/WGNG/WGR w/ads, ID. (DY-CT)
 WQAM FL MIAMI - 3/24 0126 loud o/WFIL and/or WHYN w/wx, ID, CW
 mx (note format change). (DY-CT)
 590 WIND IL CHICAGO - 3/17 0321 good w/SID, ads, CST TC. (KAZ-NY)
 WMBS PA UNIONTOWN - 3/24 0001 ID seconds after WVLK s/off then
 into CBS nx. (LG-KY)
 WKZO MI KALAMAZOO - 3/24 0009 w/nx, local sports. (LG-KY)

In Orange County, California



St Joseph Mo 5000 watts

600 CFCH ON NORTH BAY - 3/15 0705-0708 in well w/sports. (JB-NY)
 WSJS NC WINSTON-SALEM - 3/24 0710 w/traffic copter reports, and
 ID. (LG-KY)

610 CKTB ON ST. CATHERINES - 4/4 0032 still loud o/WIOD, WIP looped,
 w/CW mx. (DS-DE)

WDAF MO KANSAS CITY - 3/10 0252-0253 w/contest, ID as "Kansas
 City's Best Station," new. (BB-NY)

620 WTMJ WI MILWAUKEE - 3/17 0238 loud w/ID, local spots. (KAZ-NY)
 WVMT VT BURLINGTON - 3/17 0005-0007 w/s/off, new. (BB-NY)

630 KMAC TX SAN ANTONIO - 3/19 0207-0300 ET w/TT/OC, w/ID noted on
 the hour, loud. (NZ-NE)

640 CBN NF ST. JOHN'S - 3/14 0006 finally caught at s/off, o/KFI/
 CMQ. S/off runs about 2 minutes as they mention power,
 freq., location, etc. of affiliates and relays. (JB-NY)

650 WSM TN NASHVILLE - 3/30 0558 noted w/s/off for xmitter maint.,
 to return 0700. (DS-DE) Here's your chance for KORL-hi!

710 CKVM PQ VILLE-MARIE - 3/13 0020 good in WCR null w/FF. (DY-CT)

740 CBNM NF MARYSTOWN - 3/17 0428 fair to good w/s/on. (KAZ-NY)

790 CFNW NF PORT AU CHOIX - 3/31 0222-0236 while waiting for WPIC-DX,
 weak w/NFLD TC's, relaying CFGB-570 w/MOR, nx, ID. (RA)
 WAEB PA ALLEGHENY - 3/31 0242-0301 in poorly w/CFNW/CKSO/WPIC-DX,
 w/T-40 mx, wx, "79 WAEB" ID's, Bill Sheridan show. (RA-MA)

WTAR VA NORFOLK - 3/24 0526 mixing w/WAEB w/PoP mx, Jx. (ARBO-OH)

850 KOA CO DENVER - 3/17 noted clobbering the channel, very good
 signal all AM. (KAZ-NY)

WHDH MA BOSTON - 3/24 0115 popped on for annn'd ET. (DY-CT)
 WJW OH CLEVELAND - 3/13 0232 well atop w/contest promo, ID,
 PSA, morning show promo, long SID. (GM-MD)

860 UNID 3/29 weak TT o/u XEMO 0310-0330+, same direction as
 XEMO. (JS-OH)

UNID 3/24 0015-0030 ET w/CW mx, ID given at 0023 sounded
 like WBMW. Help? (JB-NY)

900 KFLP TX FLOYDADA - 3/28 0240-0305 apparent ET running tape of
 HS BKB game w/spots cut out, fair to good signal. (NZ-NE)

910 WJCW TN JOHNSON CITY - 3/24 0714 often heard but not as strong
 as this, CW mx. (LG-KY)

CHRL PQ ROBERVAL - 3/24 noted AN this AM w/FF MOR. (DY-CT)

920 CKCY ON SAULT ST. MARIE - 3/10 0135-0137 w/mx, local skating rink
 spot, reported. (BB-NY) 3/13 0224 o/u mess w/female DJ,
 pop mx, ID. (GM-MD)

930 WBEN NY BUFFALO - 3/17 0711 fair o/jumble w/bank ad, ID. (LG-KY)

950 WFET NC GREENSBORO - 3/25 0715 good signal w/ID noted. (LG-KY)

WKAZ WV CHARLESTON - 3/13 0222 atop w/pop mx, "95 KAZ" ID. (GM)

960 CHNS NS HALIFAX - 3/15 0000 way o/WELL w/ID, AST TC, mx, ID's as
 "Radio 96" (another original slogan-hi!). (DY-CT)

970 WCSH ME PORTLAND - 3/15 0005 xlnt o/WWDJ w/NBC nx, ID, wx. (DY-CT)

980 CKGM PQ MONTREAL - 3/13 0211 u/local WRC w/rr mx, ID. (GM-MD)
 3/20 0138 xlnt o/WRC w/rr, "Million Dollar Weekend" promo,
 many ID's. (EB-PA) Remember when they were HARD to hear
 in these parts? (DS)

990 CBW MB WINNIPEG - 3/13 0207 standard CBC s/off giving repeaters,
 add., shallow modulation in WRC slop. (GM-MD)

WHOO FL ORLANDO - 4/1 0230 noted way atop WZZD w/CW mx, 1st time
 noted on RS here, possible day power ET. (DS-DE)

1000 WCFL IL CHICAGO - 3/31 0134 noted on OC, earlier MM s/off? (DS)

1060 CJRP PQ QUEBEC CITY - 3/14 0010 clobbering KYW/Portugal w/FF,
 rare except on SSS. (DY-CT)

1070 CBA NB MONCTON - 3/20 0010 w/standard CBC s/off, Oh! Canada. (GM)

WINA VA CHARLOTTESVILLE - 3/13 0109 good o/WIBC w/s/off, SSB. (DY)

1080 WTIC CT HARTFORD - 3/17 0037 noted off this AM, leaving only
 KRLD/WVCG. (KAZ-NY). Ditto 0107. (RA-MA)

1110 UNID 3/16 0200-0330 weak station heard w/EZL mx, low "A" this
 am, CHQT possibly? (HJH-PA)

KFAB NE OMAHA - 3/16 0105 ID, nx, fair signal, 1st time in ages. (DY)

1130 WNEW NY NEW YORK - 3/24 off at least part of this MM w/only
 WCXI noted, back around 0315. (RA-MA)

1140 CJTR PQ THREE RIVERS - 3/16 0100 loud w/FF, WRVA off. (DY-CT)

1180 WHAM NY ROCHESTER - 3/24 0047 ET w/TT. (WPT-DC) 3/24 0105 loud
 w/ET/TT, back to RS 0200. (DY-CT)

1190 CHTN PEI CHARLOTTETOWN - 3/24 0034 strong w/rr, female DJ, beside
 WHAM TT. (JB-NY) 3/24 loud o/UNID 0103. (DY-CT)

1240 WHUM PA READING - 3/24 0116 on top w/CW mx, Accu-weather. (JB-NY)
 Dave Fox's favorite station-hi! (DS)

1240 WEDC IL CHICAGO - 3/31 0335 back again w/SS program. (JS-OH)
 UNID 3/31 0400-0435+ very loud ET/TT, held steady all
 during this time, loops E/w. (JS-OH) It was WBBW dummy! (DS)

KASL WY NEW CASTLE - 3/31 0600 very loud w/WBBW audio. (JS-OH)

WBWR NY BEACON - 2/11 0852 rr, ID thru nulled WEZE. (MC-MA)

WMMW CT WESTPORT - 2/11 0850 atop WBWR/WNDR w/WEZE nulled, ad
 mentioning stores in Danbury/Westport, old time mx. (MC)

WBBG OH CLEVELAND - 3/23 0045 fair/good w/mention of LP giveaway (EB)
 3/24 0045-0105+ noted end of hockey game (Burlington vs??),
 BBD type mx w/o usual sportscaster drivel, no ID on hour,
 ET of sometype? (DY-CT)

1270 CFGT PQ ALMA - 3/24 0033-0036 w/FF talk, ID, new. (BB-NY) 4/7 0245
 doing a job on WXYZ w/FF talk. (DS-DE)

1290 CJBK ON LONDON - 3/20 0030, w/TT/ID, rr. (GM-MD)

WHIO OH DAYTON - 3/13 0130 w/wx, travellers advisory, ID, nx. (GM)

WOOD MI GRAND RAPIDS - 3/18 0101 tentatively the one w/s/off, SSB.

KOLY ND MOBRIDGE - 3/18 0110 tentative on f/c TT, breaks each 5
 minutes, to weak for voice to get thru, if any. (DY-CT)
 This might be KOLY, heard the last 2-3 months here on
 each try. (DS-DE)

1320 WKAP PA ALLEGHENY - 3/18 1021-1024 good w/mx, talk about surgery
 mix-up in Phila., then mx. (SP-NJ)

CJSO PQ SOBEL - 3/31 0100-0105 nx in FF, then ID. (BB-NY)

WVOJ FL JACKSONVILLE - 3/10 0119-0121 long sought, heard w/ads,
 PSA. (BB-NY)

CFGM ON RICHMOND HILL - 3/13 0119 poking thru w/"Big Daddy's Stereo
 Store," wx, ID, CW mx. (GM-MD) 3/15 0015 o/WATR w/wx (DY)

1330 WFBC SC GREENVILLE - 3/13 0116 atop w/soul mx, Cross Creek Mall
 spot, ID. (GM-MD)

1340 WKGN TN KNOXVILLE - 3/31 0142 noted w/promo for oldies show, jx,
 then rr. (DS-DE)

1350 CHOV ON PEMBROKE - 3/16 0005 clear w/s/off w/Canadian National
 Anthem. (JB-NY)

UNID 3/24 0043-0049+ loud ET/TT, possible WCBA or unn WRNY
 from loop direction. (DY-CT)

1360 WDRC CT HARTFORD - 3/23 0200-0201 weak u/WWBZ w/rr, legal ID (SP)
 3/13 0110 loud w/female annn'r, nutty record store spot,
 SID, "Big D". (BD-DE)

1370 WSPD OH TOLEDO - 3/17 0200 w/CW mx, legal ID, NBC nx. (GM-MD)

1380 WQHK IN FORT WAYNE - 3/31 0848 fair signal, ID'ed for me by Pat
 Hartlage. (RN-NY) And a bill for his service is in the
 mail-hi! (DS)

1390 WEAM VA ARLINGTON - 3/24 2100 noted off, but back at 2106. (WPT)
 Wrong section, sorry. That's a quick SP, isn't it? (DS)

WFMJ OH YOUNGSTOWN - 3/27 0241-0300 loud on ET w/steady TT w/ID
 on hour. (NZ-NE)

WFBL NY SYRACUSE - 3/17 0130 w/Top 40, "Fire 14" ID's. (GM-MD)

1400 WDOT VT BURLINGTON - 3/24 0041 good w/ID noted. (DY-CT)

WRDO ME AUGUSTA - 3/13 0007 strong o/pack w/NBC nx. (DY-CT)

CKCB ON COLLINGWOOD - 3/31 0011 tentative s/off w/NA, based on
 NRC log info. (WPT-DC)

1410 WPOP CT HARTFORD - 3/14 0639 good o/u WDOV w/traffic nx. (SP-NJ)
 DAYTON - 3/10 0019 o/WPOP w/wx. (BB-NY)

1430 WJRB TN MADISON - 3/26 0003 poor, CW mx, ID's as "JRB Madison."
 (EB-PA) 3/31 0826 on top for a couple of minutes, ID'ed
 by Pat Hartlage for me. (RN-KY) 3/31 0310 atop, calling
 itself "JRB" w/many Nashville mentions. (JS-OH)

CKFH ON TORONTO - 3/13 0100 w/CW mx, ID, local nx. (GM-MD)

1450 WCVS IL SPRINGFIELD - 3/30 0328 briefly atop. (JS-OH)

1470 WMBD IL PEORIA - 3/17 0106 w/CBS nx, ID, wx, tele-talk. (GM-MD)

1480 WUEZ VA SALEMS - 3/27 0015 noted on ET w/rock, casual talk, mention
 of many calls rec'd, etc. (DS-DE)

1490 WABJ MI ADRIAN - 3/10 0259 w/PSA for census, ID. (BB-NY)
 WMPX MI MIDLAND - 3/31 0235-0249+ w/RS mx and spots, log change,
 log seq 0000-0500 MM SP. CBS net. (JS-OH)

WYTL WI OSHKOSH - 3/17 0311-0312 shock w/2 ID's noted. (KAZ-NY)
 UNID 3/24 0038 loud FFC noted this MM, none listed. (DY-CT)

1500 WDEN GA MACON - 4/7 0145 noted on ET w/WDEN-FM audio, PSA's,
 promo's, CW mx, pinning meter at times. (DS-DE)

1510 WITS MA BOSTON - normally NSP, has been noted off past several
 MM's thru Feb. & March, leaving CJRS/WLAC. New SP? (RA)

1520 WCHE PA WEST CHESTER - 3/19 & 4/1 ET w/TT/OC/mx. F/c run on
 3/19 after day of problems. 0001-0200 both AM's. (DS-DE)

WKBW NY BUFFALO - 4/1 0200 conducted a PoP this AM. (DS-DE)

WCKY OH CINCINNATI - 3/24 0136 noted w/ID, off at 0230 check. (DY)
 SHENANDOAH - 3/24 0030 w/ID right after WCKY s/off,
 then off. ET? (LG-KY) Yes! (DS)



1530 WTTI GA DALTON - 3/10 0218-0224 ET w/Top 40 mx, reported. (BB-NY)
 1550 WMOO AL MOBILE - 3/31 0122-0127+ still another loud ET, pinning the meter. (RA-MA) They must not have many listeners on RS, we're a captive audience-hi! (DS)
 WUTQ NY UTICA - 4/5 0528-0545 noted w/CW mx, ABC info. nx, Art Stewart show, thru CBE OC. Ditto 4/6 0535. (DS-DE)
 UNID 4/4 0035 somebody here w/noisy carrier w/SS mx, WRHC ET? (DS-DE)
 1560 KKAQ SD ABERDEEN - 3/15 0345 briefly fair to good w/full ID, back 0413 w/K-K Double A ID. Noted again 3/17 0204 w/nx but lost to super splatter from local WFTR. (KAZ-NY)
 1570 CFOR ON ORILLIA - 3/13 0050 w/pop mx, contest promo, o/CKLM. (GM)
 CKLQ MB BRANDON - 3/10 0103-0105 poor u/CKLM OC w/wx, my 2nd MB station. (BB-NY) (No date-DS) fair w/MB wx u/CKLM 0308, "Q Country" ID 0310. (KAZ-NY)
 1580 WYFA NY PATCHOGUE - 3/22 noted w/0600 s/on, Scott Taylor show, Top 40 mx, fair signal. (DS-DE)
 WSRF FL FT. LAUDERDALE - 4/4 0025 very loud w/CW mx, female annn'r w/nx. "Great American Country." (DS-DE)
 KNIX AZ TEMPE-PHOENIX - 3/31 0410-0419 very strong w/deep fades, w/CW mx, "KNIX ARIZONA COUNTRY" ID's. Those needing AZ should try for this one. (RA-MA) Anybody know if Cliff Reno is still working there? (DS) 3/15 0357-0358 poor w/2 ID's noted. New state for me. (KAZ-NY).
 UNID 3/15 0402-0406 very weak w/what sounded like a black accented preacher, KDAY? (KAZ-NY) Sounds like them. (DS)
 UNID 3/15 0433 Top 40 noted weakly o/others. (KAZ-NY) KLOU shows up alot on MM here, most likely they. (DS)
 1590 WNTS IN BEECH GROVE - 3/31 0318-0330 noted on ET w/various TT, OC, ID on the half-hour. (NZ-NE) Has an unreal signal here usually way o/WAKR. This must've been a PoP. (DS)
 WETT MD OCEAN CITY - 3/24 0026 best level yet. (DY-CT)
 1600 KATZ MO ST. LOUIS - 4/7 0220 noted running recorded wx then quickie promo and gone to din. First time in a while. (DS-DE)

UNID'ed HELP!

From George Walton, Easton, PA.: "Paul Mount, in 3/3 DDXD, your 1580 s/off has to be WHHM - Henderson, Tenn. The only other station on 1580 w/an FM on 102.9 is WCLS, they're fulltime. Jerry Starr, WPMP was what you heard in the 2/11 issue, ID'ed per tape, many "Singing River" ID's given. Also the Singing River passes close by."

QUESTION OF THE WEEK!

DAVE ARBOGAST ask's the musical question...."When does WMOO do their ET'ing?" Dave, set your clock radio to 1550 any MM at 1:15 am, they've been on EVERY MM so far this season!

MEANWHILE, AT THE OTHER SIDE OF THE POND:

HERB MOUNTAIN in BLACKPOOL, ENGLAND has again sent some interesting domestic catches which I thought would be of interest. Herb's receiver is a PANASONIC RF-2800, using a JOYSTICK ANTENNA/JOYSTICK TUNER. All times are ELT:

660 WNBC NY NEW YORK - 3/14 2320 Top 40 record by Boston, mention of W-N-BC.
 770 WABC NY NEW YORK - 3/14 2044-2050 weak w/Top 40 mx, ID, splatter from BBC-Radio Leeds 774.
 870 WWL LA NEW ORLEANS - 3/17 0310 faint w/CW mx, mention of Charlie Moore, Ernest Tubb song.
 1010 WINS NY NEW YORK - 3/14 2041 w/baseball results, amazingly clear for a few seconds then gone to splatter from Holland-1008, now AN.
 CFRB ON TORONTO - 0320-0326 very clear w/Sinatra, then mention of Maple Leaf sugar, completely over WINS & LOPIK-1.
 1020 KDKA PA PITTSBURGH - 3/11 1922 ad for Ice Follies and Pittsburgh Civic Arena. Again on 3/17 0336 w/ID w/effect.
 1040 UNID 3/12 2255-2259 BKB game in progress but faded before ID, WHO likely.
 1050 UNID 3/12 2248 mention of "The Wall" LP & producers name, heavy BBC Radio 1/2 splatter. Likely CHUM.
 1070 CBA NB MONCTON - 3/12 2303-2305 CBC wx for maritimes, slight to loud het from 1071.
 1080 WTIC CT HARTFORD - 3/14 2036 w/Mayflower & Sunkist Orange ad's, Mike Miller phone-in show, 1st time heard, xlnt. signal.
 1120 KMOX MO ST. LOUIS - 3/15 1910 noted w/weather report, weak.

1130 WNEW NY NEW YORK - 3/14 2023 Ad for 10 day tour of Egypt, jx, then Nat King Cole record, xlnt.
 1170 WWVA WV WHEELING - 3/12 2216 2216 w/gospel song, o/u Radio Tees and all others.
 1200 WOAI TX SAN ANTONIO - 3/12 w/phone in show, slight VOA-1197 splash.
 1300 CBAF NB MONCTON - 3/13 2001-2006 in FF w/jx, ID given twice, short speech in FF then light classical mx, o/WERE.
 1330 WERE OH CLEVELAND - 3/11 1936 talk show w/ID then editorial.
 NEW YORK - 3/14 2131 1st time for this location, political talk then ID, for AM-FM, "The station that speaks your language."
 1390 WEGP ME PRESQUE ISLE - 3/12 2228 noted w/"13 WEGP" ID then Top 40.
 1440 CFGO ON OTTAWA - 3/12 2229 in like a local w/Music Radio ID, Top 40 mx.
 1510 WITS MA BOSTON - 3/13 1925 noted w/spot for Poppa Gino Pizza.
 1520 WKBW NY BUFFALO - 3/17 0341 female annn'r, mention of "KB", Top 40 mx.

Thanks HERB for all of your info.

I know this info should go to CHUCK HUTTON but I'm shure that he won't mind me typing up the following info. This was received from a close friend of mine in Honolulu, so, as info, here goes:

HONOLULU AM DIAL as of March 1980

590	KSSK	Contemporary (formerly KGMB)	WTAX - WDBR
650	KORL	Top 40	P.O. BOX 3166
690	KKUA	Top 40	SPRINGFIELD, ILLINOIS 62708
760	KGU	Contemporary MoR/jazz	
830	KIKI	Top 40 (was formerly disco til fall '79)	
870	KIAM	Religion (staffed entirely by volunteers!)	
940	KDEO	Contemporary MoR (recently changed calls from KAHU)	
990	KHVV	All News (ABC, NBC, & CBS networks!)	
1040	KPOI	Oldies	
1080	KIOE	Tele-talk/country & western	
1130	KLEI	Automated easy listening	
1170	KOHO	Japanese	
1210	KZOO	Japanese	
1270	KNDI	Religion/ethnic/public affairs	
1420	KCCN	Hawaiian (Don Ho records-hi! -DS)	
1500	KUMU	Beautiful mx, automated "FM-100" service	
1540	KISA	Filipino, Samoan, etc.	

Thanks go to Dave Shayer in Honolulu for this info.

WE'VE BEEN BROUGHT TO YOU BY THIS TIME:

GM-MD	Greg Monti, Silver Spring, MD	TRF
RN-KY	Richard Nall, Louisville, KY	SPR4, Box Loop
NLM-NM	Norm Maguire, Albuquerque, NM	RCA 86T, TRF, LW
JB-NY	Jerry Bond, Rochester, NY	HQ-180, Lapstick
JS-OH	Jerry Schtarr, Hubert, OH	A2515, LW, Loop
JWB-PA	Joe Brauner, Groundhogsville, PA	RF 1150, TRF, 50' LW
BB-NY	Bill Bergadano, Staten Island, NY	TRF
SP-NJ	Steven Paradies, Millville, NJ	SX-122, 12 oz. Beverage
LG-KY	Lynn Gillis, Bloomfield, KY	RF-2200, Sanserino loop
RA-MA	Ray Arrruda, Acushnet, MA	TRF, LW
GW-PA	George Walton, Easton, PA	R-390A, Loop
EB-PA	Eric Breon, Middletown, PA	TRF
CH-RI	Craig Healy, Pawtucket, RI	R-390A, Loop
DY-CT	Dave Yocis, Fairfield, CT.	TRF
MS-MB	Morris Sorenson, Leaf Rapids, MB	HQ-150, TRF, SM2
NZ-NE	Neil Zank, Lincoln, NE	GE "Great Awake." MW1 loop
WPT-DC	William P. Townshend, Washington, DC	TRF
EL-IL	Eric Loy, Mahomet, IL	TRF, NC-60, Slinky LW
JF-ON	Jeff Falconer, Clinton, ON	514, TRF, SM2
KAZ-NY	Neil Kazaross, Schenectady, NY	TRF, SM2
HJH-PA	Harry J. Hayes, Wilkes-Barre, PA	HQ-180, Zenith T-0, SM2
ARBO-OH	Dave Arbogast, Rootstown, OH	DX-160, 2 LW's
MC-MA	Mark Connelly, Billerica, MA	TRF
DS-DE	Dave Schmidt, New Castle, DE	HQ-180A, Looped

This is probably one of our biggest yet, I know it's got me worn out now-hi! Thanks to all who have sent in items and for their support, this column wouldn't be without it! Now I can catch up on some other stuff here, like sleeping, eating, etc.

73's & Good DX!

**NUT
HOUSE**

INTERNATIONAL DX DIGEST

CHUCK HUTTON
BOX 2087
DECATUR, GA 30030
(404) 633-1198
BEFORE 2300 ELT

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

Oh no, not another monster..... Well, not really that big but too big for the time available.

- 155 USSR Khabarovsk barely audible 1206-1209 3/19 and 1144-1145 3/20. (Allen)
 182 USSR Petropavlovsk-Kamchatskiy poor 1145-1211 3/19 and 1143-1213 3/20. (Allen)
 191t USSR Blasbovetshevsk possibly with barely audible signal in severe unidentified QRM 1208-1211 3/20. The faint audio seemed to be // 182. (Allen)
 209 MOROCCO RTM Azilal poor to fair in AA 0529-0540 3/20. (Allen)
 218 MONACO Radio Monte Carlo fair to good with rock music and FF language commercials 0508-0529 3/20. (Allen)
 531 ALGERIA poor-fair w/AA chant 0540 3/22. (Kazaross)
 531 SWITZERLAND poor-fair w/light mx, GG anncr w/approximate 4 Hz SAH which was probably Algeria at 0510 3/24. (Kazaross)
 535 UNID thought it was a beacon carrier but 2149 of 3/12 opera mx poked thru for 15 seconds. Carrier here for hours, PFM'ed +11 Hz. (Littek)
 550 CUBA Pinar del Rio I guess loud w/lively mx and lively crowd 0422 3/23 //590. Nothing at all on a relatively dead 580. I'm confused. (Yocis) (Still switching around their xmtrs-can't tell night to night what is going to be where-CH) SS pgm //580, 590 atop CPNB 0516 3/29. (Connelly)
 567 IRELAND good 0547, played "Monday, Monday" at 0620 3/24. (Kazaross)
 570 CUBA CMHI Santa Clara w/LV de Cuba chimes 0400 3/22. Cuba on DST already or is my mind warped from listening to too many Cubans? (Yocis) It may or may not be warped, but Cuba is on DST in April; I don't know the effective date-CH
 576 WEST GERMANY Muhlacker poor-fair w/GG female w/SudDeutscher Rundfunk ID 0100 3/24. (Kazaross) Dominant 0850 w/DDR off. Peak period too! Weird, 3/10. (Littek)
 580 CUBA LV de Cuba noted here considerably weaker than 590 and definitely no 150 or even 50 kw xmtr. MM 3/24. (Yocis) Atop WTAG/WKAQ; nx in SS by man and woman, frequent mentions of revolution in El Salvador 0515 3/29-pgm //550, 590. (Connelly)
 585 SPAIN weak at 0435 3/25. I was looking for Tunisia but no luck although 531 was fair. (Kazaross)
 590 ARGENTINA R. Continental good at 0825...lots of talk...3/17. (Crawford)
 590 CUBA yet another twist in this story as LV de Cuba was noted here 0508 3/19. Appears just as strong as before. Now I had thought this one had moved to 550....(Yocis)
 590 UNID somebody here w/rx mx 0144 3/17. Carrier here all night. Under cx, VOCM a safe guess. (Littek) (Probably so, they are well heard almost nightly in Europe, one of the best TA's-CH)
 590 594 UNID SL beacon 2320 3/12. From where? (Littek) Slobovia Lower, hi.. SAUDI ARABIA Dubai fair in some slop w/Korean chants 3/24 0315-0317. Seemingly //1521 but w/only one R390A it's not easy to tell definitely. All three Saudis s/on 0300 and are totally faded out by 0330 this time of year. Super cx tonite! (Kazaross)
 600 COLOMBIA R. Libertad fair at 0810 mixed w/Cuba's EE pgm 3/17. (Crawford)
 603 FRANCE Lyon very good w/male and female in FF 0441 3/24. (Kazaross)
 612 UNID SAH present w/Morocco-approximately 2.5 Hz 0550 3/24. I suspect Ireland was the source. (Kazaross)
 640 CANADA "As It Happens" 2355 3/11 for my first ever TA. Very hard against Czech on 639. ID clear as CBN at 2359:30. Hot dog! (Littek)
 640 GUADELUPPE good at s/on 0930 w/FF and Island mx, 3/17. (Kaz-NY)
 648 ENGLAND finally logged in WPRO/WSM/WNBC slop w/nx in EE 0404 3/24. Better 1/2 hour later. This is lousy for 500 kw so I suspect a DA is in use on this frequency. (Kazaross)
 660 USA WNBC w/Fleetwood Mac pop mx, ID 0201. Didn't recognize the next song, 3/12. (Littek)
 675 FRANCE Marseille noted w/enormous signal in FF at 0320 3/24. Is this on early? (Kazaross) They run AN-CH
 680 UNID strong carrier all night, waiting for a no-show WRKO 3/12. (Littek)

- 693 719 ENGLAND very very poor het, slop from 690-no audio 0155 3/20. (Heppen) UNID very weak het here, seemingly much too weak to be Portugal. I am still definitely sure if Portugal is on 719 or 720; more sunset period DX'ing during good cx will be needed to answer this question. Het noted at 2343 3/21. (Connelly) Well, they are definitely not on 719-either on 720 or off the air-CH
 720t PORTUGAL seemingly // to very strong 666 way u/WGN/Cuba. Every time I heard this third stn I quickly switched to 666 and they had the same type of mx and talk 0617-0640 3/24. This was not present an hour later as a careful check revealed only WGN and Cuba then. Of course, no 719 het which usually attacks 720 during such good TA cx. (Kazaross)
 730 CANADA CKAC w/pop mx, ID'd at 0210; into Anne Murray. Love it. First Quebec here. (Littek)
 730 TUNISIA Arabian mx noted on 729,997.45 0540 of 3/12. This fellow first discovered at Limours, France EBU Monitoring Station announcing "Huna Gafsa"; also heard at Jurbise, Belgium EBU stn. 2/20 w/anncr "The Voice of The Revolutionary Movement of Tunisia" in FF. (Littek)
 738 SPAIN Barcelona poor to fair w/man in SS 2306 3/23. (Connelly)
 740 CANADA unid CBC for sure w/talk about north Ontario at 0242. Disappeared at ID time. CBL most likely, but could be CBNM or somebody else. (Littek) That seems to cover most probabilities, hi-CH
 750 CANADA CBGB has to be w/CBC pgm about Toronto playhouses 0045 3/12. (Littek)
 756 PORTUGAL Lisboa noted w/cl mx at low modulation level 2348 3/21. Fair w/cl mx 2307 3/23. (Connelly)
 770 URUGUAY R. Oriental strong 0850 w/"este es CX12 Radio Oriental... Republica de Uruguay...." 3/17. (Crawford)
 770 USA WABC audio finally showed 0358, ID'd at 0410 3/12. Vocals, pop mx, such like tripe. (Littek)
 774 ENGLAND BBC Radio Two, Leeds w/night pgm, pop, light mx at 2305 3/12 way o/Bulgarian nite het. (Littek)
 774 JAPAN JOUB Akita fair between KOB and WBBM 1159-1200 3/21. Orchestral mx at 1159 with time signal pips at 1200 followed by woman in JJ. Wiped out by KSPI's carrier ar 1201. Heard on TRF with SM2 for my first TP MW station logged. (Allen) Nice! CH
 774 SPAIN synchros potent, loudest low band TA at the time; SS talk heard at 2349 3/21. (Connelly)
 782 PORTUGAL Porto/Miramar poor w/bits of talk, but better than 783 which was present only as a het 2352 3/21. (Connelly)
 783 EAST GERMANY very poor het, sloopover from 780 0151 3/20. (Heppen)
 790 ARGENTINA R. Mitre strong 0800 "transmite LR6 Radio Mitre, Buenos Aires en republica de Argentina, en la frecuencia 790...". This on 3/17. (Crawford)
 792 SINGAPORE R. Singapore now calling itself Singapore Broadcasting Corporation. Good in EE with cl mx pgm 1500 3/16. (Crawford)
 810 WEST GERMANY BBC Berlin finally ID'd as alternatively GG; EE voice u/Radio Scotland here. For instance, right now BBC news in GG 3/20 at 2100. (Littek)
 820 CUBA R. Ciudad de Habana superloud most of the time now, totally obliterating HJED. First noted 3/13 0014. (Yocis) It's way over WBAP most of the time for me-CH
 828 MOROCCO clobbering 830 w/AA chants 2335 3/24. (Kazaross)
 828 BELIZE R. Belize has been wandering around the low side of 830, first noted 3/31 or somesuch. Carrier FM's slightly. (Hutton)
 828 MOROCCO Oujda very good w/AA chanting, violins 2332-2337 3/24. (DeLorenzo)
 830 DOMINICAN REPUBLIC HIJB Santo Domingo w/call ID's loud 0458 3/23. (Yocis)
 834 BELIZE strong w/EE anncr, usual everyday reception 0150 3/20. (Heppen)
 840 UNID WHAS I'll bet. Audio appeared for 20 seconds 0220 3/12 w/man speaking EE. (Littek)
 850 USA WHDH strongest American signal w/good strength most of the nite. Pop mx, weather 0049, ID followed, 3/12. (Littek)
 850 URUGUAY R. Carve good with a big ID at 0823 "... transmite CX16 Radio Carve de Montevideo, Uruguay...frecuencia....". Better than ever heard on SW here, 3/17. (Crawford)
 860 CANADA CJBC ID'd at 0230 3/12 w/FF talk. Pulled out of a jumble of at least three stns. (Littek)
 860 DOMINICAN REPUBLIC HILR very good w/Radio Clarin ID 0758 3/22. Suspect 50 kw again. (Kazaross)
 860 MEXICO XEMO Tijuana logged on TRF at school in Schenectady w/usual religion in EE. ID at 0658 3/17. (Kazaross)
 864 FRANCE Paris poor w/woman and man in FF 0548 3/22. (Connelly)
 882 ENGLAND Washford et al good thru WCBS slop //693 0220 3/24. (Kaz)

882 UNID het, poor strength, slopover from 880 0145 3/20. (Heppe)
 910 ARGENTINA R. Excelsior came up for an ID for five minutes at 0935
 and promptly faded out. Enough for an ID though fortunately, 3/17.
 (Crawford)
 911 UNID het with hum-definite het, fair strength 0143 3/20. (Heppe)
 930 UNID tuned across "Heart" at 0054. DJ talk at 0056 no help. Unid
 song ended at 0059, talk too weak. Darn. I wonder who. (Littek)
 936 CHINA good signal mixed with a RR at 1500 3/15. (Crawford)
 945 FRANCE Toulouse poor to fair w/man and woman in FF 0547 3/22.
 (Connelly)
 954 SPAIN Madrid EAJ2 taped w/SS ballads mostly poor 2340 3/24. (Kaz)
 960 MEXICO XEK Nuevo Laredo, Tams. 3/26 0315-0345 fair to quite good
 w/local baseball broadcast in SS. Many interesting Corona beer ads.
 Very distinct, reflective sounding anncr, reminded me of a SS
 John Callarman. (Zank) So what's a guy like that doing wasting his
 talent at a small Mexican station, hi-CH
 963 INTERNATIONAL WATERS R. Caroline temporarily out of business.
 Ship sunk today around 1800. I didn't hear it live but BBC played
 a tape of DJ's last message, very interesting, 3/20. Guess that
 makes my PFM's useless....(Littek)
 970 MEXICO XEJ Ciudad Juarez on top in SS with local WAVE-970 off.
 Man ID;ed in SS giving call, frequency, and Radio Mexicana ID.
 This on MM 3/24 at 0839. (Nall)

"OPPS DEPARTMENT"..... Here's the rest of the 700 section.....

700 JAMAICA fair w/US mx, accented EE anncr in WLW null 0513 3/19.
 (Yocis)
 702 MOROCCO noted w/carrier appearing at 2154 3/24. Good later at 2315
 w/weird mx. (Kaz)
 720t PORTUGAL PP-sounding talk o/u WGN, both signals weak, 2311 3/25.
 No 719 het noted. (Connelly)
 725 COSTA RICA w/SS weak in heavy slop 0028 3/23. (Yocis)
 729 SPAIN La Coruna poor-fair //stronger 738 and 585 0040 3/24. (Kaz)
 735 UNID het loops south, fair strength, not enough audio 3/20. (Heppe)
 747 UNID TA (Bulgaria suspected) instrumental mx poor 0335 3/24. Too
 weak to ID lang of anncr. Gone by 0420. Holland s/on later and
 noted at 0540. (Kazaross)
 750 JAMAICA way o/WSB/unid Latin at times 0522 3/19 //700. (Yocis)
 756 PORTUGAL Lisboa good w/cl mx o/u the German 2309 3/25. (Connelly)
 756 WEST GERMANY very strong 0410 3/24. (Kaz) Braunschweig/Ravenhurst
 good w/man in GG mixing w/equal strength Portugal 2309 3/25.
 (Connelly)
 765 SWITZERLAND fair-good w/IS in slop at 0458. Weaker at 0500 s/on
 w/man in FF 324. (Kazaross)
 774 SPAIN synchros fair w/SS talk in a monstrous drone, 2318 3/24.
 (Connelly)
 775 COSTA RICA usual everyday 0153 3/20. (Heppe)
 782 PORTUGAL Miramar good w/man in PP 2344-2348 3/24; still on the old
 channel. (DeLorenzo)
 783 EAST GERMANY Burg to good peaks w/man and woman in GG o/782 het
 2307 3/25. (Connelly)
 792 FRANCE fair //the rest of the France Culture net w/approximate
 1.5 Hz SAH, likely from Spain at this late hour. Local WEAN off,
 MM 3/24 0534. (Kazaross)
 1005 COLOMBIA Neiva R. Colossal fair to good in slop w/ID //4945 0804
 3/22. This was the only decent LA split tonite. (Kazaross) Usual
 het 0139 3/20. (Heppe)
 1017 WEST GERMANY noticed fair 0422 3/24. (Kazaross)
 1025 COLOMBIA usual het 0138 3/20. (Heppe)
 1030 USA WBZ-waited for this one all night. Talk show, finally at 0345
 "EZ" mentioned lots, 3/12. (Littek)
 1035 PORTUGAL Porto loud atop SAH; Miles Davis jazz, then PP talk 2340
 3/23. (Connelly)
 1037 INDONESIA RRI Bialk very good signal until s/off at 1353. Not on
 listed freqn 1044, 3/16. (Crawford)
 1044 EAST GERMANY very poor het with slopover from 1040, no audio,
 0136 3/20. (Heppe)
 1044 MOROCCO Sebaa-Aioum in w/big carrier, low audio: Jethro Tull song
 then FF anncr 2339 3/23. (Connelly)
 1062 CHINA Guangdong Peoples Broadcasting Station, Guangzhou often good.
 Talk program 1400 3/17. (Crawford)
 1062 PORTUGAL xlnt-clobbering KYW/CJRP w/cl mx 2245 3/23. No longer on
 1061, only 16 months behind ITU. (Kazaross) Here ex 1061. Opera
 mx good 2323 3/21. Potent, killing 1060 domestics w/cl mx, PP talk
 then piano rendition of "Pictures at an Exhibition" 2331 3/23.
 (Con)

1089 ENGLAND very poor het, no audio 0135 3/20. (Heppe)
 1107 EGYPT poor w/AA chants 0307 3/24, bothered by WBT slop. (Kaz)
 1107 UNID maybe Spain: cl mx poor during Iberian peninsula opening
 2344 3/23. (Connelly)
 1120 UNID short spurt of NA EE w/sports 0122. Probably KMOX but....
 (Littek)
 1125 NEW HEBRIDES Radio Vila w/good signals until s/off 1000. (Crawford)
 1129 UNID fair het and carrier on WNEW at 2218. WNEW is strong and
 prevented any useful audio from coming thru. Help needed, 3/25.
 (Kazaross) I've noted a LA about 600 Hertz low for the last year
 if that could be your stn-CH
 1130 COLOMBIA HJAC Barranquilla w/many local mentions and greatly aided
 by WNEW OC. Since WNEW kept throwing on and off their carrier,
 it was tough to pick out ID's, but slogan is definitely not Em.
 Rio-Mar as listed in WRTH 80, MM 3/24 0606. (Yocis)
 1134t YUGOSLAVIA w/piano mx thru slop from WNEW 0005 3/24. Similar audio
 occasionally audible for most of next several hours. (Kaz) Should
 be-not much else on then-CH
 1134 UNID TA carriers and SAH's in at 2215 3/25, likely from Spain as
 tonight was the best LSS cx to Spain ever noted. (Kaz)
 1143t USSR Kaliningrad-some audio poor in slop 2240 3/23. Same mx as
 1386 at 2300 s/off. (Kaz)
 1152 UNID carrier 2306 3/25. Fairly potent but too much WHUM for audio.
 Must be Romania. (Kaz)
 1161 FRANCE Strasbourg loud at 2235 3/23. (Kaz)
 1165 ST. KITTS poor strength, male speaking EE in religious lecture
 0126 3/20. (Heppe)
 1179 SPAIN Murcia taped poor-fair 2255-2302 3/25. Format was typical
 SER news w/two newscasters (males). At 2300 another man spoke,
 then there was a pause, a short bugle charge; followed by that
 same SS man. Replays of the tape revealed a Radio Murcia ID-this
 is EAJ17, an SER stn. (Kaz)
 1179t SWEDEN poor w/instrumental mx 2305 3/23 during good high latitude
 cx. Fairly lively European dance band mx 2246 3/25. Then fade.
 Back at 2254 w/Mor mx (no vocals) before EAJ17 took over the
 channel. I don't believe that the other Spaniard would have
 this format. (Kaz)
 1188 UNID carrier noted 2232 3/25 and occasional very weak at other
 times, likely of Hungarian origin. (Kaz)
 1197 WEST GERMANY VOA likely w/Jethro Tull played right across the hour
 0000 3/21. Nice to hear really good mx on the ECB. (Kaz) I'd think
 VOA would surely ID on the hour, and also they are supposed to
 s/off at 2330-CH
 1206 FRANCE Brodeaux xlnt w/woman in FF; WCAU just a weak groundwave
 at the time, 2214 3/25. (Connelly) Blasting in on car rx w/oper
 mx 2215 3/20. Many hets noted at the time, mostly on the low end.
 (Connelly)
 1210 CUBA CMKD Holguin about even with WCAU 3/23 at 0555. Man and woman
 in SS with that ticker in background. (Nall) Fair w/time pips
 and nx in SS 0619-0624 //760. WCAU and unid Latin American QRM.
 (Allen)
 1210 USA WCAU with BKB game 0253-anncr going bananas over tied score
 screaming "overtime, overtime". Ad at 0255 for some Penn insur
 ance company, 3/12. (Littek)
 1215 ALBANIA likely w/Slavic lang 0338 3/25. (Kaz)
 1215 UNID time signal pips heard in XEG/WCAU QRM at 0600 3/19. (Allen)
 BBC most likely-CH
 1224 AUSTRALIA 3EA Melbourne, ethnic stn heard over 2WS 1300, now 5
 kw. (Crawford)
 1224 COSTA RICA poor strength, poor audio (almost nothing) 0124 3/20.
 (Heppe)
 1224 UNID Spanish stn-probably Madrid-taped w/SS male and nice guitar
 mx. I have to go over the tape very carefully to see what's there.
 This was not my suspected Rumanian of earlier days, 0003 3/26.
 (Kazaross)
 1224 UNID TA, Bulgaria suspected, operatic mx 2310, soft orchestral
 mx later, female possibly in Slavic lang although too weak to
 tell definitely, 0002 3/21. Better luck next eve with taped IS
 consisting of 7 plucked cords on a harp w/the sequence repeated
 twice, then the same female 0003 3/25. I think she gives the
 "Govorry Sofia" ID next but there's too much slop and noise to
 tell for sure. Tape processing techniques would help. (Kazaross)

1224 UNID strong graveyard type carrier jumble w/mixed up audio 2347 3/23. (Connelly)
 1233 CZECHOSLOVAKIA Praha suspected here w/soft mx in decent East Europe opening w/SAH, 2250 3/23. (Kazaross)
 1260 GREECE VOA Kavalla, thought I had another NA here, but ID at nx time 0300 3/12 fixed that. (Littek)
 1262 UNID het, poor strength, slopover from 1260 0119 3/20. (Heppen)
 1269 YUGOSLAVIA Novi Sad seems to run over Deutschlandfunk on a regular basis. I don't understand as DLF is 35 miles at 600 kw, but 3/19 at 2020, Yugoslavia was on top. (Littek) Easy, you're in the area where there is: (1) no skywave yet and groundwave has died out a lot, or (2) you're getting a bit of skywave which is causing destructive interference to the groundwave-CH
 1296 ENGLAND poor in slop 0543 3/24. I suspect DA. (Kazaross)
 1305 PHILIPPINES DYFX Cebu City often good to s/off 1500. Seems to peak here around 1300 and strength drops nearer to s/off time. Verie signer is Miss Juliette D. Labora. The stn is always pleased to receive reports. (Crawford)
 1310 UNID pop mx here 0117, DJ talk at 0118, no help. Roberta Flack stuff ends 0120, DJ talk buried under mishmash, never ID'ed. Sounded NA. (Littek)
 1319 UNID het, very poor strength, too much slopover from 1320 at 0115 3/20. (Heppen)
 1349t MAURITANIA Nouakchott the likely source of het against 1350 2324 3/23. (Connelly)
 1367 UNID het 0112 3/20. (Heppen)
 1370 UNID low key background type mx made it through for 2 minutes. Does WFEA play Muzak? This at 0116 3/12. (Littek) Not as of the last time I was aware of their format-CH
 1375 ST. PIERRE ET MIQUELON in like a super local until s/off 3/24, fair at 2200 3/24-an hour before LSS. This should make it to the west coast (it has-CH), and is certainly more than the listed 4 kw now (it's 20 kw-CH). I heard them s/off followed by a stronger xtrn w/OC last summer. (Kazaross)
 1377 FRANCE Lille fair w/AA mx //1557 0501 3/29. (Connelly)
 1386t USSR Kaliningrad w/audio bits poor in slop 2250 3/23. Same mx (possibly a NA) as 1143 at 2300 s/off. Both these are listed as 2300 s/off. (Kazaross) (USSR runs till 0200 on 1143 and 1386-CH)
 1395 ALBANIA very good at 2355 s/off w/Internationale 3/23. In SS 2307 3/24 w/1394 het (who's the het?). Good in FF 2243 3/25. (Kaz) I believe 1394 is Togo-CH
 1403 GUINEA tentative, carrier and bits of female screaming heard on 1403 w/nothing on 1404; dogged by heavy WLLH slop 2320 3/23. (Connelly) Good w/African mx 0123 3/24. This shifts back and forth from 1403 to 1404. 1404 het noticed earlier was likely from France which was logged in September. (Kazaross)
 1403 UNID het, very very poor signal strength 0111 3/20. (Heppen)
 1412 UNID TA het noticed on 1413 at 2310 3/25. 1413 had the stronger carrier. Do you know who's still here? (Kazaross)
 1422 WEST GERMANY Saarbrucken poor to fair w/woman in GG, stop 2/1 Hz SAH 0008 3/22. (Connelly)
 1422 USSR little Russky doing it on big German, RR mx clear of Saar-Landischer Rundfunk pop mx 2007 3/20. (Littek) But Germany is far away Berlin with 5 kw and Russia is 50 kw-CH
 1458 ALBANIA likely w/usual female 0340 3/25. (Kazaross) Tentative FF-sounding talk by woman on strong carrier atop low-pitched growl, badly slopped by CKRB 2317 3/23. (Connelly)
 1466 UNID very poor het 0300 3/20. (Heppen)
 1467 MONACO Monte Carlo fair w/music-box IS 0445 3/29. (Connelly) Fair w/religious mx 2309 3/21. Xlnt, like a local w/man in EE who gave ID "This is Trans World Radio on 1467 KHz" 2315 3/23; loudest TA at the time. (Connelly) A cinch to log at 0445 s/on w/music box IS-very good 3/24, xlnt 3/25. (Kazaross)
 1473 UNID het, but very very poor signal strength 0110 3/20. (Heppen)
 1485 AUSTRALIA 2EA Wollongong with 100 watts often over 2WL Lithgow around 1200 to s/off 1400. Also 2EA on 1584 same time but not quite as strong. This one in Newcastle. 2EA on 801 in Sydney. (Crawford)
 1494 FRANCE synchros poor //1206 and 1557 w/France Culture AA pgm 0505 3/22. (Kazaross)
 1500 MEXICO Mexico City XERH fair w/Mexico mention and ranchero mx 0541 MM 3/24 w/WTOP off. (Kazaross)
 1510 USA WITS Boston w/NBC nx, 0103 ad, nx ended at 0105. ID clear, phone# 617-426-2630, in intro to sports talk. I was tempted.... (Littek)

1512 SAUDI ARABIA Jeddah poor-fair at 0257 s/on; AA chants heard later. 1521 was stronger, 3/24. Poor w/AA in slop 2242 3/25. Look for this when 1521 is good. (Kazaross)
 1521 SAUDI ARABIA Duba good 2230 3/23. Fair at 0257 s/on 3/24. First audio noted at 214½ 3/25-1¼ hour before sunset!! Twenty minutes later the 1520 domestics were hard to hear, this was so strong. Traces of carrier noted 2135 3/26, a full 1½ hours before local sunset!! (Kazaross)
 1530 DOMINICAN REPUBLIC HIJN logged w/lively mx then R. Accion ID, poor-fair MM 3/24 at 0702. WCKY off and no Cuba either. (Kaz) No Cuba anytime after 0500/0400 DST-CH
 1530 VATICAN CITY logged 0415 w/tolling bells and ID during big fade in WCKY bkb coverage 3/25. Amazing high band cx to Mediterranean region this morning!! Male in unid lang followed until gradually covered by WCKY. (Kazaross)
 1554 GABON w/audio finally, noted //4777 w/tribal mx 2332 3/23 before Cayman fade-in, seems undermodulated. In next eve as het on Cayman at 2345 3/24. (Kazaross)
 1555 CAYMAN ISLANDS strong, weak audio classical mx 0108 3/20. (Heppen)
 1557 FRANCE Nice very good w/woman in AA, then AA mx //1206 and 1377 0500 3/29. (Connelly)
 1557 MALTA best ever w/DW IS 0355, AA male 0357, chants 0403 3/25. This was very loud. (Kazaross)
 1560 USA WQXR, no ID's but cl mx kept frifting up 0108 3/12. (Littek)
 1566 TUNISIA Sfax poor to fair w/female AA chant, best during pauses in bad CKLM/CFOR slop 0455 3/29. (Connelly) Poor, AA mx barely discernable in bad slop 2305 3/21. (Connelly) Extremely strong w/TT then 0430 s/on 3/25. (Kazaross)
 1566 UNID strong heterodyne, probably from Sfax Tunisia, heard with CKLQ/XERF QRM 0420-0458 3/9. (Allen)
 1575 ITALY fair-good at 0458½ s/on w/anthem and II, fade by 0510. OC was present earlier. (Kazaross)
 1576 CUBA fair strength SS speaking man 0106 3/20. (Heppen)
 1577 UNID TA het noted on high side of 1576, Cuban at 0407. Later the Cuban was weaker and this was stronger. Taped deep voiced male AA monotonous chanting here 0448-0451 3/25. This faded soon and even the carrier was gone by 0458. All the Mediterranean high band TA's seemed to fade quickly at about their respective sunrise times tonight. On the basis of this fact along with the programming-I assume that this is in the area of Libya. Do you know what freq the ship Mebo II is using now? I'd be really pleased to find out what this is!!!! (Kazaross) Mebo is not on 1610/11 anymore but I forget what the new freq is; it is something above 1600....I heard the carrier you heard here but could not make out the programming because Cuba is so strong here-CH
 1584 SPAIN unid SS taped poor from 2315-2349 3/24. This channel is almost always in with at least a carrier. Usually it's a weak mess of SAH and low het garbage. (Kazaross)
 1584 UNID pile of carriers, one wobbling (FM'ing) 0527 3/22. (Connelly)
 1593 WEST GERMANY Langenberg xlnt w/man in GG 0507 3/22. (Connelly)
 1593 Loud w/light mx then woman in GG 0457 3/29. (Connelly)
 1595 UNID het, poor strength, no audio yet 0104 3/20. (Heppen)
 1644 UNID poor signal strength, little or weak audio, lively flute mx 0102 3/20. (Heppen)
 1644 PIRATE on 1643.535 KHz 1902-1918 3/12 w/mx and talk. One good ID taped in DD "Radio Mondura Pirate StationInternational" and said "Wiedersehen" later. Only good ID at 1902 although he spoke 3 times. At 1918 freq was covered by a pulsed carrier. Who is this guy? Any other reports on him? (Littek) Haven't heard anything about him-CH

Richard Allen	Billings, Okla.	FRG7, Palomar converter, TRF, LW, SM2
Mark Connelly	Billerica, Ma.	R390A, MW1
Ray Crawford	Invercargill, NZ	SPR4, Beverages, 100' LW
Marc DeLorenzo	Centerville, Ma.	HQ100, SM2
Mike Heppen	Houston, Miss.	SP600, R391, SM1, LW
Chuck Hutton	Decatur, Ga.	R390A, 2300' Beverages, vertical
Neil Kazaross	Pawtucket, RI	R390A, Sanserino loop, 80' LW
Armin Littek	Hamburg, W. Germany	Rohde&Schwarz, Telefunken rx'es
Richard Nall	Louisville, Ky.	SPR4, 4' loop
Dave Yocis	Fairfield, Ct.	TRF
Neil Zank	Lincoln, Ne.	GE4800 clock radio, MW1 loop

CONTESTS

John Kranika
P.O. Box #86
Montville, New Jersey 07045

Ray Arruda	31	NBC
Rick Carr	73	Mutual
Robert Kramer	50	CBS
Eric Loy	25	CBS
Ray Barno	21	NBC
Frank Wheeler	21	CBS
George Walton	19	CBS

That's how the Network Contest turned out. Rick Carr, once again, put out the best effort, followed by Robert Kramer, but Ray Arruda did the best among the non-winners so he is declared the winner of this Contest. Congratulations Ray, this was a key Contest for you to win because you are now right up there in contention for the Grand Prize. You still have a chance, but Rick and Robert are not going to make it easy, I'm sure. I will now announce that there will be two more Contests to go before the season is over. By the way, Ray, I want to thank you sincerely for your most kind words about this column. I really appreciated it. Anyway, on to the next Contest.

CONTEST #6: ONLY 50,000 WATT U.S. STATIONS COUNT

The only stations allowed to be counted as entries are those which operate with 50,000 watts power at night, according to the N.R.C. Domestic Log and its updaters. Winner will be determined by who can positively identify the most 50kw stations during the allotted time. List your entry in any fashion you wish, but include the stations, frequencies, locations and a little program content and the time, also. DATE: Any one(1) day of your choosing between 0000 April 24-2359 April 28, 1980. TIME: On the day of your choice you may choose any three(3) hour time period between your local sunset and sunrise to participate. This means you can compete between 8:00-11:00p.m., or 1:00-4:00a.m., etc., as examples. I hope this short time allotment puts a little more pressure on you and make the Contest a little more exciting. Please positively identify all your entries, if you all do it then it's fair. But, if one of you decides to count WABC because you know it's there without actually taking the time out to I.D. it, it is giving you an unfair advantage over the others. With this in mind, please don't cheat.

DEADLINE FOR ENTRIES: May 13, 1980

PRIZE: For the last two Contests of this season the one winner per Contest rule will be disregarded. A past winner can win again only in the remaining Contests. No actual "prizes" will be awarded but a past winner has the opportunity once again to gain "first place Grand Prize points(10)" when up to this time the most that could be won by a past winner was 7. Also, as an additional gift to whoever wins Contest 6 a bonus of 10 more Grand Prize points will be awarded. So whoever wins Contest 6 can stack up 20 more Grand Prize points, and enable him to really help his total considerably.

In light of this, please make sure you all put forth your very best effort in the remaining Contests. I urge all who have placed a 5th place or higher finish in any one of the previous Contests to participate. With luck anybody can still win. It should be very interesting to watch things develop. I hope you all participate. With the conclusion of Contest 5 here is how the race for the prize of the gratis subscription to DX News shapes up among our top three contenders-

1. Robert Kramer 34
2. Rick Carr 31
3. Ray Arruda 23

In these days of rising inflation, a free one-year subscription to DX News is sure a nice way to deal with it, wouldn't you agree? If you really want it you won't forget to participate, will you? Prove it!

John

via Dave Bennett

THE WORLD TOMORROW RADIO LOG

Listed by state are the station's call letters, location, frequency and the time *The World Tomorrow* is aired.

Canadian Stations

BRITISH COLUMBIA
CKQR, Castlegar — 1230 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CFCP, Courtenay — 1440 KHZ, 9:30-10:00 p.m. Mon.-Fri.
CJDC, Dawson Creek — 1350 KHZ, 8:05-8:35 p.m. Mon.-Fri.
CKOB, Golden — 1400 KHZ, 8:30-9:00 p.m. Mon.-Fri.
CKGF, Grand Forks — 1340 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CKTK, Kitimat — 1230 KHZ, 6:05-7:00 p.m. Mon.-Fri.
CJJC, Langley — 800 KHZ, 6:05-6:35 p.m. Mon.-Fri.
CKMK, Mackenzie — 1240 KHZ, 11:30-Midnight Mon.-Fri.
CHUB, Nelson — 1570 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CKOO, Oliver/Osoyoos — 1240 KHZ, 9:30-10:00 p.m. Sun.-Thurs.
CHQH, Parksville — 1370 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CKOK, Okanagan — 800 KHZ, 9:30-10:00 p.m. Sun.-Thurs.
CMV, Port Alberni — 1420 KHZ, 10:05-10:35 p.m. Mon.-Fri.
CHTK, Prince Rupert — 560 KHZ, 6:15-6:45 p.m. Mon.-Fri.
CKCR, Revelstoke — 1340 KHZ, 8:30-9:00 p.m. Mon.-Fri.
CKXR, Salmon Arm — 580 KHZ, 8:30-9:00 p.m. Mon.-Fri.
CKSP, Summerland — 1450 KHZ, 9:30-10:00 p.m. Sun.-Thurs.
CTFK, Terrace — 590 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CKO-FM, Vancouver — 96.1 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CVI, Victoria — 900 KHZ, 9:30-10:00 p.m. Mon.-Fri.

YUKON
CKRW, Whitehorse — 610 KHZ, 6:30-7:00 p.m. Mon.-Fri.
ALBERTA
CKOF-FM, Calgary — 103.1 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CKCW, Cochrane — 790 KHZ, 11:05-11:35 p.m. Mon.-Fri.
CKO-FM, Edmonton — 105.9 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CKYL, Peace River — 810 KHZ, 7:30-8:00 p.m. Mon.-Fri.
CIOK, St. Paul/Bonnyville — 1310 KHZ, 8:05-8:30 p.m. Mon.-Fri.
CKTA, Taber — 1570 KHZ, 9:30-10:00 p.m. Sun.
CFOK, Westlock-Edmonton — 1370 KHZ, 8:05-8:35 p.m. Mon.-Fri.

SASKATCHEWAN
CKSA, Lloydminster — 1080 KHZ, 7:30-8:00 p.m. Mon.-Fri.
CIJR, Melfort — 1420 KHZ, 8:00-8:30 p.m. Mon.-Fri.
CHAB, Moose Jaw — 800 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CJNB, North Battleford — 1050 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CKBH, Prince Albert — 900 KHZ, 10:15-10:45 p.m. Mon.-Fri.
CJME, Regina — 1300 KHZ, 6:30-7:00 p.m. Sun.
CFQG, Saskatoon — 600 KHZ, 8:00-8:30 p.m. Mon.-Fri.

MANITOBA
CFAR, Flin Flon — 590 KHZ, 8:00-8:30 p.m. Mon.-Fri.
CJAR, The Pas — 1240 KHZ, 8:00-8:30 p.m. Mon.-Fri.
CHTM, Thompson — 610 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CKJS, Winnipeg — 810 KHZ, 12:05-12:35 p.m. Mon.-Fri.

ONTARIO
CKPC, Brampton — 1380 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CHNG-FM, Burlington — 107.9 MHZ, 1:30-2:00 p.m. Mon.-Fri.
CJSS, Cornwall — 1220 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CJOY, Guelph — 1460 KHZ, 7:30-8:00 p.m. Sun.
CFMK-FM, Kingston — 96.3 MHZ, 9:30-10:00 p.m. Mon.-Fri.
CKLJ, Lakehead — 560 KHZ, 9:30-10:00 p.m. Mon.-Fri.
CKLG-FM, Kitchener — 96.7 MHZ, 6:30-7:00 p.m. Mon.-Fri.
CKLY, Lindsay — 910 KHZ, 9:00-9:30 p.m. Mon.-Fri.
CFPL, London — 980 KHZ, 7:30-8:00 a.m. Sun.
CKO-FM, London — 97.5 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CLTY, New Liskeard — 1230 KHZ, 9:30-10:00 p.m. Mon.-Fri.
CFCH, North Bay — 800 KHZ, 10:30-11:00 p.m. Mon.-Fri.

CKAR, Oshawa — 1350 KHZ, 11:30-Midnight Mon.-Fri.
CKO-FM, Ottawa — 106.9 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CHOV, Pembroke — 1350 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CFPM-FM, Peterborough — 101.5 MHZ, 10:30-10:45 p.m. Mon.-Fri.
CFGR, Richmond Hill — 1320 KHZ, 11:30-Midnight Mon.-Fri.
CHAS-FM, Sault Ste. Marie — 100 MHZ, 12:30-1:00 p.m. Mon.-Fri.
CJQR-FM, St. Catharines — 97.7 MHZ, 11:05-11:35 p.m. Mon.-Fri.
CJSO-FM, Thunder Bay — 94.3 MHZ, 6:30-7:00 p.m. Mon.-Thurs.
CKGB, Timmins — 680 KHZ, 10:30-11:00 p.m. Mon.-Fri.
CKO-FM, Toronto — 99.1 MHZ, 8:00-8:30 p.m. Mon.-Fri.
CKLW-FM, Windsor — 93.9 MHZ, 6:30-7:00 a.m. Sun.

QUEBEC
***CKCH, Hull** — 970 KHZ, 7:00-7:15 a.m. Sun.
CFMB, Montreal — 1410 KHZ, 1:00-1:30 p.m. Mon.-Fri.
***CFMB, Montreal** — 1410 KHZ, 5:00-5:15 S/S Mon.-Fri.
CKO-FM, Montreal — 1470 KHZ, 8:00-8:30 p.m. Mon.-Fri.
***CKCQ, Quebec City** — 1280 KHZ, 7:00-7:15 a.m. Sun.
***CUSA, Ste. Agathe** — 1230 KHZ, 8:45-9:00 a.m. Sun.
***CKLO, Thetford Mines** — CKH, 9:30-9:45 a.m. Sun.
***CHLN, Trois Rivieres** — 550 KHZ, 7:00-7:15 a.m. Sun.
 "In French."

MARITIMES
CKIM, Baie Verte — 1240 KHZ, 6:00-6:30 p.m. Mon.-Fri.
CKNB, Campbellton — 950 KHZ, 9:30-10:00 p.m. Mon.-Fri.
CKVO, Clareville — 710 KHZ, 6:00-6:30 p.m. Mon.-Fri.
CFNB, Fredericton — 550 KHZ, 11:00-11:30 p.m. Mon.-Fri.
CKGA, Gander — 730 KHZ, 6:00-6:30 p.m. Mon.-Fri.
CKCM, Grand Falls — 620 KHZ, 6:00-6:30 p.m. Mon.-Fri.
CHCM, Marytown — 560 KHZ, 6:00-6:30 p.m. Mon.-Fri.
CKCW, Moncton — 1220 KHZ, 9:30-10:00 p.m. Mon.-Fri.
CKEC, New Glasgow — 1320 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CKL, Truro — 600 KHZ, 6:30-7:00 p.m. Mon.-Fri.
CJLS, Yarmouth — 1340 KHZ, 8:00-8:30 p.m. Mon.-Fri.

United States Stations
ALABAMA
***WYDE, Birmingham** — 850, 7:00 p.m. Mon.-Fri.; 10:30 a.m. Sun.
ARIZONA
***KIKX, Tucson** — 580, 10:30 p.m. Mon.-Fri.; 9:35 a.m. Sun.
CALIFORNIA
KFRE, Fresno — 940, 5 a.m. Mon.-Fri.; 8 a.m. Sun.
KIEV, Glendale — 870, 11:00 a.m. Mon.-Fri.
KLAC, Los Angeles — 570, 11:00 p.m. Mon.-Fri.; 7:00 a.m. Sun.
KGUY, Palm Desert — 1270, 8:15 a.m. Sun.
KFBK, Sacramento — 1530, 11:05 p.m. Mon.-Fri.; 8:30 p.m. Sun.
KNBR, San Francisco — 680, 9:00 p.m. Sun.
KUNA-FM, San Luis Obispo — 86.1, 5:30 a.m. Mon.-Fri.

DISTRICT OF COLUMBIA
***WRC, Washington** — 980, 8:30 a.m. Sun.
FLORIDA
WAPE, Jacksonville — 890, 8:30 a.m. Sun.
WINZ, Miami — 940, 12:00 a.m. Mon.-Fri.; 8:30 a.m. Sun.
WIOD, Miami — 610, 11:30 p.m. Mon.-Fri.
GEORGIA
WPL, Atlanta — 590, 11:30 p.m. Mon.-Fri.; 8:30 a.m. Sun.
HAWAII
***KKON, Keelakaua** — 790, 5:00 a.m. Mon.-Fri.

ILLINOIS
***WMAQ, Chicago** — 670, 5:00 a.m. Mon.-Fri.; 6 a.m., 10:00 p.m. Sun.
WMBD, Peoria — 1470, 10:30 p.m. Mon.-Fri.; Sun.
***WTAY, Robinson** — 1570, 10:25 p.m. Sun.

INDIANA
WSBT, South Bend — 960, 11:15 p.m. Mon.-Fri.; 5:00 a.m. Sun.
IOWA
KXEL, Waterloo — 1540, 11:45 p.m. Mon.-Fri.; 5:00 a.m. Sun.

KANSAS
WIBW, Topeka — 560, 5:00 a.m. Mon.-Fri.
KENTUCKY
WHAS, Louisville — 840, 11:30 p.m. Mon.-Fri.

MARYLAND
WPOC-FM, Baltimore — 93.1, 5:00 a.m. Mon.-Fri.; 7:30 a.m. Sun.

MASSACHUSETTS
***WITS, Boston** — 1510, 5:00 a.m. Mon.-Fri.; 7:00 a.m. Sun.

MICHIGAN
***WDEE, Detroit** — 1500, 11:30 p.m. Mon.-Fri.; 8:30 a.m. Sun.

MINNESOTA
KTCR-FM, Minneapolis — 97.1, 6:00 a.m. Mon.-Fri.

MISSOURI
KMIZ, Kansas City — 980, 11:30 p.m. Mon.-Fri.; 11:00 a.m. Sun.

NEW YORK
WBEN, Buffalo — 930, 11:30 p.m. Mon.-Fri.; 8:30 a.m. Sun.

WCNY, New York — 710, 10:30 p.m. Mon.-Fri.; 11:00 a.m. Sun.

WHAM, Rochester — 1180, 11:15 p.m. Mon.-Fri.; 11:00 a.m. Sun.

WSOQ, Syracuse — 1220, 6:30 a.m. Mon.-Fri.; 8:30 a.m. Sun.

NORTH CAROLINA
WSOC, Charlotte — 930, 11:30 p.m. Mon.-Fri.

OHIO
WSLB, Akron — 1350, 10:30 p.m. Mon.-Fri.; 8:30 a.m. Sun.

WCYY, Cincinnati — 1530, 11:30 p.m. Mon.-Sat.; 8:15 a.m. Sun.

WBIG, Cleveland — 1260, 11:30 p.m. Mon.-Fri.; 9:30 a.m. Sun.

WMNI, Columbus — 920, 5:00 a.m. Mon.-Fri.

WCWA, Toledo — 1230, 11:00 p.m. Mon.-Fri.; 8:00 a.m. Sun.

OKLAHOMA
KVOO, Tulsa — 1170, 11:30 Mon.-Fri.; 10:30 a.m. Sun.

OREGON
KWJJ, Portland — 1080, 9:00 p.m. Mon.-Fri.; 9:30 a.m. Sun.

PENNSYLVANIA
WHP, Harrisburg — 580, 7:30 p.m. Mon.-Fri.; Sun.

KQW, Pittsburgh — 1410, 11:30 p.m. Mon.-Fri.; 7:00 a.m. Sun.

RHODE ISLAND
WEAN, Providence — 790, 11:30 p.m. Mon.-Fri.

WGNG, Providence — 500, 9:00 a.m. Sun.

TENNESSEE
WREC, Memphis — 610, 11:00 p.m. Mon.-Fri.

TEXAS
KPRC, Houston — 950, 10:30 p.m. Mon.-Fri.; Sun.

WOAI, San Antonio — 1200, 10:15 p.m. Mon.-Fri.; 10:00 a.m., 7:30 p.m. Sun.

UTAH
KSL, Salt Lake City — 1160, 5:30 a.m. Sun.

VIRGINIA
WCPK, Chesapeake — 1600, 12:30 p.m. Mon.-Fri.; Sun.

WNNS, Norfolk — 1300, 5:30 a.m. Mon.-Fri.

WASHINGTON
KGRC-FM, Auburn — 89.9, 12:00 Noon Sun.

KAYO, Seattle — 1150, 11:30 p.m. Mon.-Fri.; Sun.

WEST VIRGINIA
WKEE, Huntington — 800, 5:30 a.m. Mon.-Fri.

WKEE-FM, Huntington — 100.5, 5:30 a.m. Mon.-Fri.

WWVA, Wheeling — 1170, 5:30 a.m. Mon.-Fri.; 10:30 a.m. Sun.

WYOMING
***KTWO, Casper** — 1030, 9:30 p.m. Mon.-Fri.; 9:00 p.m. Sun.

KYCN, Wheatland — 1340, 9:30 a.m. Sun.

*Denotes time or station change
 **Denotes 50,000-watt wide-area station

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, MASS. 02657

SEVERAL PLACES SEEN BY GREENE

GEORGE C. GREENE - 1527 Sunset Avenue - Akron, Ohio - 44301

8003.25 and even though my city has only a one-word name (though sometimes I wish it were two, like Miami Beach, San Diego, etc., hi), here's another Muse. No recent DX from here, but some stuff has been noted during weekend travels. On 3/8 over in Chicago, CKC-1150 noted w/excellent signals. While in the N. Michigan Avenue area (near the Hancock Building), an extreme amount of noise was noted all across the BCB, even blocking some Chicago locals - I wonder what is causing this? On the way back to Ohio, CKGM-980 was noted. Speaking of which, it seems everyone is hearing them often and with good signals these days - their pattern must be out of whack, hi. On 3/22 & 3/23 in the 2-3am range, strongester w/rock was noted on 1580 while at JERRY BOND's in Rochester; direction-finding tended to indicate WYPA. If it was, w/a signal like they had, they should have been audible here in WAKR's backyard. 3/24 approximately 1:15am on car radio near Ashtabula, O., KQWB-1550 was noted w/WX forecast & adult contemporary mx. Toronto has a new semi-local, as CKAN-1480 Newmarket has begun their RS as of approximately 2/28. It's a typical small town format, w/a reasonably good signal in Toronto by day and virtually none at night. Towers must be SE of Newmarket, as most of the pattern apparently goes W & N. As for CFTR, it seems to be a lot weaker, signal-wise, in the Cleveland area the past few weeks. In some other news, WQAM-560 has dropped their long-standing rock format for c/w as "Sun Country"; WIBM-1450 will move their calls & rr to their FM, while the AM becomes c/w as WACM; Erie's WWGO-1450 is now WEYZ & soft MoR; changes at WBUD-1260 also, as Philly jock Hy-Lit is running the place with a new adult contemporary T-10 format, w/ some black music at night (calls are to change to WKXW). I see where KNEW-910 was sold to Malrite (WNYR, WHK, WZUU) while their former owners (Metromedia) bought KJR-950; I doubt if any music changes will result, though. One other change to mention: WRCG-1420 is now c/w. I was up to Williamsford, Ont. a few weeks ago and visited Ralph Jenson, better known under another name. Guess that'll do it for now. 73.

GARY'S NEARING TWO-AND-A-HALF THOUSAND HEARD

GARY SIEGEL - 2728 106th Street - Toledo, Ohio - 43611 "Toledo, City of the 80's"

Let me see, I missed the Ohio issue, the states bordering a body of water issue, the Irish issue, so having not made those it makes sense that I should be in the April Fool's issue. (Too late, Gary - you missed that too! -ERC) Such is the price to be paid for not Musings, hi! First, a welcome back is in order for KEN (the WOS-pronounced woos - an old three letter call, hi!) ROMSTADT to the Club. It has been much too long & it took a great deal of prodding to get NW Ohio's #3 (soon to be #2) DXer back into the Club. FRANK MERRILL, did you notice the above comment re Ken's standing, hi! Bzzzt! Some of Ken's recent DX has also had me gasping for air, many of you likely noticed them listed in the Vol. 47 #20 issue. Among his most annoying were WGRO-960 & CRKE-1460, whew! I did manage to counter with WSRW-1590 & CFTJ-960 so all was not lost, hi! Ken was as surprised as I to get CJJC-920 N.B.; I'm still wondering how this one happened, hi! Anyway "WOS" we'll be looking for your comments in this column on a regular basis (don't let a four year absence happen again, hi! Right, Ernie?) (Si - ERC) Latest total finds me at 2,487 - still closing in slowly on 2,500 - I sure hope I can make this by the end of 1980. No luck with the recent TESTs unless it was WMPL-1380 who had the 1,000 EZ tone on fairly steadily from 3-3:30am on 3/17 beyond the time they were supposed to be on. The station IDed about every 4-5 minutes in this time frame. A thanks to them may be able to answer this. I do know a mention of 1,000w was in the ID, but their fading, along w/VSPD-1570 splash plus being at work didn't help, hi! Can any NRCers confirm WFLP were on late? About the only thing exciting here lately (if you can call this exciting) was my hitting a nice unsalted ice spot on one of the local interstate overpasses in January & denting a fender on my '67 GTO. Fortunately the only thing hurt beside the car was my feelings. Repairs have since been secured. You have to love Winter WX right, not to mention the work of the State of Ohio, hi! Speaking of Winter, this has been about the mildest I can remember here. No days below zero officially & no more than 5" of snow on the ground at any one time - that melted away four days after it fell! How could the Toledo area be so fortunate? Despite the decreased chances of good AM DX I'll still be looking forward to warmer weather. 73s.

STAN'S DX SEASON IS ON

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

I don't know where WQFP-940 is putting its signal - at noon today 94.0 had CRM w/WINE in the background - I'll have to try at SSS I guess. WVNH-1110 is advertising for help, so they're due back on the air soon. WITS veries are coming in droves - three this week from old reports. WUTQ verie also, & WTMR-1150. WDLY is offering bumper stickers - how about veries? Back to longer days, so no DX. (It's back to 'tilling the soil' for Stan - ERC)

THE NEXT MUSINGS DEADLINE IS NEXT MONDAY, APRIL 28 WITH DAVID YOCIS AT THE CONSOLE OF HIS TYPEWRITER FOR HIS MAIDEN VOYAGE. THAT ADDRESS AGAIN IS: DAVID YOCIS - 502 WEST McDONEL - MSU - EAST LANSING, MICHIGAN - 48824. THEN OL' ERN RETURNS WITH A MAY 12 DEADLINE. PLEASE DOUBLE SPACE, STICK TO 30 LINES OR LESS, & PUT YOUR NAME & ADDRESS ATOP YOUR MUSING.

ERIC'S GETTING SOME GOOD VERIES

ERIC LOY - 604 East Locust - Mahomet, Illinois - 61853

217-586-3255

DX has been great here with the following logged: "Ondas del Caribe"-1150, Radio Sutatenza-700, both WFROM & WJWL TESTS, & WRPM-1530. Veries: WMT-600, WUBE-1230, WDYX-1260, KLTR-1580 v/1s; KKJO-1550 v/1; WCKY-1530, WHAS-840, & CWB-990 v/q's. The v/s at KLTR said he'd wondered if anybody was listening. I am expecting GARY ATKINS and BILL HALE over in March. This is my first NRC out-of-town visit, & I'm pretty excited. Oh, another v/q, KOA-850. AM now stands at 439/48 (heard/verified) stations, & 11/3 countries. The Cuban on 600 is now using Radio Moscow's English Service to North America. Too bad. On SW here, all you get is R. Moscow, VOA, & the BBC. A rundown of AM countries logged: U.S. (a hard one), Canada (getting tougher), Mexico (10 stations), Cuba (10 stations), Costa Rica (2), Nicaragua (2), Netherlands Antilles (1), Dominican Republic (1), Belize (1)(every night), Bahamas (1), ZNS-3. When do people get ZNS-1? (During heavy AU CX -ERC), Venezuela (1), Colombia (5). Can anyone help me with this? I've got a National NC-60 here, & it needs some work with the tuning on AM. SW is fine, however. Congratulations to GEORGE WALTON & his wife for their new addition. Since Cuba's 600 has R. Moscow's EE, could DON LYNCH's UNID be a Cuban? ERC, you're right, the DX week doesn't end on Monday, Saturday mornings are OK too. WDYX-1260 has been testing their new XR, so a CPC letter is goin' there. KLTR-1580's gonna get one too. LYNN GILLIS, don't feel ashamed. I started on a GE digital clock radio, & I logged 13!! Has anyone got a verie from CJOB? Report has been out for 3-4 months, no reply. No way for me to get to the Convention, so you Easterners, stop by here if possible, huh? I have the BBC AM World Service sked, should I have Dad type it up, & send it to HQ? I agree with KARL JETER about Communications World. I think the SW section is always rather silly, though. It's time to go, so 7T(3333)(73's) and the ultimate in DX. And now, here's --(your buddy, Pat) -ERC

PAT GOT HIS KMJJ-1140 VERIE - THE HARD WAY!

PAT MASON - 64 Spring Lake - Mahomet, Illinois - 61853

217-586-2139 7:30-11pm ELT)3/29

Hello, everybody! It has been quite a while since my name has been in these pages. I haven't done much serious DX recently, as school has been hectic. I am currently taking six classes, and track practice prevails after dismissal. It has taken some adjusting as I had an extra study hall in the first semester, and only four classes. Oh well, so much for long-winded excuses, hi! Since my last Muse, I have received a much-prized verie from KMJJ-1140, & found out that I was the guilty party, as I didn't include my address in the report. (2/25 DX NEWS, in "We Get Letters"). Also a verie received from WAYC-1600 & WAKY-790. I still wait for replies from KQNK-1530, WILY-1210, & Belize-834. I haven't sent any reports out for a while, so replies are slim nowadays. Now on to some DX (from about 1½ months ago) on 1400, WJHO & WMSL surfaced, WMSL purely accidentally, as I was just casually tooling around the graveyards a week ago. That's eight on 1400. WACR-1050 s/off caught on the old Philco, quite sensitive. Actually, the only other notable catch was KRDS-1190. To this date, I can't understand why I can receive this station when KEX remains in hibernation. ERC, could you please tell me the address for them? My first try was returned by the good ol' U.S.P.O., after traveling all the way to Phoenix. (9809 N. Metro Parkway, Phoenix, AZ, 853-85021, according to NRC Log #5 -ERC)(If that fails, then try simply "KRDS, Tolleson, AZ, 853-55" -ERC) Other catches include WQEV-1580, WEAQ-790, WTRB-1570, KPCA-1580, WSKT-1580, XEMR-1140, KLE-1180. AM total is now 617, total AM-FM-TV is 1,035. On Tues. 3/18, GARY ATKINS and BILL HALE made their way to ERIC LOY's house; the four of us had a great time. Gary brought his Collins R-392, quite an impressive rig. Also he brought some of his prize veries from stations like KORL-650, KRDS-1190. I looked at the KRDS verie closely, hi! I couldn't remember any of the other ones, as there were many, most from the early 60's. Eric & I were supplied with back issues of DX NEWS dating back to late 1978. We had tentative audio from W. Germany-1593, not bad considering distance inland and the lack of a good antenna. They stayed for about 2½ hours, & Gary almost forgot his veries. Well I don't have much else to say. Sign-off time 12:42am, 3/29/80. C U whenever. 73's.

WGNU-920 IS NOW ON FULL TIME

SIDNEY E. MARSHALL - 7224 Pam Drive - Millington, Tennessee - 38053

Muse #4 is being written on March 26th with only a few scattered days at the dials, since my last Muse, due to my work #ked & other problems. In looking ahead, much to my sorrow, I see even less time for DXing until the last of April. In spite of the limited time at the dials I did manage to log seven new ones as follows: On 3/16, @ 6:58pm, KXK-1010 Mo. came in o/KLRA with end of GOS program, announcement to listen to it again at 5:30 on KXEN, folio by WX & temperature for St. Louis before dropping out right at s/off time. Then on 3/21, from 8:14 to 8:47pm, WGNU-920, Ill. was in real strong w/a local call-in program & was celebrating their first night to operate after sundown. I normally don't collect veries but I got caught up in the excitement that you could feel from listening to their call-in program, which naturally was heavy on this being their first night to start operating on a 24 hour basis after many delays & problems, so I dashed off a report so that I can have something in the ol' scrapbook to remember this special evening! Then SSS on 3/22 brought two more new ones, KNIR-1360, La. w.s/off @ 7:15 folio by KLYR-1360, Ark. s/off @ 7:16pm. Only then on 3/23 I finally logged a not-too-distant West Tenn. one, WFNL-1220, @ 6:25pm. Only three more to go & I'll have them all in this end of the state between the Mississippi and Tennessee Rivers. Two new ones on MM: w/local WMPM on a rare silent period, I caught WPTF-680, N.C. @ 5am 3/24, w/SSB, s/on, local WX, & into Earlybird Show before being covered up with static. Moving up to the other end of the band I logged WAMW-1580, Ind. @ 5:16am who with static. For a 250w station their signal this morning sounded like a 50kw! I got to go for now, so good DXing to all! LET'S GET THOSE MUSINGS OFF TO DAVE YOCIS FOR HIS 4/28 DEADLINE. PLEASE DOUBLE SPACE!

THE REAKS MYSTERY ARAB ON 1577*

NEIL KAZAROSS - 30 King Philip Road - Pawtucket, Rhode Island - 02861

All in all, I must say it's been a better season for DX than was expected. This year domestic & TA DX were helped by a lack of AU CX. Many nice Western catches were made by DXers in Illinois & farther East, especially on MM's. March provided several days of excellent TA DX. The best were 3/23-25 which provided TA CX that reminded me of what I've read about TA CX several years ago, when the sunspot count was low. The best of what I heard were Saudi Arabia on 1512 & 594, Egypt-1107, Spain-1179, Gabon-1554, EAJ-17 Murcia. I heard a harp JS on 1224. It's seven cords played twice (maybe Bulgaria?) I also heard a mystery Arab w/AA chanting on 1577 which is not an ITU frequency. Fade time suggests Libya. Anyone know who it is? I feel that the R390A, which I currently have the pleasure of using, is the best set available for split DX. The HQ180A is good but the R39CA is better for tight splits and seems to provide slightly clearer audio on all splits. It's also next to impossible to overload the front end of the R390A. On my former HQ180A, WADK-1540 in Newport caused slight overloading of the front end using the West Beverage at Narragansett. This doesn't happen with the R390A. Additionally, when MARK CONNELLY & I were at Narragansett, R.I. for our November DXpedition, we separated R. Vigia-1329.5 from 1330 w/the R390A but couldn't do it with the HQ180A. I rate the audio from both sets of equal quality. I'll be at YAD Memorial Day for a super time - how 'bout the rest of you Eastern & Midwestern members? 73's from Neil Kazaross, the world's worst typist, hi. PS- Do any of our LA members know who the station on 790 is w/many cuuu's? This has been heard by ERC & myself.

MARK ALSO NOTES GOOD TA CX IN MARCH

MARK CONNELLY - 30 William Road - Billerica, Massachusetts - 01821

Greetings. I hope all took advantage of the good TA CX which were in effect through most of March. Phone calls from RICHARD ECKMAN & NEIL KAZAROSS indicated that many rare stations were heard, including Arabians on 594 & 1512, Russians on 1113 & 1386, and Vatican-1530. I'd rate my best catches of the period as being the Czech on 639 & the new Ireland outlet on 612. The openings extended to the West Coast, so no U.S. DXer with good gear & a quiet location can reasonably say that it is impossible to get TA's. Newest free offers from the NE DX Info Service include, by popular demand, the metro-Boston AM transmitter location map. Other DXers are hereby encouraged to make up & to distribute transmitter location maps of their local metropolitan areas. Another item of possible interest: DX from St. Lucia in 1977, by Sam Brainerd. Most of the report is a daytime bardscan. Send me an SASE if you want the Boston map or the St. Lucia stuff. As warm WX settles in, many will get into outdoor activities, shelving DX until Autumn. Hopefully, some members will submit vacation-trip loggings to spice things up during the "Summer DX doldrums." 73.

RAY SENDS TWO MUSINGS - OUR DEADLINE DATES WERE CONFUSING!
RAY ARRUDA - 47 Burt Street - Acushnet, Massachusetts - 02743

DX has been limited to SM's & MM's with the following results for March. All times are A.M. EST. WNJR-1430 TEST was heard, but TESTs from WGIG-1440 & WJAZ-960 were not noted here. MM 3/5- WCAU-1210 off for second MM in a row. WLAM-1390 weak u/WFEL 1;22-1:28 w/mx, IDs & station promos. WIBX-950 running late w/Big Band mx 1:52-1:56. Did they go AN? MM 3/10: CJVL-1360 was noted w/good signal in WDRC null 1:28-2:06 with pop mx in both EE & FF, FF announcer, so a report taken on them. During CJVL reception, someone was running ET TT 1:35-1:55 w/ID # 1:54 $\frac{1}{2}$ that sounded like WPMW or WIAW, then location - whowazit? WIP-610 off for a while but @ 1:10 was "returning to the air after a brief period of maintenance." MM 3/17: WTIC-1080 noted off. WITS-1510 has been taking MMs off the last several weeks so maybe a new SP here. KMNS-620-TEST tried but not heard. WHMP-1380-TEST did make it thru WENX and quite well at times 2:30-3:07 w/VIDs, mx to 3 when 1,000 cycle tones replaced the mx. I tried for WHOL-1600-TEST next morning 3/18 & they made it with 400 cycle TT & IDs every five minutes from 12:45-1:1 s/off. MM 3/21: WNEW-1130 off part of morning, back around 3:15. WABC-770 noted ETing w/TT @ 3:37. The big event came with reception of KHM-1060-TEST w/CIDs, bits of mx & one audible VID # 12:53 $\frac{1}{2}$ CST. ERA & EEC got 'em too. Tragedy struck in West Orange, N.J. as ELLIOT STRAUS blew up his antenna while trying to log KORL! Verries are back from WGOC-1090-TEST, WWOB-1260, WIRK-1290, CJVL-1360 & WKMC-1570, all v/1's. Also WMPL-1380-TEST & WHOL-1600-TEST making Pa. verie total 57. Totals here are now 1,232/760. MM 3/31 went like this: TESTs from KCEE-790 & JWEH-860 were tried but not heard. WPIC-790-TEST did make it with fair signal 2:30-2:52 w/VIDs, CIDs, mx & 1,000 cycle TT. WMOO-1550 was at it again w/loud ET 1:22-1:27-plus. 790 turned out to be the good frequency with reports taken on three stations in a span of 45 minutes (2:22-3:01). CFNW-790 weak 2:22-2:36 while waiting for WPIC's TEST, noted relaying CRCB-570 w/CFCB IDs, NX, MoR & Nfld. TC's. Then report taken on WPIC 2:30-2:52. During WPIC TEST from 2:42-3:01 a report was taken on the weak signal of WAEB-790 Allentown in CKSO/CPNTN WPIC jumble w/79 WAEB IDs, Th40 mx, NX on the Bill Sheridan Show. KNIX-1580 was in well w/fades 4:10-4:20-plus w/CAW & "KNIX Arizona Country" IDs frequently noted. I mistook this for WQFP at first. Anyone needing Arizona should look for this. ERC has informed me by card that the new Webster station WQFP-940 is on RS & has been since 3/29. They are weak all day here & were first noted during the day on 4/1. Log says WQFP but the information operator see phone listing is for WQFP. We'll see you all at YAD in a few short weeks! 73. (v/l back, definitely WQFP-ERC)

CONDITIONS ARE GOOD AROUND TORONTO

TIM KERFOOT - 189 Cedarvale Avenue - Apt. 505 - Toronto, Ontario - M4C 4K1 3/24/80
CX have been pretty good for reception from the East recently. I managed one new one, 3/16: WBET-1460, 6am s/on. Several tentative new catches have been noted on the Superadio as well, but no definite IDs. 73.

GET THOSE MUSINGS REPORTS OFF RIGHT NOW TO DAVE YOCIS FOR HIS MONDAY, APRIL 28th DEADLINE.

LOTS OF DX IN LINCOLN

3/27/80

NEIL G. ZANK - 623 Lyncrest Drive - Lincoln, Nebraska - 68510
The past 7-10 days have brought a lull in my hearing any new DX, so I will take time to catch up on a little paperwork & Muse. I am sure I can find some DX in the log to Muse about. 2/20- Unn KEMM-1510 Marshfield, Mo. noted 2:10-2:15am w/TT & ID & off. 2/23- New catch in KNDN-960 Farmington, N.M. in well 2:14-2:15am on ET of ID, varied TTS & OC. MM 2/25 noted CHEX-980 Peterborough, Ont. for only the second time, 2:20-2:25am w/pop mx & ID; WLCY-1380 St. Petersburg, Fla. noted IDing out of OC @ 2:51am; WEBQ-1240 Harrisburg, Ill. for the first time heard 3:36-6am on RS-sounding ET of CAW, TCs & finally a full ID @ six. 2/29- Unn KSMN-1010 Mason City, Ia. noted ETing w/TT 2:05-2:10am. SSS, WLKE-1170 Waupun, Wis. 6:21-6:30pm w/promos, CAW into s/off. 3/1- One of my better-liked catches this season in WBRR-1580 Travelers Rest, S.C. on ET of TTS & OC 2:05-2:23am. 3/2- Report taken on WHA-970 Madison Wis. 6:45-7pm with the "Great Decisions" program into s/off. 3/3, I noted rarely heard KENN-1390 Farmington, N.M. @ 1:35am w/promo for election coverage on "Ken Radio"; CJWW-1370 Saskatoon, Sask. for another try for varie 2:12-3am w/CAW (format change from log) & several spots. 3/4- Report taken on KRRR-1360 Ruidoso, N.M. on r/c per list. 3/5- A surprise in WIXX-1590 New Richmond, Wis. on ET of rock mx & s/off ID 2:45-2:58am. 3/6- Relog for a report to KWKA-680 Clovis, N.M. dominating 2:25-2:40am w/CAW mx & IDs. 3/11- Unn KNWC-1270 Sioux Falls, S.D. noted ETing w/TT, OC, ID 1:24-1:27am; CKBO-790 Sudbury, Ont. for the first time 1:50-2:10am w/pop mx & CKSO NX on the hour. 3/12- Pleasing new catch @ SSS, KATQ-1070 Plentywood, Mont. w/pop mx, IDs & s/off addition of news, due to a BOB MCCOY tip. 3/15- Rare CKNS-960 Kingstone, Ont. dominating with T-LQ mx @ 2:15am. 3/16- WUPR-1330 Greenville, Miss. w/CAW 3:35-4am in KFH's SP. 3/19- Loud TTS & OC on 630 turned out to be only KMAC 2:07-3am. 3/25- XEK-960 in WROM-KSD WFRH WERH WLKE KNDN WBBR WIXX KATQ & KWKA. I received a new Radio West MW-1 loop with 22 $\frac{1}{2}$ ferrite bar this week. What's happened to ROB KEENEY?

DX IS FAR FROM MUNDANE IN MUNDEN

GARY HOUDKE - Munden, Kansas - 66999

It has been a while since I last used. On Dec. 31 WLAQ-1410 Rome Ga. good @ 6:23am, then KRIG Odessa, Tex. s/on @ 6:24. That same morning @ 7:11am a man talking in SS on 1180, good signal. Shortly later I tuned to 1190 to hear singing in SS with an accordion, fair signal. Jan. 21 WNDE-1260 Indianapolis ID @ 5:41am, weak signal, first time heard this Winter. Jan. 28 2:36am, mx, then ID, KCTA-1030 Corpus Christi doing routine testing, good signal. On Jan. 30 @ 10:57pm the announcer on WSM said he has received letters from distant listeners including Alaska but his most distant listener was from New Zealand. Feb. 11 on 1220 I heard music, then @ 5:31am telephone number mentioned from a station in Southern Alberta. This must have been CJOC Lethbridge. Feb. 12 about 5:25-5:30am KFAB-1110 was off the air. Announcer said station was off for a few minutes for maintenance. Feb. 25- CKJS-810 Winnipeg 6:08am ID fair, but not enough for a report. Mar. 17- CFRN-1260 Edmonton local NX, SX, WX, weak signal in QRM @ 5:03am. Mar. 21- WKEW very good signal @ 2:39am. This is the strongest signal I have ever heard from them. KOMA was off. Verries, cards from CHUM-1050 Toronto, KLIF-1190 Dallas, also nice letters from WKHQ, Hibbing, Minn., WLAQ-1410 Rome Ga. & KNCY-1600 Nebraska City. That's all for now.

GARY VISITS WITH ILLINOIS NRCERS

GARY M. ATKINS - 2200 West Burnett - Louisville, Kentucky - 40210

A recent vacation trip to my sister's house in Rantoul, Ill. turned into a mini NRC Convention. As usual, I visited with GYDXA editor BILL HALE at WRTL-1460. Later that week Bill & I drove over to Mahomet to meet with two recent NRC joinees PAT MASON and ERIC LOY. It was a most enjoyable visit. They are fine young gentlemen and both proved to be very knowledgeable of all aspects of the DXing hobby. I have added a few stations to the log book since my last musing: KEYE-890 on 2/24 @ 7:15 s/off thanks to a tip from LYNN GILLIS. 3/2- WFRL-1570 @ 6:50pm; a big surprise in KAGE-1380, Winona, Minn. w/s/off @ 7:15. 3/3- I caught the last ID from the WNRW-1430-TEST @ 1:30. 3/10- WMAL-630 @ 1:35am. 3/16- KWOA-730 w/7:30 s/off. 3/30- WRSW-1480 @ 6:42pm, and WAYT-1510 w/s/off @ 6:45. As my 16th year as a DXer comes to a close I count 1,565 stations heard. Top ten states are: Tenn. 98 stations, Ky. 84, Ga. 81, Ala. 76, Tex. 67, Ill. 64, Ind. 58, O. 56, Va. 56 & Fla. 51. Best frequencies - 1580 (14 stations); 1570 & 1550 (32); 1380 & 1340 (29) & 1560, 1440, 1480 (28). The IPC has vowed to remain humble and not mention the recent college BKB game of minor importance in Derby Town. For you T-shirt freaks, I may send a few T-shirts commemorating the occasion to LOS ANGELES for auction at the NRC Convention. 73.

NIEL'S BACK HOME FROM HIS SOJOURN TO OHIO

NIEL WOLFISH - 15 Donwoods Grove - Toronto, Ontario - M1N 2M4

3/20/80

I returned from Shaker Heights in one piece, not having done any real DX. I did manage to listen to WPVL-1460, WDOE-1410, WBZU-1570 & others on the bus, & heard TTS on MM 3/17 on 1240. Also I hit the post office to purchase 70 Olympic stamps for return postage purposes. Unfortunately I had no opportunities to see other DXers, & I had little time to tune the TRF. Maybe next time. I was quite shocked to see STEVE MILLER actually think that ERC was stepping down from his editorship, in 3/17 DX NEWS. I suggest you read DX NEWS more carefully, Steve, hit. Incidentally (an open question to ERC or Mr. Miller) does "Vol. 3 Ko.8" signify the number of Muses you have sent in? Well, hopefully 11 days is enough time to reach ERC for the deadline. Although I live in Toronto, I can claim to live in the Borough (now city) of North York and in the Community of York Mills. That's it for now, so 73's and may we all hear something new soon.

HAVE YOU MADE YOUR AIRLINE RESERVATIONS TO LOS ANGELES YET FOR NRC'S LABOR DAY CONVENTION?

ANOTHER "TRAVLIN' MAN" RETURNS TO OHIO

BRAD LOVETT - 421 East College Street - Coldwater, Ohio - 45828

I'm back in Ohio after seven weeks in Florida. Quite a trip, & the sunshine & good WX were great for the most part. After returning to the dreariness of the current WX system plaguing Ohio I was about ready to turn around and go back to Fla. but I looked at my wallet & found out I couldn't afford it, hi! I drove there & back so I sampled propagation all over. It's strange going from Ohio where every frequency is full to Ky. or Tenn. where large sections of the dial are blank. Even though the Southern dial is clear of locals, I was not impressed with it as a prime DX location. Florida's very interesting, with the water path on one hand and not the greatest soil conductivity inland. That's why WAWF-1600, Key West made it into Sarasota but many inland stations did not. Cuba is everywhere on the dial, both day & night. In Miami it's like being in Havana, both from seeing all the signs in Spanish, and LA style buildings, to the AM dial, which has more SS than English. Big clears from the E & Midwest are usually QRMed by latins, & in Miami none of the Northern stations made it when I was there. Format info: WCTT-680, Corbin, Ky. is CVM all times, not T-40 at night. WAKA-1390, Gainesville, Fla. is T-40, non-IDing as 14K. WQAM-560, which I'm told used to be the big rocker in Miami has switched to CVM. WMEM-1490, Miami Beach, has introduced a format called "Gold Soul 15", an oldie soul format to appeal to Blacks in their 30's & 40's. WADY-1320 (ex-WGMA) is adult contemporary, and call themselves "The Lady, for Singles Only." I guess that means you married guys can't get a verie. WYOU-1550, Tampa, is now SS. WQBA-1140, Miami, the big Spanish speaker has an all-LX format in morning drive time called "Radio Reloj" with the ticking clock and news stories read over it. I wonder where they got the idea from? Speaking of Cuban radio, or Russia via Cuba, or whatever, here is the correct sked for 600. 3pm-12 midnight ELT, R. Moscow EE Service. Note s/on is 3pm, not 6pm. Voice of Cuba from 12.6am & Moscow again for the morning rush (guaranteed to put you back to sleep) 6-9am. There appears to be an attempt to jam the Moscow broadcasts in S. Fla. A jammer was noted over them in the West Palm Beach area on 3/26. It was unstable in frequency, moving from 600 to 605, then to 610, where it did a number on WIOD, obviously not a government jammer from the U.S.A. With its sound, I can't figure what it would be other than a jammer, though. Perhaps a private religious group wanted to block Moscow out. A West Coast Florida bandscan will be included next Muse. 73.

DAVE HAS A 1400 FIESTA!

DAVE FOX - 333 Douglass Street - Reading, Pennsylvania - 19601

During the last couple of weeks the graveyards finally got some attention & some new stations were logged. On 3/24 about 2am a logging was finally taken on WLH-1400. About an hour later WWIN-1400 was heard. On 3/29 just prior to 6:45pm WCOS-1400 was logged for the first time. On 3/31 unu CKCB-1400 was heard topping the frequency from about 6:20 to 6:25pm w/SX & spot for French Motors in Barrie. Later on 3/31 drom 6:40-7:00, WPCE-1400 was logged & reported with their RELprogramming. And finally, back on 3/17 from 6:24-6:27pm, WSMY-1400 was heard topping the frequency. Veries are back already from WLH, WSMY & WWIN. Local WRAW-1340 skipped their usual SM SP on 3/16 & 3/23, but were noted off on 3/30. Only unu WHAP-1340 was heard them. Also on 3/30 all micro-wave relay KAA-22 "Serving WBT in Charlotte, N.C." was heard broadcasting rock mx & giving "K-94" IDs on 1110 from about 5:15-5:52am. It appeared that a WBT OC was on at the same time. On 3/24 DX TEST of KEYM-1060 was heard, but on 3/31 TEST from EWHO-860 was not heard. MM 3/31 was not too productive. Unu WGTO-540 was booming in with "Macho Man" at 1:50 with full ID @ 1:52 requesting reports be sent to CE Frank L. Berry. Unu but unverified WCLS-1580 was heard testing w/mx @ 2:30 w/ID @ 2:36. Another try for verie outto this guy. At 2am an interesting SS ID popped up on 540: R. Tropicana in Guayaquil, Ecuador. Only other recent report is out to WMYB-1450 which floated over most everything from about 12:30-1:30am 4/1. Veries include WHEF-1270 which has been heard quite well during WXYZ SPs, VLLH, WWIN, & WSMY, all 1400. Recent reports not answered yet include WYGO-1330, WPRZ-1330 (ex-WEAW), WSGO-1140, WDAF-610, CRML-610 & WELV-1370. ERC, I received my CKO-1470 verie after a very long wait from Paul Kudla, CE - but the letter was forwarded to him in Toronto from Montreal. My suggestion would be to write him directly at Canada All-News Radio Limited, 65 Adelaide Street, East, Toronto, Ont. M5C 1K6. But give them a month or so to answer your reports, hi! It must be a slow process. (Ha Dave, I got a v/l from CKO signed by a David Davis - thanks anyhoo! -ERC)

LET'S WELCOME BACK A LONG-LOST-LAD!

RICHARD NALL - 1218 Innis Court #1 - Louisville, Kentucky - 40204

Hello out there. I've just re-joined the NRC after an absence of several years. I've BCB DXed since the mid-60's & have belonged to both FRC & IRCA at the same and different times since then. I've owned lots of radios & built lots of loops. My first radio was a Knight Kit R100A my father constructed. Second radio was a Hallicrafters S-108. Also owned is an old 1937 Philco two bander around the same time. In 1968 I owned my first Hammarlund, & things began to perk up for me. It was an HQ-129X. Also I built my first loop around this time, a 4 $\frac{1}{2}$ ' square box loop. I used the HQ-129X into the 70's. When I got my Novice ham call in 1969 I used it as my RX. Around the mid-70's I bought an HQ-160 (my super TA RX!). After the 180, I owned an HQ-140, then an R392 I bought from GARY ATKINS, of Louisville. At this very moment I'm the proud owner of a Drake SPR4 which I bought from DICK TRUAX a few weeks ago. It's a great receiver & well taken care of. When I first talked to Dick over the phone about it, I knew it had to be a good one. He keeps all his gear in top shape! I built a 4' square box loop shortly after buying the SPR4. My BCB totals are 900 heard, & 489 verified after 14 years of BCB listening. My ham call is now WDXFKE & I'm lookin' for a XR, preferably a Drake 2NT since CW is all I need to be happy. I can't get over all the DX I'm hearing on 10, 15, & 20 meters. I'm 28 years old & work out of local construction union. I don't work much in winter & have time for DX. I enjoy Mothball Memories very much. I have

(R. Nall, con'd.) some fond memories of my own, but they only go back to the mid-60's, hi. But since 1966 the BCB has changed drastically; so many ANers now. I even miss that Cuban buzzer around 1160 that I used to hear any evening back then. And the music the stations used to play by Ohio Express, Turtles, Beatles, Mamas & Papas, etc. 73.

*MILLVILLE'S ANSWER TO "THE VILLAGE IDIOT"

4/1/80

Howdy! I'm back after a February slow-down, hi! DX has blossomed now that Spring is here & I am diving in head first. Among the tons of things I'm doing are a letter to NEIL ZANE about CPC letter writing, six verie reports going out, & even some MM, & other mornings, hi!, DXing. On to DX. 3/13- WSAN-1470 w/XX, "1470 Info-Center" ID. 3/14- Two Com. stations WICC-600 u/WIP & WPOF-1410 o/u WDOV @ 6:39am. 3/19- Some good SSS DX w/ WNTN-1550 w/"Solid Gold Radio" IDs & verie received from them says so too., so a format change folke! Also 3/19, WMLB-1550 & WDEW-1570. 3/23, after Saturday Night Live, WDRC-B 60 way u/ WJBZ, w/Bob Seger's "Fire Lake" & legal ID @ 2:01am. 3/24- Some more good SSS w/WARD-1540, WJDM-1530 & WNTN making strong appearances. Then probably one of my best catches, the WPIC-790-TEST 3/31. What a great way to end a month, great unless you like sunny weekends, hi! Also on 3/31, a strange one, WIXY-1600 on as the Log Updater says, the CP is on, but IDed as: "WHUY, Springfield & WIXY, East Longmeadow". Who is WHUY? (I think that he must have said 'WAQY'; their FM in Springfield -ERC) I can't find them in any AM Switch or Updater. For ERNIE COOPER & anybody else interested, I have & can get tons (not literally, hi!) of Canadian postage as I am on Canada Post's mailing list for new stamp issues & I can order anything from one stamp to sheets. Only problem is you MAY have to wait about three weeks for an order, sometimes more, sometimes less. If anybody is interested, write. So, till we meet in DAVE YOCIS' Musings column, 8.5440037's. (square root of 73).

HE GOT HIS WBCO-1540 VERIE THE HARD WAY!

KERMIT GEARY - R. D. 4 - Box 321 - Walnuport, Pennsylvania - 18088

3/31/80

The recent decline in reception CX & the lengthening days foreshadow the close of another DX season, my 55th! This has been an unusual season; too good to qualify for the type of Auroral reception expected during sunspot maxima inasmuch as a number of nice TA catches were logged, and, conversely, not bad enough to hear a dialfull of IA's inasmuch as there were no Auroral blackouts with SS stations in control of every frequency. It will be interesting to find what the 1980/1981 season has in store. Very few loggings were made during the past month, as follows: 3/2- WDLW-1330 on AN sked w/c/w mx, 2:30-3:2am, mixed w/WFBC. 3/12- Tirana-1395 w/a strong signal in the Spanish Service, 6:15-6:58pm s/off w/the "Internationale". 3/15- CFBK-630 o/WMAL w/pop mx, 7:05-8:55pm, IDing as "Music Radio, CFBK-CFBQ". 3/17- Only ten seconds tone heard during the KANS-620-TEST sked, nothing else because of strong WHEEN/WTMJ QRM. 3/30- WKRR-1330 (ex-WJPS) on AN sked w/c/w mx, 1:50-2:50am, mixed with WFBC. Veries have come from WECO-1540 (w/CM) & WXC-1380, letters; KSUD-730 on CM; and WEVL-1600, WMLO-1570, WKYG-1230, WNIC-1310 & WWKR-1310 via PP/cards, the last four on f/ups. WECO is an interesting case. They replied to my report, saying that I couldn't possibly have heard them because "the signal is pulled in on its eastern contour to protect 1540 kHz stations in Cleveland (WBAB), Niles (WNIO) and Ulrichsville (WBTC). You may have picked up one of them." A CM was enclosed to prove the point. I responded with a copy of my tape of their signal, & promptly received the following letter: "Dear Kermit, you got us! Congratulations on fine-tuning through the atmosphere to reach all the way to Bucyrus, Ohio. This letter verifies that you picked up WECO on February 16, 1980, just before 6:00 p.m. Sorry we doubted you before...." Their identification of the announcer's voice was the clincher. Just one of the things that makes BCB DX so interesting. I wonder how many non-veries result from some stations' refusal to believe that signals sometimes do the "impossible?" Congratulations to DAVE SCHMIDT on taking over the job of editing DDXD. He has a hard act to follow, but the column looks great! Good DX to all.

EUROPEANS ARE BOOMING INTO TORONTO

JEFF FALCONER - Box 63 - Clinton, Ontario - N0M 1L0

3/30/80

DX here has really slackened off during the month of March, however I've heard some good TA stations. Here's the rundown on what's been heard: 2/25- WJWL-900 in with good signal on DX TEST. 2/27- I caught mention of WBLV in passing 1600 at their 6:14 s/off. 3/11- England-882 was booming in with soft mx @ 7:54pm. 3/15- TA hets all over the dial. England-1053 ws heard w/soft rock //--1089 @ 8:37pm, west Germany-1422 at excellent level w/rr, Roy Crinson, etc. @ 9:15pm, & W. Germany-1269 also heard o/1270 domestics with soft mx @ 9:32pm. 3/17- France-711 was in //--1377 w/man & woman in FF @ 12:21am. 3/24- KHYM-1060 DX TEST made it w/fair signal o/WNOE. New CKAN-1480, New Market, Ont. has been heard testing several afternoons here testing w/MoR or OC, so maybe it will soon be on RS. OC is also heard here on 1030 days, maybe ET5542 as reported by INT in 2/25 DDWD. That's it for now so 73.

HE HEARS OUR TESTS BEST

4/1/80

BILL TOWNSHEND - 4500 Connecticut Avenue N.W. #901 - Washington, D.C. - 20008 202-966-8046

I got some WJAZ stickers & a WJAZ sweatshirt from Sam Dudas, WJAZ CE as a result of hearing his DX TEST (phone QSL). I also heard DX TESTs from WMF-1380, WHOL-1600, KHYM-1060, & WPIC-790 (TTs on WHOL & WPIC, CW ID on KHYM and CE's voice on WMF). Aside from the TESTs, DX is on the down turn despite several SSS sessions (of course it is late March. DX may improve temporarily in early April with new s/off times.) I'm too lazy for any SRS DXing, hi! I usually get up around 6:50am for work and at 9:30 on weekends. C U N 35. (27-1) + (7x262,657), which is 73 and good DX de WPT.

THE NEXT ISSUE WILL BE COMING DOWN THE PIKE IN THREE WEEKS. BE SURE TO HAVE SOMETHING IN IT!

DAVE'S JOINING THE THESPIANS

DAVE ARBOGAST - 3851 Porter Road - Rootstown, Ohio - 44272 216-325-2807 3/20(my birthday!)
 ::::::::::::::: Hi there, DX fans! As Ernie can see, my Muse has a better quality than the last 'cur I splurged and bought a new ribbon for my Smith-Corona today. Well, not much is happening in the DX department, but in the verie dep't., WKBZ verified my report dated in November w/no f/ups sent. Ain't that interesting? Well, I got myself into another play at school. We're doing "L'il Abner", & I play the Colonel and a Russian Commentator and American Commentator, but then all the announcements would be in my voice, which wouldn't sound very good, so my good friend Al Beebe at WNBC (10pm-2am) is doing one and a friend of mine here in Chic is doing one. Dates are May 9 & 10 @ 8pm at Southeast High School. See you there, hi! Seriously, if any of you are interested in seeing yours truly in this wonderfull theatrical production, contact me. Sorry to miss the Green Issue of Musings, for I am Irish to an extent, but I ran out of stamps, & didn't get it mailed till Wednesday of that week. I usually muse every Monday & have it in Tuesday's mail, but a day or two can really mess you up with a deadline. How 'bout more of you contributing to Ernie? He needs the work up there on the Cape, 'cause EVERYONE knows that CX are terrible up there, hi! Well, gotta run, as I'm running out of room. 73's and good DX to one & all! Vivo NRC! And ERC, hi -ERC)

HE SETS A HIGH GOAL FOR HIMSELF

LYNN GILLIS - Box 105 - Bloomfield, Kentucky - 40008

:::::::::: Hello to all. This is my first Muse since returning to Ky, so I've got some DX for you. I'll start with the 3/4 catches. WDGY-1130, WMCP-1280, WAOK-1380, KQYX-1560, WEMP-1250. 3/6- WPRT-960, WJPR-1330, WQAM-560. 3/8- KLCN-910, WEPG-910. 3/11- WNXT-1260, WHON-930, WJBY-930, WONE-980, WJPC-950, WATV-900. 3/13- WEAL-1090, WSOC-930, WNCO-1260, KHQZ-900. 3/14- CKOT-1510. 3/15- KCTA-1030. 3/17- WBEN-930. 3/18- WYOU-1550, WIND-560. 3/19- WTVE-1590 & WHBC-1480. 3/20- WSAI-1370, WKAM-1460, WOBL-1320. 3/21- WHOT-1330, CFOR-1570. MM 3/24- WMES-590, XEJ-970, WKZ-590, WLBZ-1530 w/ID only @ 12:30am right after CKY s/off, must have been on ET. SRS: WSJS-600, WJGW-910, WFRL-1570. Totals are now 340 heard, 62 verified. I'm not a foreign chaser, but will take it if it's there. Notes at this shack - I've set a goal to hear my 500th station by 11/15/80. I have 160 stations & less than eight months to go. I should make it. I came along at the wrong time to start DX with the new 9Khz & all going around. By the time I get my driver's license (in two years) so I can get to the LPC sessions, DX NEWS will be published elsewhere, probably. But I couldn't be happier with what I've accomplished so far. See ya later, & 73 to all. (Pleasee double space, Lynn? -ERC)

ARNTIM'S COMING BACK TO CANADA SOON

ARNIM LITTEK - Rosenhagen Str 56 - 2000 Hamburg 52, West Germany

::::::::::: Hi gang! I'm having a whopping good time, as usual. Sad to say, however, I'm finished here at Norddeutscher Rundfunk in five weeks, & will be back in school as of 4/28, in Waterloo, back in ol' Ontario. That means the end of 1) a good holiday, 2) a lot of my information sources, 3) some really fantastic DX equipment. Such is life. I may go back, I don't know. Plans, before then, though, include visits to JUERGEN TROCHIMCZYK down Konstanz way, way down South (relative to Hamburg) & is probably full into Spring, and we're still awful nippy up here. Naturally, of course you're going to hear about that later on. DX was fantastic the last time I pulled an all-nighter here. CHUCK HUTTON has all the gory details, but I logged my first TAs on the night of 3/11-12, such stuff as CBN-640, CBGY-750, WCAU-1210, CJBC-860, & a boatload more. I was quite excited for a good six hours, while all this was going on. That's probably the hard way to get TAs here, with all the little 50kw stations over there, as opposed to NA where all the TAs are 100kw & over (all the regular stuff, that is). Funny though, from all my locations in Ontario I still haven't logged any TAs. Duh! I've got lots of plans, some of them crazy. I'd just love to make it to the Convention this year, so I'm working on a holiday, when school finishes in August, which consists of hitchhiking Out West, from the Toronto area, to Edmonton, then to Vancouver, then S to California, in time to make the Convention. If anyone in So. Ont. has similarly crazy ideas, & three weeks' free before the convention weekend, let me know. Drop a line to my parents, at Box 771, Port Elgin, Ont. NOH 2C0, as I don't yet know what my Summer address is going to be. To end this on DX notes, if you hear Grand Ole Cpyr on 1140, don't be so sure you've got North America. R. Luxembourg carries this LIVE via satellite, or so they've advertised. With 1300kw, more people than just BOB FOXWORTH should hear this monster. The German listed on 1323 from East Germany very seldom broadcasts in German. It's a R. Moscow Foreign Service outlet, between Hamburg & Berlin. SAD to say, the ever-present pirate, Radio Caroline, went down in a storm last week. I'm sure they'll be back, but who knows when or where? No more pop on 963. Time to call it quits - may be one more Muse from the land of Volkswagen. I hope so. (Us too, Armin -ERC). 73s.

BILL'S ARRANGED HIS FIRST DX TEST

BILL REGAN - 110 Craddock Street - Syracuse, New York - 13207

::::::::: The only new DX of late was WCZY-1500 u/WTOP w/EZL mx w/WOLF-1490 off AN. One other DX: Unid on 860, MM 3/31, 1:02-2:03am, definite ID @ 1:03, but inaudible due to fade (Murphy's Law, hi). Seemed to loop E/W, but that leaves quite a few stations. I hope everyone received, or listened for the WECO-940-TEST; it is the first arranged by me, but apparently they TESTed four or five years ago. Anyway, they should get out good. Carl E. Stump, CE, said they have recently moved into new studios, and now control their transmitters by remote control. Paul Rickert (GWDXA) & I are presently working on all stations on 690 & 540 to see if any of them would consent to a TEST. I received a nice post card from WSTX-970 V.I. verifying my 9/4 reception. He asked if he could have a copy of the tapes from reception, so I'm sending them to him. 73s & good DX. (That'd make a SMASHING DX TEST, Bill! -ERC)
 HAVE YOU MAPPED OUT YOUR ROAD ROUTE TO LOS ANGELES YET FOR THE LABOR DAY NRG CONVENTION?

JOE GETS SOME GOOD ONES IN A NOT-SO-GOOD MONTH

JOSEPH W. BRAUNER - R. D. 1 - Box 153 - Punxsutawney, Pennsylvania - 15767 3/31/80
 :::::::::::::: March, never a super DX month, was even worse than usual this time; many dialing hours found mostly routine stuff with no unusual CX at any time. Only new loggings were on 3/2, HJKO-1140 thanks to a tip in an ERC Muse; during WRVA SP @ 12:55am. 3/5- WNIC-1310 on RS @ 2am, third call for him. I somehow managed to miss WNL. 3/7- At long last WPMH's f/c made it on 1010 u/Toronto/NYC from 1:04 to 1:10am w/TT. On 3/10, 4JCD-1325 in fairly good for a time 10:20-10:40pm. 3/17- "Dominican" on 1550 heard clearly for a few minutes 1:55-2:00am. WXL-1600 finally heard on 3/17 @ 3am; and last, thanks to the CPC, my second nice Texas catch, #226 from the Lone Star State, KHYM-1060, who was just about even w/WNOE, CID's bombed in but only three VID's were readable in the hour. Other TESTs, WCRs, no trace, KVNS nil, all WTMJ. WRCM & WJAZ unu & not checked. WJWL hopeless, presently CHML signal has local strength here. MM 3/31, CX poor, 860 Utah (unru) a puzzle, 2:00am group sing, later EE talk at length by M's, faint & no ID's noted tween 2 & 2:30. (I believe that was XEMO, Joe - ERC). WPIC-TEST badly jammed by WTAR despite being the 790 daytime local here. As usual CID's bombed but voice not too easily heard. This one was verified from Western N.Y. in 1959. If Radio Shack puts the Eumpler 4NKS on the market I think I'll try one, the A2515 died this morn while checking 860 but came back to life after I jiggled the band switch. All but the BCB band have been dead most of the Winter. 73 & good DX.

BIG NEWS - WNYR CHANGES FREQUENCY & HOURS

JERRY BOND - 143 Burwell Road - Rochester, New York - 14617 4/3/80
 :::::::::: Hello everyone. The DX continues to be pretty decent this Spring so I thought I'd get another Muse in before I get too far behind in reporting it. Before I get started there is some big local radio news that I want to tell everyone about. That news is that WNYR-680 is in the process of moving to 990 as I am typing this. They announced the move yesterday (4/2) & as of 6:45pm on Fri. Apr. 4th they will become a permanent fixture on 990 where they will be on 24 hours a day w/250 watts. The main reason for the move was to get away from the persistent interference to their signal in this area by CFTR over the past few years. Another reason was that they wanted to move to a frequency where they would be able to broadcast fulltime. Still another reason is that all the other AM's here are between 950 & 1460 & they were kind of isolated down on 680. They have been on the air the evenings of 4/2 & 4/3 from sunset to sunrise on 990 conducting what they call "listener tests". I'll be interested to see if anyone heard them. I'm a little surprised they would be allowed fulltime operation on a Canadian clear channel when they are so close to Canada. I've never seen any application for a frequency change so this is apparently something that has been approved very quickly. So much for that - on to DX. 2/9- I finally logged KLCU-580 this morning @ 4:11am. On 2/15 two new ones made it in here - WETB-790 which was very strong at 6:09pm & WIVK-850 which was in well @ 6:10pm. The morning of 2/16 was real good although I didn't hear anything new. KMBZ-980 was heard for only the second time ever @ 1:51am & rarely heard WSRF & WSUN were in as well. MM 2/18 netted a loud XEG-1050 @ 1:28am but there was no sign of the WROW TEST. On 2/22 rarely heard WFLN-900 was in well @ 5:17pm & WAVL-910 was strong with REL mx 3 5:20pm. SSS on 2/21 netted a new one that I've been trying to log for a long time - CJMR-1190 which was noted from 5:41-5:45 s/off. WHAM-1180 seems easier to null lately so I'm starting to hear a few things on 1190 at SSS now. On 2/26 I finally logged CHNO-550 w/WGR null'd @ 12:25am. March started out pretty good as I found some excellent SSS CX on 3/2. Rarely heard VEJL-630, WTAG-580 and WOKY-920 were all noted as were WNIS-1350 @ 5:49pm & WHAK-960 which was strong beside local WSRF-950 from 6:37-6:45pm s/off. WHAK was a milestone here - my 1,000th station. It's taken nine years to reach 1,000 - I wonder how many million years it will take for my second 1,000 - hi. More DX next time. 73.

RICK HAS A NEW RECEIVER TO PULL 'EM IN WITH

RICK KENNEALLY - 8132 Ashgrove Drive - Cincinnati, Ohio - 45224 513-474-1460
 ::::::::::: Hi all! March 23 marked the end of my second year of DXing. It's been a very successful year with four new states and 11 new countries. New states were Oregon - KEX, N.H. - WEEB, Wash. - KOMO & Nev. - KMJJ. The best domestic reception so far is KRDS-1190 in Arizona. The best foreign catches to date are St. Lucia-660, Trinidad-730, & a few measly TA's. The big news, however, is the recent purchase of PAT HARTIGE's HQ-180C. It is fantastic! I never knew they were so BIG! It's been as much fun working on it as it has been using it. So far I've added a local oscillator output for my counter, an antenna switch from the screw in terminals to the coax input, an input for my C-10 calibrator, & a recording output. The antenna switch has a neutral position so that the antennas are unhooked when the calibrator is in use. The clock has been repaired and is working nicely. For some reason the venier tune control puts out a carrier at 395 kHz and all multiples of that frequency. The het can be tuned away from 790 (2nd) & 1580 (4th), but it is still a pain in the neck. (Mine also has an OC near 780, 1170, & 1560 -ERC). With the counter hooked up, the readout is good to 1/10th of a kilohertz. Now that I can find it, is the NRC Ham Net still running? If so, where & when? In the DX department, WMLP; KHYM; WJWL (unn) & WPIC TESTs all made it as well as f/c's from WHEB-1360 & WFOY-1240 on 4/4. WHTH noted on 790 now, buried way u/WAKY. They should have stayed on 1000. WOOF-560 ET noted in WKRC slop @ 2am, 3/24. WWV sez there'll be a geomagnetic storm on 4/6. All I hear is electrical storms, hi. That's all for now. 73.

MARK STRICKERT adds on the back of his envelope that Broadcasting says WVLC-1170, Orleans, Mass. has applied for WKZE, & their FM, WLOM, for WKZE-FM. Our local paper, the Cape Cod Times, said WVLC is asking for WKPE and WLOM for WKZE. Which is right, we wonder? Stay tuned to 1170 and 104.7 and we'll eventually find out - but verify WVLC N-O-W-!

IS THE NRC HAM NET STILL IN EXISTANCE?

PETE KEMP - 5 Greenwood Avenue - Bethel, Connecticut - 06801

WB1FZX

Greetings all. A report from ham friend of mine, WA3AWL reports that WQIQ is going back to midnight s/off's. He is a part-timer there while working his way through school. (What's his name, Pete? A v/s is desperately needed there! -ERC) Our Canadian members might be interested in securing a copy of the "Evolution of the Canadian Broadcasting System", available in French or English, of course, from Canadian Government Publishing Centre, Supply & Services Canada, Hull, P.Q. K1A 0S9 for \$3.25 a copy (\$3.90 outside Canada). Specify Co 21-6/1979 (English) or Co 21-6/1979 (French). Cheques payable to Receiver General of Canada. This discusses the progress of broadcasting Act of 1968. Also, the DCC has recently put out a free copy publication called "Canada and the 1979 World Administrative Radio Conference". This freebie is available from Information Services, Department of Communications, 300 Slater St., Ottawa, Ont. K1A 0C8. I had a pleasant conversation with MARK CONNELLY on the phone the other day. We worked out plans for a sked, as neither of us has even been able to find or check into the NRC Net. Is it still in existence? So much for now.

HIS DX TIME IS GROWING SHORTER AS CHURCH WORK INCREASES

STEPHEN H. PONDER - Box 1712 - Matthews, North Carolina - 28105

Greetings again to all of you from warm and 'balmy' North Carolina! I hope DX has been treating you nicely - no earth-shattering DX to report here, but those veries keep coming in, but ever so slowly! Latest heard include WIRE-1130, CJBK-1290, WAXU-1580, WDXK-1250, & WHK-1120. The latest veries are WCPS-760, WCKM-1250, WENC-890, WIRE-1430, WBSC-1150, WDXK-1250, & CJBK-1290. I've been using the modified TRF that I bought from CHUCK HUTTON - Chuck, the thing works like a dream! I can listen to KMOX-1120 at night with super-pest WBT-1110 right next door! Now, if I could just stay up late enough to listen to the stations that fade in after midnight! Really! It's bedtime early for me, now that the churchwork has increased due to the planning of a full children's and youth program at the church. Anyway, I hope to catch at least some DX as I spin the dials, hi. That's all for now from Metrolina - 73 & good DX.

IS CFVD-1370 ON YET?

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

Veries: WUTQ, WBGB & several cards from WITS for all the old reports - and a letter in French from CHGB who thought it was not their station on 1370 I had - yet when I heard it it seemed in parallel - or do all FF stations "look the same". I actually had two sets on with one earphone on each ear & I had the same show hitting in the middle from both sets, so now I am confused - but no more than usual.

M O T H E R A L L M E M O R I E S

CHAPTER CXL - "Big D" - WDRC-1360, Connecticut's oldest radio station. by PETE KEMP. WDRC, Connecticut's 5,000w rock 'n' roll NSPer (pest) is the oldest continuously operating radio station in the state. It began as a vision of Franklin M. Doolittle, originally broadcasting from New Haven as WPAJ. In the early 1930's the CBS radio network approached Doolittle about affiliating with their system and moving into the Hartford-Springfield market. WDRC remained CBS station for nearly 30 years. Its studios were originally located at 11 Asylum Avenue (presently the home of WCCC-1290), then moved to the Connecticut Bank & Trust Company building at 750 Main Street, complete with 15-foot call letters atop the structure becoming a Hartford landmark, where they are presently located, with a ten-year span in the middle when its studios were in Bloomfield on Blue Hills Avenue. In 1939 WDRC-FM came into the world, as the first commercial FM radio station in the world. Doolittle was a personal friend of Major Armstrong and they later became professional associates in the development of FM. WDRC-FM was licensed as W65H in those early days. Doolittle went on to work on Binaural Broadcasting, which later became known as Stereo. He accomplished this by simulcasting programs on WDRC AM & FM. For many years the news department of WDRC was made up of reporters from the Hartford Courant. They would write up the local news and "report it" with two ten minute broadcasts a day. In 1958 Doolittle sold WDRC to Buckley Broadcasting. Buckley was the former president of WNEW in New York. In 1960 WDRC dropped its CBS ties and ventured forth. "Big D" has been tops with teams for years. Its DJs have gone on to many of the bigger markets and been successful. Names like Joey "Rats in my Room" Reynolds, Sandy Beach, Long John and Don Juan Wade, Jim Harrington, Dick Robinson (founder of the Connecticut School of Broadcasting, and most recently owner of WRCQ) and Ken Griffen. On the DXing side WDRC has confirmed reception reports from listeners as far away as New Zealand. WDRC was ever heard in the ham bands for a while, until RON MUSCO teamed up with the WDRC engineering staff, and nailed the bootlegger. This facilitated a breather on 1360 when I finally bagged WSAI. Musco's undercover work has been previously detailed. With 55 years of broadcasting history WDRC remains a cornerstone of Connecticut broadcasting.

NEXT ISSUE - "TWENTY YEARS AGO" - by RUSS EDMUND.

SPECIAL THEMES FOR MUSINGS IN UP-COMING ISSUES:

DEADLINE DATE

Monday, April 28 DAVE YOCIS' issue - send your Musings, double-spaced, to him at 502 West McDonel - MSU - East Lansing, Mich. 48824

MASTHEAD DATE

May 12, 1980

Monday, May 12 Alo NRCers who do NOT use a street address - i.e., who DO use a P.O. Box, Route number, or no street address.

May 26, 1980

Monday, June 2 All those in states/provinces/countries with NO seacoast

June 16, 1980

Monday, June 16 All whose names begin with A, B, or C - first or last!

June 30, 1980

Monday, June 30 All those who have NEVER used - new members or not.

July 14, 1980

DUE TO MY FOUL-UP OF DX NEWS PUBLICATION DATES, WE HAVE IN THIS PORTION OF THIS ISSUE MORE OF THE MUSINGS FROM THOSE IN THE "COMPOUND NAMES" CITIES. SO, HERE WE GO. -ERC

DAVE'S WARMING UP FOR HIS MUSINGS SESSION

DAVE YOCIS - 502 West McDonel - MSU - East Lansing, Michigan - 48824

3/26/80

Well, I suppose this will make the deadline for the "Two words in the city" deadline but my DX is not from here but Fairfield, Conn. Using only the TRF, I noted some 72 hets from TA's but all went unID save a weak signal from France-1557 that was occasionally readable. The Cuban situation is really a mess. Supposedly the 150kw XR on 590 moved to 550 & the 30kw XR on 550 moved up to 580, leaving 590 blank. But 590 is still the loudest of the three, 550 still is at about the same level, and 580 has rarely any signal at all. Help! In other news, I finally got a binder to put my small collection of veries in. I'm only verifying my East Lansing catches as my Connecticut ones are just too many to try to catch up with, as I'd rather spend my time looking for newbies. Eleven new stations heard while at home, bringing the Conn. totals to 72!. With the incredible noise problem here I've turned to SW during the early evening hours, joined NASWA and am trying to get somewhere on that, but that's all another story. Please support the Musings issue here (I won't even try to mention the date, it's been changed so much, hi) and then send them back to ERC as long as he still wants them. 73. (Hi, Dave - good luck - that deadline is April 26th! -ERC)

HIS "CHUCK HUTTON TRF" PLEASES HIM MUCH

SCOTT TUTHILL - 410 North State #9 - Ann Arbor, Michigan - 48104

Here we go again. This is the third muse of my short NRC career. Like the previous two I'm here because of the issue's theme, this time because Ann Arbor has more than one word in it. I guess that's sort of obvious, though. (No, I hadn't noticed, Scott, hi! -ERC) Well, or to the good stuff. My TRF arrived from CHUCK HUTTON and things have really been hopping. I've heard about 60 newbies in the six weeks since its arrival. Among them: KFI-640 which finally beat out the Cuban on 3/17; WERK-990 which came booming in on 3/11 at sunset with "You're listening to WERK"; & WABA-1590 caught at s/off on 3/21. Totals now here are at 171 heard in 27 states & three provinces - 1,000, here I come, hi!. I made a startling discovery (to me at least) on 3/17. CHYR not only changes pattern at sunset but also changes frequency from 710 to 730. I wonder how many other stations do this? Movin' on I see Argentina & Canada stalled the 9 kHz spacing plan until at least November 1981. (Let's hear it for Argentina & Canada! -ERC) Fine with me, by then I hope to be ready with a loop & other assorted receiving gear to take advantage of the mass confusion resulting from the switch. That's all for now, happy DXing & I'll C U soon.

THE VERIES ARE ROLLING IN FOR CARL

CARL W. DABELSTEIN - 8209 West 78th Street - Overland Park, Kansas - 66201

Well, not too much DXing has been done here in the last couple of months. Heavy work load at the office combined with my working on my Masters Degree has prevented my spending a lot of time at the dials. The following is what I've been able to log since the first of the year. 1/5 brought WMCL-1060 McLeansboro, Ill. w/c/w mx & ads for their city & Mt. Vernon, @ 5:20. S off from KVMC-1320 Colorado City, Tex. @ 7. On 1/6 I heard unid WAMB-1170 Donelson, Tenn. with Old Time Radio until s/off @ 6. They were promoting their Big Band Music. WNPT-1280 Tuscaloosa surfaced @ 6:20 with congratulatory announcements to the Alabama FB Team. The s/off from WLUX-1550 Baton Rouge @ 6:30. Unid r/c-TT from KCNL-1280 on 2/16. Later that day, I discovered the new KURM-790 Rogers, Ark. is a regular here daytime. 2/18 brought the TESTS from WROM & KURL. KARZ-960 (ex-KOOL) heard 3 1:59 w/EZL. KSNO-1260 Aspen heard ending f/c @ 2:40. Later that day, WLBB-1100, Carrollton, Ga. heard with Community Bulletin Board @ 6:25pm. 2/25 brought the WJWL-900 TEST & KERV-1230, Kerrville Tex. w/ET/TT @ 1:49. Their only audible ID was in code. 3/3 brought f/c-TT from KCCR-1240 @ 1:44. Unid KVSA-1220, McGeehee, Ark. heard w/Pop on 3/23 @ 1:05am. A few veries have managed to find their way here. V/s from WENO-1080, KVMC-1320, WLUX-1550, KGCS-1600, KURL-790, KEKV-1230, KKSL-1440, WARF-730, KJWL-900, CKLQ-1570. V/PP from WESC-1450, WVCG-1080, KIDN-1350. V/q from WERH-970, CBO-920. V/f from KROM-710 & WSLV-1110 returned a copy of the report from the monitoring company who was measuring their frequency when I got them. Total veries are now at 2,051. Not too much else this Muse, so 73's and DK.

TWILIGHT IN WILKES-BARRE IS DX TIME

HARRY J. HAYES - 9 Henry Street - Wilkes-Barre, Pennsylvania - 18702

EST

A very bad virus that I got over this week left me with severe left ear blockage so I am only at around 70% hearing acuity which makes it a little tough on DXing. I have the distinct feeling that someone is holding a pillow against my head. Since, if I remember, last Muse was a non-DX one, this time I will report on my activities for March. The month ends with five new ones added to the bin. 3/10- 6:30pm WBUY-1440 N.C. for a new one. 7:01, KAAY-1090 Ark. u/WBAL w/rr. 3/12, 6pm WKBK-1220 N.H. for another new one, w/musical Our Father & s/off. Then at 6:12 yet another new one on the neighboring frequency, WKXW-1210 u/WCAU w/rr. 3/15- 6pm, WJSN-1110 Pa. s/off. 3/16- 2am unid w/EL mx, I expect 'twas CHQT. 3/17- WWSR-1420 Vt. @ 5:59pm. 6:15, WQIN-1290 Pa. s/off & SID. 6:31, WAVZ-1300 Conn. heard w/standards. 3/20- A good low-band European opening. Unid-1363 w/light mx & woman in what sounded like EE accent. This strongest @ 10:35pm. Unids also on 738, 756, 846, 855, 864 & 882. The 882 was the strongest @ 11:53 w/pop instrumentals & the old Match Game theme (can't remember title, Sweet Samba or something, hi) @ 11:55. 3/22- 5:45pm, WJMQ-1170 Norfolk, Mass. very strong, just caught s/off. Doesn't this one give your local WNLV fits, Ernie? (Not much; WJMQ protects WVLC -ERC) Guess that's about it on this side of the coin. 73. HERE'S YOUR CHANCE TO GET ON ONE OF THE HOLLYWOOD TV QUIZ SHOWS! ATTEND THE NRC CONVENTION!

BCB DX IS DORMANT IN A DORMITORY

MARK STRICKERT - 960-N705 - 1239 Dickinson Drive - Coral Gables, Florida - 33146
 8004.01 - how inconsistant I am - I did make the Irish issue though I'm only 1/8th Irish, but missed the Seacoast issue. This ought to make the two-word city one, however. Still little or no DX to speak of, as Summer CX comes early to this neck of the woods. Besides, it's DX to hear Broward and Palm Beach County stations at night. WVOJ-1320 Jaxville is even or o/WADY (ex-WGMA) Hollywood, & SSS is strangely easy once WSRF throws on the night pattern. When someone out of town asked if "Surf" was still o/w, I honestly couldn't say until I heard them the next morning. The answer is 'yes', hi. All you college & ex-college DXers will agree that dorm DX is the next best thing to DXing in a subway. At least FM is good on the seventh floor. Most Tampa-St. Pete-Clearwater stations are regulars, I have heard stations as far as 475 miles away (WXBM-102.7 Milton Pensacola, Fla.) but none out-of-state yet! Most recent new correspondence is from DAVE ARBOGAST, MIKE KNITTER (again, muchas gracias for the KKLS stickers!) and the (un)usual bunch. I'm still on the lookout for stickers - I still lack them for any station in Delaware or Mississippi, and P.E.I., but I'll take any extras for any station. I just made a raid on many stations here so if you need Miami/Ft. Lauderdale stix, I'll be happy to oblige. Finals at U. Miami in three weeks, so it's hit-the-books time. 73 & OK DX de MAS.

ALL DOMINICAN STATIONS WILL NOW ID WITH CALL LETTERS

CESAR OBIJO - Calle Enrique Henriquez 59 - Santo Domingo, Dominican Republic
 I have just received the "Green Issue" of DX NEWS dated March 17 on March 18, but unfortunately two blank pages were enclosed (hi), pages 6 & 19 are completely blank. Perhaps I am not collaborating a lot now but I enjoy so much DX NEWS that not reading two pages is like murder, please HQ, I kindly request you to send me, not the complete issue but those two pages in an envelope which I am missing so much. Thank you, gentlemen, I know you are very kind. On the other hand there is a good news for all of you Latin American DXers, Dominican Telecommunicaciones ordered some days ago to all of our stations to ID on the hour and on the half hour with the name of the station and call letters. I hope our broadcasters will comply, this is a very good order, at least I think so. I hope next year the Convention will be somewhere in the East so that I may attend, I always like that crazy gathering of crazy kids (yes, we all are) just turning radio knobs. It is an event that gives me the opportunity to visit other U.S. cities. Why not now Washington, Philadelphia, Richmond, or lastly in Miami again, as I read in the "green issue" that there are members in Dade, Broward & Collier Counties, like RON SCHEATZ, TODD HYDER, & MARK STRICKERT. OK, fellows, you can count with one vote for an Eastern city. This will be all for the time being. 73 to you all. (All we need are HOSTS to step forward, Cesar -ERC),

DES MOINES DOINGS

STEPHEN J. MCINTIRE - 2225 Searle Street - Des Moines, Iowa - 50317 3/25/80
 Hi all. One verie back & it is a goodie, WJWL-900 on the TEST for State 48 heard ('twas a tentative) & #47 verified. No DX to speak of except for a daytime session on 3/15 using one of CHUCK HUTTON's modified TRF's. CX were good as near high noon CLT I got a clear ID on WLW w/almost no WBB slop & audio on 650 from a c/w station which must have been WSM, along with the semi-normal good signal from WJR. My previous report of lack of sensitivity in the Hutton TRF thus proves to be incorrect; it is more sensitive than my stock TRF (the probably less so than my RF-2200) & much more selective (slightly better than the RF-2200). As promised, here is a report on a report on the D.M. radio scene: KCBG-1390 is now using the "Entertainers" format, mainly MOR/STD tunes. They're off now 1-7am ELT. Though I haven't stayed up often enough to be an expert, KSO-1460 seems to be AN7 NSP w/their normal AN DJ on M's. KRNT-1350 off but with intermittent testing on a couple of M's; their SP's are irregular at best. KRNT's Steve Gibbons has been in the news quite often lately. He recently set a Guinness record for the longest time sitting in a tub of pudding (assisted by that well-known pudding pusher Bill Cosby). He has also opened what might be the first DX-oriented night club in the nation (along with ex-KIOA man Doug MacKinnon), which is the radio station featuring radio paraphanalia dating back into the 20's. Dick Vance, KSO's PD during the early 60's & my boss at KDMI-FM during the late 60's, has been in the news even more. He bought 60% of the Iowa Cornets WEL team & leased a cable TV channel. Now the bad (?) news; his check for the Cornets BKB team bounced; he's a month behind on his rent for the cable channel & he's being sued by the state. I don't feel too badly about this; he never gave me my last pay check at KDMI! On the corporation front, KSO's PD & CE have formed a broadcasting company (with \$20,000 authorized capital stock), as have several small town radio folks (along w/ex-Iowa & K.C. Chiefs player Ed Podel) for much more money. What this is is anybody's guess. In my previous list of ex-Des Moines radio personalities seeking public office, I left out the most obvious, ex-WHO sportscaster Ronald Reagan (who may be even better known than current SXeaster Jim Zabel despite the latter's 35 years on the job! 73.

JOHN'S GOT A NEW HOME IN A NEW CITY

JOHN W. HOOGERHEIDE - 206 42nd Street S.W. - Des Moines, Iowa - 50312
 Note new address - I bought a new home in Des Moines & will move in on April 18. No phone number as yet, but operator can get it for you. My old apartment DX location was nil for the entire season. Line & TV & fluorescent light noises made DX impossible this season. The new home has lots of trees so I should be able to put up some nice antenna systems here. I will have an entire room for my radio hobby as well. I hope to get together with STEVE MCINTIRE once I get settled in the new place. I would also like to see BILL SMITH's new antenna farm up at Reinbeck. 73's to all.

HIS CARNIVAL DISPLAY BROUGHT RAVES

MORRIS SORENSEN - Box 764 - Leaf Rapids, Manitoba - ROB TWO
 On MM 3/17 I decided to try for the KMNS-620 TEST but all I heard was an unusually strong CKCK. However in checking across the band on my TRF I noted a fantastic WC opening with many stations from B.C., Washington & California blasting in. My only new logging was CFJC-550. A few days earlier I had bagged KSJE-1330 Minn. which I assume operates on a share-time basis. My display of DXing at our Winter Carnival drew several comments: I exhibited my RF-2800 (the HQ-150 is too big and the TRF looks too ordinary) plus several v/q's, pennants, log books, etc. A few people complimented me on my fine "CB set-up", hi. QSLs have come from KOSI-1430 & KURL-730. The CE of KURL said mine was the only report he received from Canada for their TEST. 73.

AND LAST, HERE'S THE "OLD PHUMPHITT."

ERNIE COOPER - 5 Anthony Street - Provincetown, Massachusetts - 02657 617-487-9337 4/8/80
 Veries in from: WUTQ-1550, WFGC-1550, CKO-1470, WGOC-1090-TEST, KHYM-1060-TEST CFLP-1000 & WGFP-940, the latter, 250D-1 in Webster, Mass. whose first day on the air was 3/27 & my request for verification w/their FIRST piece of mail received! They're quite wsal here. DX: 3/17- What better way to start St. Patrick's Day than by hearing Ireland-567! They were in @ 1:08. The TTer on 1500 was IDed as unu WGIC, who later switched to hymns - they were on from about 1 to 3 a.m. WTIC-1080 was off, old friend WVCG occupied their spot @ 2:28. I too heard ten seconds of TT on 620 @ 1:33:30, but nothing else, so no KMNS-TEST. WMPL-1380-TEST made it u/WBNX in part, unu. Who IS that c/w-er on 1400, in again today, 2:10-2:15? 3/18- Um WSAY-1370 ETing @ 1:14 o/another TTer, WFEA off today & the rest of the week! Old pal WSPD was heard for the first time in ages, therefore. SSS, CFLP-1000 was booming in so a report was finally sent 'em. 3/19- It seems here that XNVR-1380 has quit ANING - is this so, JOHN KOSINSKI? A musical tester on 1560 turned out to be unu KLTI, IDed while I was talking on the phone with PAUL MOUNT. Other phaners recently were STAN MORSS - DAVE FOX - AL QUAGLIERI - RICK KENNEALLY - BILL COLEMAN. TTer, not CBJ, on 1580, high-pitched TT, 2:08-2:30 went unIDed. I heard XERF-1570 ID in SS @ 2:28 u/CFOR, CKLM off. 3/21- Add WMBB-1240 to the Larry King net. Sweep-tones wafting in astride 1340 @ 2:08, but no IDs. I heard local WNL today describing an accident victim as "having at least two broken legs". Local radio is more fun than a bowl of musk turtles (which I happen to have on my radio table). MM 3/21- Off today were WHAM, WMEE, CKCW, WABC, some of the time. KHYM-1060-TEST made it but ONLY their CIDs - thank you, WAYNE HEINEN, for recommending use of them! UNID TT-1500 @ 2:40, and one on 560 @ 2:53. On 1090, HOL-82 was atop HJEC @ 3:45. 3/25- UnIDing TTer in WOR-710's null 1:43-2:11 & on; it seemed to be the same guy whose OC I hear every AM there, but WHO IS IT? 3/26- Um CBEP-540 in like Flynn @ 12:57am, a really socko signal. Add these now to Larry King's: WSYR-570, KSTP-1500, KCKN-1340, WJJK-1400, WUSS-1490, & KKAL, Arroyo Grande, Calif., frequency unknown to me. 3/27- Um WALL-1340 on top @ 2:05. TTer on/off on 1360 u/WDR. 3/29- TTer @ 1:34 on 1350, not IDed. SM 3/30- TTer on 1400 2:26-2:34. MM 3/31- TTs today on 1380 @ 1:09 & 1:57 on 860. KATZ-1600 must be having pattern problems, they were pounding in here o/WIXY this AM. WPIC-790-TEST was on top of the channel, agair the CIDs were a tremendous asset! And a TTer on 1590 @ 3:34. 3/1- TTer on 1550 1:19-1:33. Who has Larry King on 1380? I noted him there at 1:51am. WHO-990 super-strong @ 2:20 plugging other WHO shows. WKWB-1520 was TTing @ 2:33. PM SSS, A third try to verify WPNE-1300, in excellently 6:09-6:20s/off. Unus heard also: WKDR-1070, s/off @ 6:45 w/SID, & WCRJ-1530 good @ 6:53pm. See you in 21, in DAVE YOCIS!

THEY JOINED

Welcome to the newest members of this fine old club. Please introduce yourself soon!

Albert Edwards, P.O. Box 586, Kalaheo, Hawaii 96741
 Robert M. Boner, P.O. 12, Covington, TN 38019
 Robert Aluska, 14-57 110th Street, College Point, NY 11356
 G. Cranston Bonnell, 404 Albert St., Fredericton, New Brunswick E3B 2B8
 Robert J. Mielcarek, 2317 E. Ohio Ave., Milwaukee, WI 53207
 Gary K. Hummell, P.O. Box 34, Placid Manor, Adamsburg, PA 15611
 Richard Nall, 1218 Innis Court #1, Louisville, KY 40204

Recent renewals include: Vincent Gwardzinski, Brock Whaley, Univ. of Manitoba DX-SWL Club, John Cieslewicz, Arthur Holt, Jeff Lockwood, James Couture, Terry Morris, Patrick Golembiewski, John Kotfis, Sidney Marshall, Sigvard Andersson, R.G. Messenger, Richard Northup, Dan Samer, E. H. Grossman, Thomas Matthews (2 years), David Feldman, Eric Fithian, David Kennedy, Yngve Mattsson, Edward Wyman, Herb Childs, John Callarman, Richard Russell, Douglass Allen, Robert Stonier, Harold Francis, William Martyn Madeley, Wayne Benkinney, and John Allchin.

OUR NEXT ISSUE - MAY 12

AFRICAN-ASIAN DX by Pete Taylor. This is a continuation of Part I - African DX, which appeared in DX News last issue.

1017 N UNID AA//1008 1810 11/14 with 1017 under another AA
 1020 CT KDKA Pittsburgh fair/weak 0255 11/13
 Nw ZIMBABWE/RHODESIA Gwelo FS in PP 1640-50 11/20 w/"Star Wars" by Meco used as vignette theme (commentary); Portugal P.O. Box address.
 1030 CT WBZ Boston w/football 0255 11/13, weak
 1035 CT PORTUGAL Lisbon. One of 1st Europeans noted. Fair 2150 11/10.
 1040 CT WHO Des Moines 0352 11/13. Furthest west heard positively.
 1044 CT MOROCCO Sebaa Aïoun FF teletalk 0050 11/12; probably it w/cl mx 2328 11/11.
 1050 CT WHN New York w/Anne Murray 0353 11/13
 1053 CT ENGLAND Droitwich w/disco program w/Manchester mailing address 2330 11/10, at good level, and jazz program following evening, same time
 1060 CT KYW Philadelphia editorial 0126 11/13 ("8:26")
 1062 E TURKEY Diyarbakir cl mx excellent 1825 11/23
 1070 CT WIBC Indianapolis w/basketball & Sears commercial 0320 11/13
 1071 E UNID AA fair 1825 11/23
 Nn FRANCE synchros weak FF 2005 11/17 w/drifter & above AA under
 1080 CT POLAND Katowice with Chopin music performed by Jan August 2334 11/11
 1088 CT ANGOLA Luanda good level evenings and enjoyable Cuban-influenced music; always noted //944 & 1155.
 1090 CT WEAL Baltimore teletalk 0128 11/13 with bad het.
 1095 E UNID AA or Turkish 1915 11/25 - Cyprus?
 1107 -- EGYPT Batra EE nx 1410 11/23 and strong everywhere. Growling noise.
 CT SPAIN synchros fair w/AFN under 2345 11/11
 1120 CT KMOX St. Louis weak 0350 11/13
 1124 -- LIBYA El Beida strong 2345 11/10 & //1250 2345 (1250 stronger). Also, I'm not sure it isn't OC AN.
 1134 N UNID AA strong w/another AA under 1820 11/14
 CT SPAIN synchros w/some non-sync problems in SS 0130 11/13.
 1140 CT WRVA Richmond teletalk 0131 11/13
 1161 N BULGARIA? Chic/disco/native & FF mx 2025 11/14. Not France.
 CT FRANCE Strasbourg //675 w/accordion mx 2345 11/11
 1170 Nn USSR. Exact location unknown. Lutsk is the same distance west of Kiev as Moghilev is north. Maykop 45N 40E is shown in WRTH 79 w/ 500kw, but WRTH 80 says station is in Armavir, about 55 miles NE. From 1955-2000 11/17, in AA with program about excavation during program on "The World of Technology" inviting listener comments to specific box numbers in Baghdad, Aden, Cairo. Signal heard great in Nairobi but poor in Cairo. "Huna Moscow".
 CT USSR probably the same one in RR or similar over WWVA 0135 11/13.
 1180 CT WHAM Rochester nx 0402 11/13, weak
 1197 CT W.GERMANY Munich EE 0325 11/13 in the clear
 CT UNID AA 2345 11/10
 1200 CT UNID AA weak, very thin, no way to read anything 1815 11/14.
 1206 E POLAND synchros good 1820 w/Bobby Vinton soundalike 11/23 in Polish
 CT SIERRA LEONE Goderich weak 2340 11/12
 1215 N TANZANIA Arusha talk/mx 0428 11/15 & //720 11/21 (Nw)
 E ALBANIA Lushnje w/repetitive IS 0458 11/25 at good level.
 E UNID AA nx 1925 11/25 (Hiswa?)
 1220 CT BRAZIL Rio de Janeiro "Globo" at varying levels 0050-0405 11/13
 1224 -- BULGARIA Vidun. One of the monster signals; is DA south. Good in CT w/IDs 2200 and 0000 11/13-14.
 CT SPAIN synchros fair level 0137 11/13 during Vidun fade
 1228 CT UNID weak AA 2345 11/12
 1233 -- CYPRUS Cape Greco RMC. Good everywhere. Nothing else ever noted. Disco/pop (western mx) w/AA anncts/commls (Johnson baby powder, Merit cigs, etc.). A breath of fresh air among frustrating UNID AAs!
 1240 CT BRAZIL Racife. Good level morning of 11/13; repetitive "September Song" theme every quarter-hour or so. IDed by good people at the Brazilian consulate here in SF.
 1250 CT LIBYA Tripoli //to but stronger than 1124 2345 11/10. Strong 11/12 0045 but low modulation. Brutal OC 0139 11/13.
 1260 CT GREECE Rhodes VOA. Carries VOA 2100-2200 nightly; no "Yankee Doodle" after but Greek IS instead; Greek nx 2200 and EE ID 2230, then carrier off. Spain under. /off
 CT SPAIN synchros under Rhodes s/off 2230 11/11 and then fine after OC
 1265 CT ST.KITTS Basseterre "Paradise" - you probably wondered where their signal went; now we know. Mammoth signal at times 11/13 w/gospel song "Deliverance Time" 0247.

1269 CT YUGOSLAVIA Novi Sad EE pgmg. description and anniversary of Radio Belgrade 2205 11/10 at nice level.
 1280 CT BRAZIL Rio de Janeiro/Tupi (?) only one listed on 1280, but no "Tupi" heard. Fairly good level 0005-0340 11/13. PP w/commercials.
 1295 -- SUDAN Sennar. Presumed the AA heard here in Nn & E was this. No IDs on hour or half-hour; not great strength in CT or Cairo but semi local Nn heights.
 1314 E ITALY synchros fair level 1820 11/23
 1323 -- CYPRUS Zyyi BBC WS fairly good throughout Africa but nothing like 639.
 1332 E ITALY Roma & synchros very good level 1820 11/23
 1340 CT UNID SS 0010 11/13
 1350 CT FRANCE Nice/Nancy whatever FF with EE by British person being interviewed & then Joanie Sommers record 2210 11/10, & FF talk, IS, nx 2358 11-10 to 0002 11/11. Het, Nouakchott-1349?? went off 0001.
 N USSR synchros in the clear 1855 11/21
 N UNID language & anthem 2004 11/14 - eastern European or Russian.
 1360 N UNID, likely Iraq, heard w/some rock, almost Indian or Pakistani mx 1830-1945 11/14, 11 bells at 2200.
 CT UNID Brazil 0015 11/13
 1370 CT UNID Dallas/Phila. football //WTOP 0245 11/13
 1377 E FRANCE Lille fair FF 1947 11/25
 N SWAZILAND Sandlane fair, rock, 1837 11/14
 1380 CT UNID Brazilian 0015 11/13; PP religious pgm 0120 11/12
 1386 N/N+ UNID but not AA, probably Ahwaz. An occasional "Kismet" type fanfare, talk, but no other music (Time's "Man of the Year" has banned music, you know.....)
 1390 N UNID AA 1840 11/14
 1395 -- ALBANIA Lushnje fair in CT 1905 11/21, and good in E in GG 1815 11/23
 1404 CT GUINEA Conakry long list of "commissions" (?????) and mention of the "revolutionary gov't", Conakry, then guitar mx and flute mx 0035 11/12. Soft modulation.
 E FRANCE synchros w/het 1820 11/23, fair
 1413 -- OMAN Masirah BBC//639 1323 702 2105 11/14 w/WS. Pretty consistent around Africa.
 1422 E W.GERMANY Saarbrucken fair in GG 1815 11/23
 1430 CT UNID FF 11/10 w/bad het (Mal?)
 1431 N USSR/Ukraine? RR or similar nx 1905 11/21 at good level.
 1448 E UNID AA 1815 11/23
 1458 CT ENGLAND Brookmans Park weak pops 0020 11/13
 N ALBANIA Lushnje nx 1910 11/21, then mx; stronger than 1395 (not //)
 1467 Nn MONTE CARLO RMC FF 1940 11/17 fair/weak. Also good Cairo 1813 11/23
 CT UNID AA 2225 11/11
 1470 CT UNID SS 0025 11/13
 1476 E AUSTRIA Wien w/Peter Schickele type music (cl) 1907 11/24
 N EGYPT? synchros fair 1915 11/21; not specifically noted in Cairo
 1480 CT WMDD Fajardo fair to good in SS 11/13 0240
 1481 N DUBAI "Station of the United Emirates from Dubai" news and "Kismet" type fanfare 1914-15 11/21, good; "next news 12:30" presume next day.
 1494 Nw MOZAMBIQUE? Pops/EL, including Simon & Garfunkel; every 3rd song or so in PP, Pt. Amelia & Pemba listed.
 N USSR? EE nx to 2132 11/14, I believe, from "Radio Moscow" then into RR mx. FF also noted so think 2 stations involved (no beat between 2 stations).
 1495 Nn UNID sounds like FF 1912 11/17; het. Lebanon?
 1500 E LEBANON "Radio Free Lebanon" in EE on Middle East peace, specific ID, Paul Mauriat music 1755-1800 11/24. Anyone have address for this?
 CT WTOP Washington Mutual nx 0133 11/12; teletalk 0026 11/13; Dallas-Phila. football 0223 11/13. Consistent nightly but not too strong.
 1510 CT WLAC Nashville ID 0028 11/13
 1521 -- SAUDI ARABIA Duba pretty heavy everywhere. //882 900 at 1908 11/14, and //585 594 684 900 at 1558 11/17 w/prayer. Fair days in Cairo.
 1530 CT WCKY Cincinnati fair/weak w/football 0215 11/13
 CT VATICAN IS & bells 0030 11/13. Also, I believe this is the one with Ray Charles Singers & 2 Billy Vaughn records 0013-0020 11/12, sloppily played and w/no talk. Pretty good signal around Africa.
 1539 N INT'L WATERS - Voice of Peace, disco & rock & Coca-Cola spot, U.S. announcer; in Hebrew, FF, EE (and probably AA) 2120 11/14. IDs as 1540. Not noted in E.
 1540 CT KXEL/ZNS? Presume the former w/revival programming 0248 11/13
 1548 N USSR Ukraine or some other RR like language good 1923 11/21
 1557 -- MALTA Cyclops DW relay ID & carrier off 2120 11/10 but back in AA 2215 from CT. From Nn, AA promo & repetitive IS, 1 EE annct. & AA pgmg around 1900 11/17. This one gets out rather well.

TERMINATOR TRANSIT MECHANIX

Ronald F. Schatz

Part IV-A § TXM and E20

Due to the rather lengthy intervals that have elapsed between the appearance of our TXM articles, we are providing a list of those articles that have appeared so far in DX NEWS for the convenience of members who wish to review and/or study them:

I	"General Introduction"	9 Oct. 78	3 pages
II	"Tracking the Terminator"	5 Mar. 79	5 "
III	"The Theory Behind TXM"	24 Sep. 79	7 "
IV	"TXM 'E' Calculations"	12 Nov. 79	6 "

These past articles should now be available through NRC Reprints; page total is 21.

Also among NRC Reprints is an interesting article entitled Solar Control of Dawn E Blanketing on the MW BCB (P2). Therein its author, Gordon P. Nelson, introduces "E20".

E20, like TXM was an attempt to find something more accurate than sunrise and sunset for determining when a sky-wave signal would fade in or out. Both systems were born out of strip-chart recorder observations and research, and both Nelson and myself noted regularities in our charts that could be projected into useful predictions. In every other way, however, E20 and TXM have little or nothing in common, as we are about to prove.

As a first comparison, let us define each system:

E20 - the time when a TA signal has faded to 20 dB below its original nighttime level as a result of "dawn E blanketing".

TXM - re the effect of the sunrise/sunset terminator on sky-wave propagation, as seen from a strictly geomechanical perspective.

Note that E20 is no more than a simple "temporal parameter" (in TXM jargon), while TXM is a large field of study including a host of parameters, such as E, P, F, D, etc., and also gets into range determination and long-term fading. The nearest equivalent to E20 in TXM seems to be Er, so let's define it for comparison:

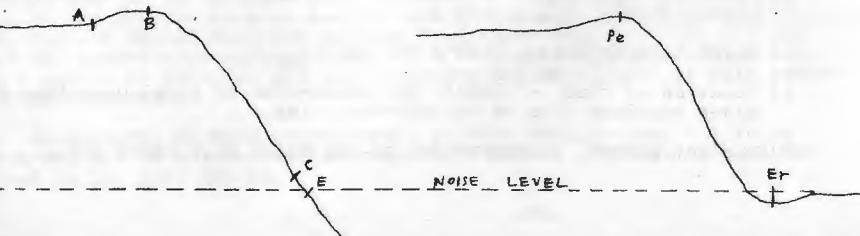
Er - the time when a signal completes its fade out due to sunrise along the signal path.

Another term that must be defined is "dawn E blanketing", which Nelson describes in his Skyline Blockage (reprint Pl5).

Dawn E blanketing - the ionospheric E layer's covering up the F2 layer at dawn, thus blocking MW signals from reaching the F2.

Let us say now that it is an undisputable fact that Nelson's theory of "dawn E blanketing" runs directly contrary not only to TXM's basic precepts but also to decades of broadcast engineering sanctioned by the FCC and the EBU, who assume that the D layer envelopes the E layer to effect the dawn fade out at MW frequencies. Note, however, that just because Nelson's theories on MW propagation may be wrong, that is no proof whatsoever that E20 is invalid in any way. There is always the chance that TXM "transfer" theory may also be found incorrect some day, but TXM calculations still work regardless. Bad theory is never proof against empirical evidence.

Now that we have thrown the "theory" question out of court ...



- 1566 CT TUNISIA Sfax good w/chanting 2215 11/10; mx off 2350, carrier 2351 11/10. This like Oman-702, sounds like a slightly mistuned single sideband off air pickup.
 1570 CT MEXICO XERF C. Acuna presumed w/religion 0405 11/13 in EE.
 1580 CT CBJ/WSRF. FF noted 0217 11/13; it faded into C&W & WSRF ID shortly thereafter.
 1584 E GREECE AFRS Athens/Iraklion w/AFRS sports event 1627 11/23
 1593 -- W.GERMANY Langenburg WDR great CT 1755 11/13 & 0002 11/12 also CT
 1602 CT ASCENSION ISLAND "Volcano Radio" full ID after BBC nx 0005 11/12, weak
 NW UNID FF talk w/repetitive musical IS of drums & organ 1900 11/20
 Gabon ???
 1614 E GREECE - eastern part of Crete. Mx talk & Greek NA s/off 1959-2002
 11/25. However, s/off annct. says they're on 1400.

There are no reports above of my reception of stations in Benin (1476 was always a mess with nothing dominant); Burundi; Cape Verde (the plane refueled there--no locals noted at 6:15 am LT; Central African Republic; Chad; Comoro; Equatorial Guinea (no MW); Gabon--unless my 1602 is it; Gambia; Ghana (no MW); Guinea-Bissau; Ivory Coast; Jibuti; Liberia; Madeira; Madagascar (I really tried 1350!); Mali (unless the FF on 1430 was it); Mauritania (but I think the 1349 het on France was here); Mauritius; Mayotte, Niger; Nigeria (unless the 594 Dixieland was here); Rhodesia/Zimbabwe domestic outlets, some of which were noted but not logged; Rwanda (no MW); Sao Tome; Seychelles (couldn't get 1368); St. Helena; Togo; Upper Volta; Zaire (I think I would have heard the 300kw on 801); and Zambia, whose 250kw on 819 is reported off (Cairo was always in the clear). Oh, well -- maybe next time.....

A word on TRANSKEI (pronounce Trans-kai). Kristine & I visited their Cape Town sales office and I bought a "604" sweatshirt (I sent them a picture of me wearing it on the Great Wall). No one knew why 604 rather than 603. Literature promoted Cape Town SW reception (starting 12/26) daytime and 604 at night. By now it should be on 20 hours a day; studios Port St. Johns, xmtrs. Herschel (500kw) and Umtata (100kw), a booster. 51% owned by the Transkei government. Top 100 w/maximum of 9 commercial minutes per hour, split into six 1½ minute segments. Programming consultant is M. Bukht, original Programme Controller of Capital Radio, London. Slogans will be "All the hits and More", "The station that puts a sparkle in your ear". Bumper strip says "Have you hugged your radio today?". If it does start off on full power, should make it to the East Coast easily. Literature doesn't mention DA, and with transmitters in both Herschel and Umtata, that's possible.

In the near/middle east, nothing specifically was noted in Afghanistan, Bahrain, Iraq, Kuwait (I'm sure 540 & 1134 were heard), Qatar or the Yemens. And Haifa-1206 was great in Cairo 1900 11/24 w/James Last-type march, ID, news.

Next time, on to PART II - ASIA.....

FOR SALE

Two items received at HQ. from member Tina March regarding equipment for sale:

R390A/URR .5-32 MHZ receiver designed by Collins Radio with digital readout to 200 HZ. with four mechanical filters: .1, 1, 2 and 4 KHZ. Sells new for \$1750, only \$650.

Yaesu FRG-7 receiver with Gilfer modification kit. Less than a month old. \$245, will ship UPS C.O.D.

Address on above: Tina March, 311 Weymouth St., Dix Hills, N.Y. 11746
 Again, please direct all items of this nature to Russ Edmunds, P.O. Box 127, Boonton, N.J. 07005 for inclusion in future DXchange columns.

The two illustrations at the bottom of the preceding page show how E20 and TXM differ in their interpretation of the dawn fade-out process. Per E20, the "slight fade" at time "A" is caused by ultraviolet preionisation of the E layer; TXM states that it's due to the initial disappearance of negative-phased return. "B" and "Pe" are apparently identical, both due to the onset of blanketing, but "What blankets what?" is the question. Nelson never told us how to calculate time "B"; while instructions for determining "Pe" were given in Part IV.

Time "C" is Nelson's E20 time, when the signal has dropped to only one-tenth of its original strength before "A". TXM has no exact equivalent to such a parameter.

Time "E" is E20 time, when the signal should have dropped to one-hundredth of its original "A" value; this is normally well below noise level at this point. Further drops to E60, E80, E100, etc. would seem plausible assumptions in Nelson's theory, but he does not mention this.

While E20 theory seems to recognise a bottomless slope towards Es, TXM theory states that the signal will halt its fade-out at a certain point - when blanketing is complete; that is parameter Er.

Summarising so far, we see that the major difference between Nelson's E20 and TXM's closest equivalent, Er, is that the first marks the 90% point in the dawn fade-out while Er means the fade-out is completed.

In other ways, E20 suffers from severe limitations, unlike any TXM parameter; Nelson not only admits it, he stresses it:

According to Nelson, E20 calculations require a complex computer programme for their solution, as he mentions in Solar Control. While TXM is certainly amenable to computer programming, its calculations are far simpler, needing little more than a world globe and tape to solve for its parameters (as we have proven in past articles). Here we see a double-barreled disadvantage for E20, a less useful parameter that is more difficult to derive.

In his East-West Symmetry and the Fade-In Problem (P3), Nelson makes it clear that E20 cannot apply to sunset fade-ins, since his calculations would have to account for a loss, rather than a production, of ionisation, and "a final uncertainty of 30 minutes would not be surprising". It appears, then, that E20 may be roughly similar to Er, but not to Es.

Let us note that the professional authorities (including those referenced in Medium-Wave Ionospheric Propagation - A New Perspective (P23)), state that the D layer has a photoionisation time constant of about one minute, and the E some two minutes, and this is borne out in our charts. Even better proof of the almost instantaneous effect of photoionisation on the lower ionosphere may be noted during solar eclipses; several such experiments are covered in past issues of the Proceedings of the IEEE. This suggests - but does not prove - that Nelson's bad theory may have led to improper E20 calculations, thus questioning the accuracy of E20 itself.

Again, Nelson failed to tell us how to calculate E20, but he did devote a short paragraph to it in Solar Control. The paragraph was so vague that even we have to guess as to the nature of the ingredients in his E20 recipe:

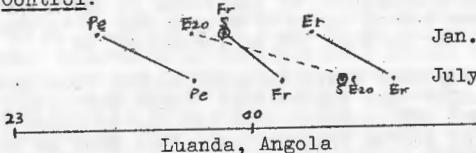
- 1) Geodesic path - we assume the signal path from the "rare station" to Nelson's home near Boston, Massachusetts, consisting of a minimum number of hops via the F2 layer at 4000 km per hop.
- 2) E ionic distribution - the electron density (N) of the E layer.
- 3) Greenwich noon angle - GMT/UTC with emphasis on the sun-earth perspective.
- 4) Solar declination - TXM's "W" table.
- 5) Equation of time - likely the conversion of local mean time to a given standard time or to universal time.
- 6) Sunspot number - superseded by the solar flux index (SFI).

7) Frequency - to calculate when the oblique critical frequency will be exceeded by "a certain amount".

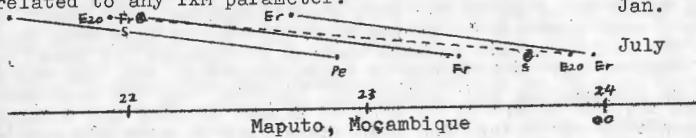
TXM completely ignores 2 and 6 above in its calculations; TXM is a totally mechanical system, so "liquid" values such as electron density and solar flux have no place in it. Frequency is important in TXM only for the purpose of defining the geodesic path (E, F2, or both).

Does E20 work? We regret that Nelson hasn't given us much opportunity to find out. While dozens of TXM predictions on easy stations have been published in recent issues of DX NEWS, since we want DX'ers to prove for themselves that TXM works, the only E20 predictions that we have access to are for stations in Angola, Kenya, and Mozambique!

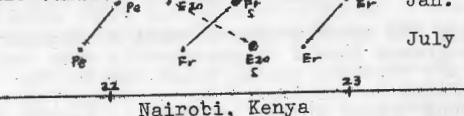
For what it's worth, we can make a direct comparison between TXM and E20 by referring to those three African locations, unfortunately we won't be able to verify anything, short of the best DX conditions ever experienced in the history of our hobby. We will compare the January and June predictions for the three locations, given at the conclusion of Solar Control. TXM calculations assume geodesic paths to Boston and a solar declination angle of $\pm 67^\circ$. "S" indicates local sunrise. TXM parameter Pf, normally located some distance to the left of its companion parameters, is not calculated; this is to conserve space on the chart. Keep in mind that these are southern-hemisphere locations, where June is winter and January is summer. Scale hours are EST, concurring with the times in Solar Control:



Luanda has the most stable chart, since the ionospheric control area for the path is just south of the equator. Its TXM parameters have an almost classical arrangement: "Pe-Fr-Er" with sunrise almost coinciding with Fr. Note how E20 hardly differs from LSR. E20 also comes very close to Er in July (winter) while it nearly matches Fr in January (summer). From the Luanda graph we see E20 more as a variation of LSR than related to any TXM parameter.



Maputo (formerly Lourenço Marques), much further to the south, shows a much greater seasonal difference. Again E20 follows LSR closer than it does the TXM times, in fact E20 swings over a greater range with season than LSR. Remember that electron density, solar flux, and frequency are included in E20 calculations but not in TXM.



The Nairobi graph is different in many respects. While the city is just within the southern hemisphere, its control area is north of the equator, so its TXM parameters see July as summer and January as winter. LSR follows the southern pattern, however, and E20 especially so.

In the Nairobi case we see E20 and TXM clearly at odds. According to E20, Nairobi should fade out earlier in January than in July; TXM has just the opposite occurring; both can't be right. Unfortunately, Nelson's choice of examples all but precludes the settlement of this matter through monitoring.

In summary, we have demonstrated in this article that E20 is no match for TXM in any way whatsoever, short of the publicity it has received in the past decade.

SUNDY THOUGHTS ON THE 'TXM'

Ronald F. Schatz

The purpose of this short article is to examine the reaction of DX'ers - or lack of reaction - to Terminator Transit Mechanix (TXM); it will also allow us to answer some of the most frequent questions posed to us about it.

Speaking of "lack of reaction", that's my most prominent reaction. Relatively few DX'ers are writing in about it. However, on initiating comments at conventions or on the land line, the average DX'er expresses tremendous enthusiasm for the articles and admires my "technical genius" or whatever, but regrets that it's all "above my head", this in spite of extreme efforts to make the articles understandable even to the contributing editors of S9 magazine, let alone the average DX'er. Obviously, we have failed on that account.

Perhaps we can pass on some advice re technical articles: They are not meant to be "read" but to be studied, much as one studies a school assignment. A little ambition and a positive attitude also help. The reward is a very useful skill that can help you enjoy your hobby to a much greater extent. On today's increasingly crowded band technical skills are becoming mandatory if one wants to reach much beyond the neophyte stage in our hobby. As a DX'er you owe it to yourself to take advantage of them. § So much for my lecturing, hi.

Now, did I say that positive ions, rather than electrons, return medium-wave signals? How ridiculous! While positive ions, especially protons, do affect VLF signals, they are far too heavy (compared to electrons) to react at medium frequencies. What gets me is that only one individual spoke out against it (as of this writing), yet he knows next to nothing about propagation and proved it in his libelous comments in a recent issue of S9 magazine as well as in another club's bulletin. The fact that no responsible individual came forth is very disturbing. By the way, I know of at least two ways to disprove the "positive-ion" theory; pointing to books is not one of them.

Although we are discounting the positive-ion theory, the transfer model is still quite valid for TXM, even though we still can't find anything in a vast quantity of propagation literature that even begins to support it, and I include authors such as Picquenard, Al'pert, Kelso, Davies, Budden, nor back issues of Proc. IEEE/IRE, JGR, and the British Journal of Atmospheric and Terrestrial Physics, and the last mentioned comprises several meters of volumes of almost nothing but ionospheric and propagation articles. The likelihood that we have stepped on something brand new in the field of radio propagation is haunting us!

The most frequent response to TXM in our mail has dealt with requests to computerise it; one NRC'er especially would like to make computerised TXM predictions available to the membership for a small fee per prediction to cover expenses; this is fine with us.

While making TXM calculations without a computer is fairly simple, the computer programme itself is necessarily very big. While both BASIC and FORTRAN IV are suitable source languages for it, we recommend BASIC because of its relative simplicity and time-sharing capabilities. The use of subroutines should greatly reduce the length of the programme. We are thinking of publishing a programme of our own in the future.

In closing, we would like to thank NRC'ers for your support of TXM. Let us know how it's working out for you.

-30-

WHAT?

NOW, FROM THE PEOPLE WHO BROUGHT YOU "THE HAMMARLUND THAT ATE HUBBARD" COMES YAD-80! THREE DAZE OF MEETING THE FACES BEHIND THE MUSINGS IN YOUNGSTOWN, OHIO. MAKE YOUR PLANS NOW. IF YOU THINK YOU CAN MAKE IT PLEASE CONTACT: JERRY STARR, 'SRD RADIO, 401 N. BLAINE AVENUE, YOUNGSTOWN, OHIO 44505 A.S.A.P.

PROFESSIONAL DX'ERS

OR, "PEOPLE GET PAID FOR THIS?"

ARNIM LITTEK

The European Broadcasting Union seeks to maintain a loose form of control over activity in the broadcast bands of the electromagnetic spectrum here in Europe, with an eye to providing some sort of continental control organization. It is very much a police force with nonexistent powers of enforcement.

All activities are within longwave, mediumwave, shortwave, VHF TV, VHF FM, and UHF TV. The portions with which I am concerned are LW and MW, and particularly the latter, since in the NRC home area (region Two) LW is not a broadcast band.

There are seven nodes in the monitoring network of the EBU, fairly well distributed around the continent. The information gathered from these stations is collected weekly and every month the EBU centre in Belgium issues the results. For major changes (i.e. new stations, pirates, major frequency switches) the information is made available to the other monitoring stations just as soon as it is discovered. Between the seven stations (Caversham in England, Helsinki in Finland, Jurbise in Belgium, Limours in France, Lisbon in Portugal, Monza in Italy, and Wittmoor in West Germany) there is such a discovery virtually every day.

Now for a few words on the Wittmoor station. Although I can't say for sure that Wittmoor is typical, I can describe what one of these stations looks like and how the routine of professional DX is carried out. Wittmoor is 29 years old this year. It is the representative station of the ARD (German Federation of Broadcasters) within the EBU system, and is entirely staffed and funded by Norddeutscher Rundfunk. It is situated about 10 miles west and 5 miles north of Hamburg city center in a quiet, undeveloped area, a rare thing in this land. Facilities consist of a shortwave monitoring station, a logging system (only for NDR programs), VHF and UHF relay facilities for mobile broadcast receptions, a field strength measuring hut, and most importantly, a general purpose monitor post equipped for precise frequency measurement. There is also a massive archive there, with loads of information on propagation and EBU and NDR and related (to monitor stations) topics.

The shortwave listening post consists of 2 Rohde and Schwarz EK56/3, a very expensive and very exotic receiver covering .01-30 MHz, an older Telefunken, and an older still RACAL, neither of which are in good shape. It's a crime. The antennas available are switchable through an RF jack field, so really all of Wittmoor's antennas are available, but in principle the most often used is a switcher of rhombus antennas designed for 40 meters, and one of the longwires, depending on the band under scrutiny. The rhombus antenna switcher is fairly effective on SW with 4 rhombuses phased to cover 8 directions on the switch, and an omnidirectional setting from a vertical. There is, in this corner, a small control board to control the audio outputs for convenience's sake, and a Revox recorder.

In the racks containing the UHF-VHF relay equipment is a pair of 30 year old Siemens receivers. I didn't see a model number on them, but if these beauties weren't so dirty (noisy pots, switches, such like) they would be real gems. There is, stuck away behind these racks, a big and ancient Telefunken direction finder, dating prewar. I didn't get to turn the monster on though; there was no power cord on it and it was too far away from the antenna jackfield. The DF antennas for this beast are nowhere to be found.

The field strength measuring hut is a little wooden house about 100 meters away from the main house, with as little as possible electrical noise sources and metallic structures. Electrical and other lines come in through shielded conduits in the floor, and are terminated as quickly as possible. The field strength measuring receivers are a pair of Rohde and Schwarz HFH receivers with accompanying loop antennas. They are supposed to be accurate to within ±1 dB when calibrated, which one must do all the time. They are made to read 0 dB (1 uv/m) to +140 dB, which sounds like 10 V/m. Sadly, one of these beasts was at the shop with its accompanying hard copier while I was there. However I did put the remaining device to some use.

The logging system of NDR is done at Wittmoor too, on a pair of computerized Assman tape recorders with 18 tracks-3 programs in stereo FM takes 6 tracks, MW, TV x3 sound; all use 10 tracks) one of which has digitally coded time on it for easy referral when looking something up. This is required because each tape holds 24 hours and an hour overlap. Sadly though, this is almost never used to verify reports, since no reports ever get to Wittmoor. They are processed at the studio in Hamburg.

Lastly, and most interesting, is the frequency measuring station. This is also the general purpose monitoring post for all but SW. For 30 MHz and up is a nice beast, a Rohde and Schwarz ESM2 with a spectrum analyzer, also R&S I believe. For below 30 MHz there is again a R&S EK56/3 and a superb 25 year old Telefunken E108 LW/4 with a range of .01-2.0 MHz. There is also a Revox FM tuner and tape recorder. Precise frequency measurements are made on a Rohde and Schwarz GU 027 frequency monitor with a counter down to 10⁻¹ Hz and a CRT for Lissajous figure measurements for greater accuracy.

For the EBU, PFM's are made only to the nearest 1/10 Hz. I guess they assume we can always find the station with this accuracy. But for the monitoring of the ARD, Wittsmoor maintains an accuracy to the nearest MilliHertz. At 1 MHz the accuracy required is thus 10⁻⁹. The measurement is made by generating a known RF signal 1 kHz offset from the measured frequency. This is beat against the 1 kHz standard of the R&S frequency monitor to produce the Lissajous figure. Clearly then, requirements are a very stable and accurate 1 kHz source for the frequency monitor, and in particular for the decade generator. All of the house oscillators are run off the R&S Frequency Standard XKE and Frequency Controller XSD which, in themselves, are good to an accuracy of 10⁻⁹. That suffices. But they've taken it a few orders of magnitude further. They are driven in turn on the time station of the German Hydrographical Institute and are always compared to the BBC time station, both of which are driven on atomic clocks which leads to an accuracy of better than 10⁻¹¹. That is like measuring the distance to the moon to the nearest ½ cm., or the distance between New York and Los Angeles to the nearest thousandth of an inch. Fairly accurate! This is the source which drives the 1 kHz generator in the frequency monitor and the Schomandl ND100M frequency decade.

This sophisticated equipment can be used to detect stations that wander in frequency. A somewhat extreme example is Tunisia 630 wandering from 630.090 kHz to 630.075 kHz several times within a week. However most stations are somewhat more stable, such as NDR Hamburg who last month drifted from 972,000.090 to 972,000.0075. That is 82.5 MilliHertz in a month. But the really stable ones are the Italians, with their extensive co-channel simultaneous program networks. They very seldom vary more than a MilliHertz. The accuracy to which the measurement can be made depends also on signal quality. When there are two stations of equal strength either a few Hertz apart or very equal but out of phase, the Lissajous figure becomes very unreadable, either flopping around a great deal or suffering under a great wobble or fuzziness. But, if a typical signal is all alone it is possible to do a PFM sometimes when there is no audio coming through. All that is necessary is enough signal to create the 1 kHz beat frequency.

Antennashave to be the single weakest point here at Wittsmoor. There are fine antennas here for every frequency above 6 MHz, but when compared to the myriad of quality receivers available, the MW-LW antennas are very poor. The only rotatable antennas are the DF antennas, sway over in the field strength measuring hut. The 4 phased SW rhombus antennas are woefully insensitive on MW and are all but useless on LW. The antennas used in the PFM corner are primarily then longwires with a maximum of 40 meters. Certainly not anywhere near the league of the Beverages of our colleagues in northern Scandinavia.

How does one DX every day? I shall describe only the routine for LW-MW. The EBU publishes a list of MW-LW stations in Europe annually, with bi-monthly updates to the subscribers too. Although most of the information comes from the national governments, some of the newest stuff is discovered by the monitoring stations, especially behind the Iron Curtain. Each week, a quarter of the LW-MW spectrum is under observation. The divisions are set at: Band One from 155-281 and 520-765 kHz, Band Two from 774-1053 kHz, Band Three from 1062-1314 kHz, and Band Four from 1323-1602 kHz. Each month they try to randomize the order so that, for example, Band One is not covered everymonth in the first week. The channels are monitored and stations heard are PFM'ed to .1 Hz, signal strength is rated on a scale from 1-5 (a very poor, ill-defined inaccurate way) in three periods of the day-daytime, nighttime, and transition which is defined as ± 1 hour of sunrise or sunset. This way, every month the EBU center in Brussels receives a complete record from seven stations.

For the ARD too, the station monitors the MW frequencies to determine who is dominant at what periods of time on the channels inhabited by the ARD. For these monitoring duties the primary interest is the disturbing effects of co-channel broadcasters, particularly at night. Wittsmoor also provides a precision frequency measurement once a week for NDR transmitters (972 Hamburg, 702 Flensburg, and 828 Hannover/Kiel). Hamburg with 300 kw at 15 miles is very easy to measure accurately. On 702, there is a Westdeutscher Rundfunk station in Herford, which runs // Flensburg. Even though they (the workers at Wittsmoor) insist they are measuring Flensburg, I'm not too sure. The last frequency is a real treat. Kiel with 500 watts at 40-50 miles overrides Hannover with 100 kw at 80-85 miles. No kidding. Because,

when both transmitters are on the air, we measure one frequency difference for Kiel and then, every Tuesday at 10:30, Kiel shuts down for 15 minutes. This is for routine transmitter checks and to allow Wittsmoor to PFM the Hannover transmitter. The difference is there; when Kiel shuts down the PFM changes, albeit slightly. But consistently. Hannover lies at the south edge of the Luneburg Heide, a dry, flat, barren piece of ground which covers virtually all the distance between Hannover and Hamburg. The influence of ground conductivity is very clear.

Sadly the field strength measuring hut is used very seldom. I used it more in my few weeks of irregular visits than it has been used in the last ten years. But, in the 1950's and early 1960's the hut was in regular use when CCIR Working Party B, doing research on propagation curves for medium wave frequencies, was based in Hamburg at the Institut für Rundfunk Technik. A great deal of the gentlemen who worked out of Wittsmoor at that time are still employed by Norddeutscher Rundfunk.

Appendix One: A Week of Field Strength Measurements

531	DDR Leipzig	51+3	51+5	47+6	51+4	49+7
549	DLF Bayreuth	49+2	51+1	50-	52+1	51+1
558	DDR Neubrandenberg	66+1	64+1	66+2	67+1	67+1
567	SFB Berlin	52+1	56+1	53+1	56+1	54+1
576	DDR Schwerin	73	73	71	72	72
594	HR Frankfurt	52	52	46	44	50
603	DDR Wonigusterhausen	50	51	49+1	50+1	51+1
630	SFB Donnenberg	50	51	49	51	51
657	DDR Neubrandenberg	59	59	63	63	59
693	DDR Berlin	--	42+3	--	--	--
	BBC Droitwich	47+2	--	--	41+4	43+5
702	WDR Hereford	53+4	51+3	54+4	54+4	54+3
720	WDH Langenberg	47	45	47	47	47
747	NOS Lopik	57	56	57	28	39
756	DLF Braunschweig	69	69	69	26*	68
783	DDR Burg	63	63	60	61	62
828	NDR Kiel/Hannover	43+8	44+7	43+9	44+9	44+9
936	RB Bremen	70	69	69	69	70
972	NDR Hamburg	87	87	87	89	88
1008	NOS Lopik	53	52	53	26	26
1062	... Kalundborg	56	56	56	55	56
1143	AFN Bremenhaven	57	59	59	59	58
1269	DLF Neumünster	85	84	85	83	83
1593	WDR Langenberg	32	32	31	15*	22*

* = noise level, i.e. no signal

All measurements are in dB above 1 uv/m. All readings taken at 1100-1300 Middle European Time except for Wednesday, 1400-1440. No explanation is known for the dropout of the Dutch stations Thursday and Friday.

DDR- East Germany

DLF- Deutschlandfunk

SFB- Sender Fries Berlin

HR - Hessischer Rundfunk

BBC- Auntie BBC

WDR- Westdeutscher Rundfunk

NOS- Nederlandse Omroep Stichting

NDR- Norddeutscher Rundfunk

AFN- American Forces Network

The + indication is the short term swing in field strength, to a maximum of about 10 seconds. 1593 Langenberg is included to show frequency dependence.

(Armin has also included a long, long list of night and day PFM's from various Europeans. This list has been edited in order to conserve space. A complete list can be had by writing to me. Suffice it to say every W. German was within 1 Hz of channel, every East German was from 1-5 Hz off channel, followed by Poles, Swedes, Norwegians, Dutch, Luxembourgeois, and Monacans (is that right?? CH) from 1 to 10 Hertz off channel. Radio Caroline was the only serious offender, 23 Hertz from true. Africans were a different matter. Chuck Hutton)

1980 BASEBALL RADIO NETWORKS

Compiled by Ken Onyschuk and Bill Hardy (typed by Bill). Any additions, corrections, etc. go to Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520.

SYMBOLS USED BELOW: The 1980 baseball listing follows a slightly different format, to conserve space. It's the same listing used for the NFL listings last September. To save space, names of cities are omitted for each station but the state (or province) is listed, so that you may look it up in your NRC Log. This allows us to get the same list onto half as many pages!

* Daytime-only station

+ AM-FM simulcast of games

** "Limited Time" station

The flagship station is underlined.

& Daytime station with CP to go fulltime soon

Footnotes for each team are explained at the end of that team's listing.

"Specified Hours" station

Any other symbols will be explained

% "Share Time" station

along the way!

ALL-STAR GAME, PENNANT PLAYOFFS, WORLD SERIES. All will be on CBS Radio.

AMERICAN LEAGUE

BALTIMORE ORIOLES	Chuck Thompson, Bill O'Donnell, Tom Marr
610 WIOD-FL ¹	1240 WSSV-VA 1350 WHWH-NJ ¹ 1450 WILM-DE 1500 WTOP-DC
930 WFMD-MD	1280 WHVR-PA WZIX-PA WTHU-MD 1520 WEXM-VA*
960 WBOC-MD	WTTX-VA* 1370 WKIK-MD 1460 WRAD-VA 1550 WXVA-WV*
1000 WKDE-VA*	1300 WFRB-MD 1400 WHLF-VA+ 1470 WTRF-MD*+ 1590 WCBG-PA
1010 WCST-WV*	1330 WASA-MD+ 1410 WRIS-VA*+ 1480 WLEE-VA% 1600 WKEN-DE
1220 WLSD-VA*	1340 WKEY-VA+ 1420 WDDY-VA* 1490 WARK-MD
1230 WFVA-VA+	1430 WNAV-MD WUSS-NJ ¹ (plus 7 FM's)
	WEPM-WV 1440 WKLV-VA* WAYB-VA

1. These three stations carry only "selected games."

BOSTON RED SOX	Ken Coleman, Rico Petrocelli
550 WDEV-VT	1230 WBME-ME# 1270 WSPR-MA 1380 WKTJ-ME*+ 1460 WBET-MA
560 WGAN-ME	WQDY-ME+ 1280 WEIM-MA WSYB-VT 1480 WSAR-MA
580 WTAG-MA	WMNB-MA 1340 WFAU-ME+ 1390 WCAT-MA* 1490 WSIR-FL
590 WROW-NY	WERI-RI+ WDME-ME 1400 WIDE-ME+ WTVL-ME+
610 WIOD-FL ¹	WJOY-VT WHOU-ME+ WMCS-ME WHAV-MA+
790 WRUM-ME*	1240 WMKR-MA WNEH-MA WHMP-MA WMRC-MA
860 WSBS-MA*	WHAI-MA+ WBRK-MA 1420 WWSR-VT* WFAD-VT
920 WJAR-RI	WWON-RI WSTJ-VT ² 1450 WLKN-ME+ 1510 WNLC-CT
950 WAGM-ME	1250 WGUY-ME* 1350 WINY-CT* WRKD-ME+ WITS-MA
1080 WTIC-CT	WARE-MA 1370 WDEA-ME+ WKRI-RI (plus half a dozen FM's)
	WTSA-VT

1. Also on the Baltimore Orioles network.

2. Formerly WTWN, St. Johnsbury, VT.

CALIFORNIA ANGELS Bob Starr, Steve Shannon

710 KMPG-CA plus a regional network to be announced later.

CHICAGO WHITE SOX Harry Caray, Joe McConnell, Jim Piersall

780 WBEM-IL only. No regional network.

CLEVELAND INDIANS Joe Tait, Herb Score

900 WFRO-OH*	1100 WWWE-OH 1340 WNCO-OH 1420 WKNT-OH*+ 1590 WAKR-OH
960 WWST-OH*	1240 WBBW-OH+ 1400 WMAN-OH 1540 WBCO-OH*+ 1600 WAQI-OH*
990 WTCI-OH*	1280 WONW-OH 1450 WLEC-OH+ WBTC-OH* (plus 3 FM's)

DETROIT TIGERS	Ernie Harwell, Paul Carey
590 WKZO-MI	920 WMPL-MI*+ 1230 WCUZ-MI 1340 WMTE-MI 1450 WATZ-MI+
760 WJR-MI	930 WECM-MI WS00-MI+ WMBN-MI+ WHTC-MI+
790 WSGW-MI	970 WUPY-MI*+ WSTR-MI+ 1370 WNWAM-MI+ WKLA-MI
850 WKHZ-MI	1150 WCEN-MI 1240 WCBY-MI+ 1380 WPLB-MI WNBY-MI
900 WATC-MI*	1220 WBCH-MI*+ 1280 WFYC-MI*+ 1400 WTCM-MI+ 1480 WIOS-MI*+
	1290 WHGR-MI WSJM-MI 1490 WMPX-MI (plus 4 FM's)

Not enough room here to start the Kansas City listing, so I thought I'd mention that Ken Onyschuk will probably take over the major league baseball listings for NRC beginning with the 1981 season. Ken handled about half of this year's teams, and it certainly helped me a great deal! I have too many other irons in the fire at this time so I must yield this responsibility. Likewise, I doubt that I'll be able to handle the NFL, NBA, and college football/basketball network listings next fall. Are there any volunteers out there willing to take over? If so, please drop a line to me (Bill Hardy) at the address atop this page, and/or drop a line to Pat Hartlage at NRC HQ in Louisville. Thanks to everyone for their support these 3 years!

1980 baseball list, continued

KANSAS CITY ROYALS	Denny Matthews, Fred White
580 WIBW-KS ¹	1220 KOFO-KS*+ 1350 KRNT-IA 1440 KCHE-IA*+ 1530 KDSN-IA*
680 KFQJ-MO	1230 KTNC-NE 1360 KSCJ-IA 1450 KWBB-KS KMAM-MO*
690 KGPF-KS	1240 WINK-FL KOYY-KS*+ KOKO-MO 1540 KLKC-KS*
740 KRMG-OK	KIUL-KS 1370 KGNO-KS KLMX-NM 1560 KABI-KS*
880 KRVN-NE	KAKE-KS KIKS-KS*+ KGFF-OK 1570 KNDY-KS*
940 KSWM-MO*	KNEM-MO 1390 KAMO-AR*+ 1460 KKOV-KS*+ KLEX-MO*
960 KMA--IA	KFOR-NE KNCK-KS*+ 1470 KARE-KS KOLB-OK*
980 KMBZ-MO ²	1260 KGBX-MO 1400 KCOG-IA+ KGHM-MO* KVRA-SD*
1060 KLMC-CO*	1280 KSOK-KS KAYS-KS 1490 KKAN-KS# 1580 KESM-MO*
1130 KYOO-MO*+ ³	KDKD-MO*+ 1420 KULY-KS KDMO-MO KNIM-MO*
1150 KSAL-KS	1300 KMMO-MO*+ KBTN-MO& KDRD-MO 1590 KVGB-KS
1190 KRJZ-KS*	1340 KSEK-KS 1430 KAOL-MO*+ 1510 KANS-KS*+ (plus 21 FM's)
1200 WOAI-TX	KGFW-NE KRGJ-NE+ KTTT-NE*+ 1. Flagship station WIBW is off the air Monday thru Friday from 1330 to 1830 Eastern Time. Weekend afternoon games are delayed until 1830.

2. KMBZ is the network outlet in Kansas City, MO. WIBW-580 is the official "flagship" station and holds the radio rights.
3. Formerly KBLR, Bolivar, MO.
4. New 2.5-kw daytime station in Beloit, KS, now on the air.

MILWAUKEE BREWERS	Bob Uecker, Lorn Brown
550 WSAU-WI	960 WTCH-WI+ 1240 WJPDR-MI+ 1340 WLDY-WI 1440 WNFL-WI
570 WMAM-WI	980 WNBI-WI+ WOMI-WI 1350 WPDR-WI+ 1450 WMIQ-MI
580 WKTY-WI	WPRE-WI+ WOBT-WI 1360 WMNE-WI+ KFIZ-WI
590 WJMS-MI	1090 WISS-WI+ WJMC-WI 1380 WBEL-IL WDLB-WI
620 WTMJ-WI	1230 WIKB-MI 1260 WWIS-WI+ 1400 WCYC-MI ¹ WRGO-WI+
680 WDBC-MI	WHBY-WI WEKZ-WI+ 1490 WIGM-WI+ 1550 WEVR-WI*
910 WDOR-WI*+	WCLO-WI+ 1270 WRJC-WI+ 1290 WCOW-WI+ 1310 WIBA-WI 1430 WBEV-WI& 1. Formerly WHDF, Houghton, MI.

2. Formerly WBIZ, Eau Claire, WI.

NEW YORK YANKEES Phil Rizzuto, Bill White, Frank Messer, Fran Healy 1010 WINS-NY plus a regional network to be announced later.

OAKLAND A's (Team has not signed a radio contract for 1980 as of late March)

SEATTLE MARINERS	Ken Wilson, Dave Niehaus
570 KVI--WA	920 KITN-WA 1280 KIT--WA 1450 KBKW-WA 1550 KGAR-WA (plus 2 FM's)
	KXLY-WA 1400 KEDO-WA 1490 KTEL-WA
TEXAS RANGERS	Jon Miller, Bill Merrill
710 KGNC-TX	820 WBAP-TX 1150 KNED-OK 1300 KXXO-OK 1490 KBIX-OK (plus 3 FM's)
740 KTRH-TX	1010 KLRA-AR 1200 WOAI-TX
TORONTO BLUE JAYS	Tom Cheek, Early Wynn
950 CKBB-ON	980 CFPL-ON 1090 CKKW-ON 1430 CKFH-ON 1450 CHUC-ON (no FM's)

NATIONAL LEAGUE

ATLANTA BRAVES	Ernie Johnson, Pete Van Wieren, Skip Caray
560 WIS--SC	1070 WNCT-NC 1270 WTNT-FL 1400 WSGC-GA 1470 WCLA-GA*
580 WGAC-GA	1130 WMGA-GA 1280 WSAT-NC WCOH-GA+ WBIG-NC
600 WSJS-NC	1170 WCOV-AL 1290 WWSA-GA ¹ WKDY-SC 1490 WMCG-GA
710 WKRG-AL	1230 WAUD-AL 1310 WTKI-NC 1410 WDAZ-GA* WRED-GA
750 WSB--GA	WGFG-FL 1320 WAGF-AL WLAQ-GA WMRB-SC
850 WYDE-AL	WSBB-FL 1340 WBBT-GA 1420 WRGC-GA 1590 WVNA-AL (plus 11 FM's)
930 WJAX-FL	WELJ-GA 1450 WGPC-GA+ WBHF-GA
	WMGR-GA WFAI-NC WOKE-SC WKEU-GA
WSOC-NC	1240 WBHB-GA WBAC-TN WMVG-GA
940 WMAZ-GA	WLAG-GA 1370 WDEF-TN WLAR-TN
970 WFLA-FL	WWNS-GA 1390 WHMA-AL

1. Formerly WTOC, Savannah, GA.

CHICAGO CUBS	Vince Lloyd, Lou Boudreau
720 WGN-IL	plus a regional network to be announced later.
CINCINNATI REDS	Marty Brenneman, Joe Nuxhall
560 WJLS-WV	1010 WMEV-VA*+ 1250 WCHO-OH*+ 1390 WMPD-OH*+ 1490 WKBV-IN*
580 WCHS-WV	1050 WHEO-FL 1270 WKVY-KY+ 1400 WCYN-KY+ WKAY-KY*
630 WLAP-KY	WNES-KY*+ 1290 WOMP-OH* WPAY-OH+ WBEX-OH+
680 WCTT-KY	1110 WCBR-KY*+ WHIO-OH WBTH-WV WMOA-OH
700 WLW--OH	1150 WLQC-KY*+ WVOV-WV 1410 WLBJ-KY WOPI-TN
790 WHTH-OH ¹	WIMA-OH 1310 WIFE-IN 1440 WPGW-IN* 1520 WSVL-IN
910 WPFB-OH	1230 WJNO-FL 1330 WKOV-OH*+ WHIS-WV 1540 WCBK-IN*
920 WMNI-OH	WHIR-KY 1340 WBII-WN+ 1450 WSTU-FL WNRE-OH**
	WLIV-TN*+ WANO-KY WLCB-IN WTCO-KY+ 1550 WCVL-IN
930 WGNT-WV	WIRO-OH WMON-WV WLKS-KY 1570 WKKS-KY*
970 WAVE-KY	1240 WHBU-IN WXEE-WV WPAR-WV WPTW-OH*
990 WJEH-OH*	WFTM-KY+ 1350 WIOW-IN+ 1480 WTHI-IN (plus 36 FM's)
1000 WHTH-OH* ¹	WSFC-KY+ 1380 WQHK-IN ² WHIZ-OH 2. Formerly WMEE, Fort Wayne, IN.

1. WHTH, Heath, OH, now daytimer on 1000, has CP to move to 790 fulltime.

1980 baseball list, continued.

HOUSTON ASTROS Gene Elston, DeWayne Staats
 560 KVLY-TX 950 KPRC-TX 1230 KSIX-TX 1280 WGSO-LA 1410 KNAL-TX
 630 KMAC-TX+ 980 KFRD-TX+ 1300 KWTX-TX 1350 KTXJ-TX+ 1450 KCTI-TX
 710 KURV-TX 1150 WJBO-LA 1270 KIOX-TX 1380 KBOP-TX* (plus 18 FM's)

LOS ANGELES DODGERS

In English: Vin Scully, Jerry Doggett, Ross Porter
 610 KAVL-CA 920 KVEC-CA 1290 KMEN-CA+ 1440 KUHL-CA 1490 KGUD-CA
 620 KTAR-AZ 970 KCHV-CA 1300 KROP-CA 1450 KPSI-CA 1560 KPMC-CA
 720 KDWN-NV 1230 KIBS-CA 1370 KWRM-CA KVEN-CA+ (plus 4 FM's)
 790 KABC-CA 1250 KTMS-CA 1400 KTUZ-AZ KONG-CA

In Spanish: Jaime Jarrin, Rudy Hoyos
 1020 KTNG-CA only. No regional network.

MONTREAL EXPOS

In English: Dave Van Horne, Duke Snider
 570 CFC-B-NF 930 CFBC-NB 1340 WMSA-NY# 1450 WWSC-NY 1490 WICY-NY
 600 CFCF-QU 960 WEAV-NY 1400 WBRL-NH WSNO-VT (plus 2 FM's)

800 CJBC-ON

In French: Jacques Doucet, Claude Raymond
 550 CHLN-QU 730 CKAC-QU 1280 CKCV-QU 1350 CHAL-QU 1450 CHEF-QU
 560 CKCN-QU 900 CKVD-QU 1310 CHGB-QU 1400 CJFP-QU CHRT-QU
 610 CKML-QU 970 CKCH-QU 1320 CJSO-QU CKRN-QU 1490 CKLR-QU
 630 CHLT-QU 1240 CJAF-QU 1340 CHAD-QU CKSJ-QU (no FM's)
 710 CIPC-QU CKLS-QU CKMG-QU 1420 CJMT-QU CFLM-QU

NEW YORK METS Bob Murphy, Ralph Kiner, Steve Albert

570 WMCA-NY plus a regional network to be announced later.

PHILADELPHIA PHILLIES Harry Kalas, Rich Ashburn, Andy Musser, Chris Wheeler
 850 WEEU-PA 1220 WJUN-PA* 1340 WTAN-FL 1400 WEST-PA 1490 WAZL-PA
 930 WTHD-DE*+ 1230 WPBZ-PA WBRE-PA+ WRK-PA WLPA-PA¹
 1060 KW-PA 1270 WLBR-PA 1350 WHWH-NJ 1420 WCOJ-PA WBCB-PA
 1070 WKOK-PA 1320 WGET-PA 1360 WPPA-PA 1450 WIIN-NJ 1580 WRDI-NJ*+
 1150 WDEL-DE 1480 WISL-PA+ (plus 5 FM's)

1. Formerly WDDL, Lancaster, PA.

PITTSBURGH PIRATES Lanny Frattare, Dave Martin

590 WMSB-PA 1230 WJNO-FL 1340 WCMI-KY 1400 WWSF-PA¹ 1470 WFAR-PA
 920 WMNN-WV WTIV-PA WSTV-OH WKBI-PA 1490 WTRL-FL
 970 WBLF-PA* 1250 WLEM-PA* WCVI-PA WBBN-WV WESB-PA
 1020 KDKA-PA 1270 WCBC-MD WTRN-PA WKWK-WV 1560 WTNS-OH*
 1150 WHUN-PA*+ 1280 WKST-PA 1370 WWCB-PA 1420 WGED-PA+ 1580 WANB-PA*+
 1310 WBFD-PA*+ 1390 WFMT-OH 1440 WAJR-WV (plus 12 FM's)
 WKLP-WV*+ 1450 WFRA-PA+ WMAJ-PA

1. WWSF is the present call letter assignment for the station in Loretto, PA, on 1400. However, the regional network lists "WAMQ, 1400, Loretto," so maybe a call-letter change is planned??

ST. LOUIS CARDINALS Jack Buck, Mike Shannon, Dan Kelly

Help! Once again, we don't expect to have a listing from the Cardinals, so we ask all DXers in and around the St. Louis network coverage area to send in listings of any and all stations they hear carrying Cardinals baseball via KMOX-1120 (the flagship again). A good starting point would be the 1979 list printed in the 6/11/79 DXN, page 13 (David Lewis somehow found it in a newspaper somewhere in Missouri!). Please send St. Louis network listings to Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520 as soon as possible. Thanks in advance!

SAN DIEGO PADRES

In English: Dave Campbell, Eddie Doucette
 760 KPMB-CA only. No regional network.

In Spanish: Gustavo Lopez, Mario Thomas

590 XEHQ-Son. 970 XEEZ-Son. 1240 XEQB-Son. 1370 XEHF-Son. 1420 XEXX-B.C.
 630 XEK-Sin. 980 XEKE-Son. 1360 XESA-Sin. 1410 XECF-Sin. 1450 XESS-B.C.
 910 XEO-B.C. 1010 XEEB-Son. (no FM's)

Note: Last year, XEXX carried only home games at San Diego plus road games at Los Angeles. This year, XEXX is supposed to carry "all games live."

SAN FRANCISCO GIANTS Lindsey Nelson, Hank Greenwald

680 KNBR-CA plus a regional network to be announced later.

Acknowledgements: Thanks to Mike Bernardin, Kenn Carr, Tim Cronin, Bill Hale, Jef Jaisun, Mort Meehan, Ken Onyschuk, and Bob Yentema. They all sent in bits of information which you see in this listing.

If you noticed any omissions, additions, or corrections which should be included in this list, please send them to Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520 at once. Thanks, 73, and good DX!

GREAT CIRCLE CALCULATIONS

By Richard Noel Allen

A program written in Microsoft Level III BASIC for the Radio Shack TRS-80 Microcomputer.

```

10 CLEAR1000:PRINT"GREAT CIRCLE CALCULATIONS."
20 LINEINPUT"LOCATION ONE? ";A$;
30 INPUT"LONGITUDE IN DEGREES AND MINUTES";D1,M1
40 INPUT"DIRECTION FROM GREENWICH";GA$
50 C1=D1+(M1/60):IFGA$="EAST"THENC1=C1*(-1)
60 INPUT"LATITUDE IN DEGREES AND MINUTES";D2,M2
70 INPUT"DIRECTION FROM EQUATOR";EA$
80 C2=D2+(M2/60):IFEA$="SOUTH"THENC2=C2*(-1)
90 LINEINPUT"LOCATION TWO? ";B$;
100 INPUT"LONGITUDE IN DEGREES AND MINUTES";D3,M3
110 INPUT"DIRECTION FROM GREENWICH";GB$
120 C3=D3+(M3/60):IFGB$="EAST"THENC3=C3*(-1)
130 INPUT"LATITUDE IN DEGREES AND MINUTES";D4,M4
140 INPUT"DIRECTION FROM EQUATOR";EB$
150 C4=D4+(M4/60):IFEB$="SOUTH"THENC4=C4*(-1)
180 IFC1>0ANDC3>0THEN190ELSE200
190 IFC1>C3THEN260ELSE270
200 IFC1<0ANDC3<0THEN210ELSE220
210 IFC1>C3THEN270ELSE260
220 IFC1>0ANDC3<0THEN240ELSE230
230 IFC1<0ANDC3>0THEN250
240 IFC1-C3>180THENC3=C3+360:GOTO270:ELSE260
250 IFC3-C1>180THENC3=C3+360:GOTO260:ELSE270
260 L1=C1:L2=C2:L3=C3:L4=C4:Z$=A$+Y$:B$=GOTO280
270 L1=C3:L2=C4:L3=C1:L4=C2:Z$=B$:Y$=A$:
280 R=.0174533*D=57.29578:A=L1-L3
290 Z=COS(A*R):Y=COS(L4*R):X=COS(L2*R):W=Z*Y*X
300 V=SIN(L4*R):U=SIN(L2*R):T=V*U+W:S=-ATN(T/SQR(-T*T+1))+1.5708
310 Q=S*D:B=Q*60.09:C=B*1.609
320 CLS:PRINT"DISTANCE BETWEEN ";Z$;" AND ";Y$;" IS";B;"MILES, OR";C;
330 "KILOMETERS."
340 E=A/2:O=TAN(P*R):N=1/0:F=(L4-L2)/2:G=(L4+L2)/2
340 M=COS(F*R):L=SIN(G*R):K=(N*M)/L:J=ATN(K):I=J*D
350 Z=SIN(F*R):Y=COS(G*R):A=(N*Z)/Y:X=ATN(A):W=X*D
360 IFG<0THENV=360-(I+W+180):U=(I-W)+180:ELSEV=360-(I+W):U=I-W
370 PRINT"AZIMUTH FROM ";Y$;" IS";V;"DEGREES."
380 PRINT"AZIMUTH FROM ";Z$;" IS";U;"DEGREES."
390 PRINT#576,"TO CONTINUE, PRESS 'ENTER'.":
400 PRINT"TO CHANGE LOCATION ONE, PRESS 'K' AND 'ENTER'.":
410 INPUTK$
420 IFK$="K"THEN100ELSE430
430 CLS:PRINT"LOCATION ONE IS ";A$;" AT";D1;".";M1;GA$;" /";D2;".";M2;
        EA$;".":
440 GOTO90
999 GOTO999

```

Note: Mr. Allen notes that lines 180 to 270 inclusive represent the "distance calculation"; and 330 to 360 inclusive is the "azimuth calculation."

This program will compute Great Circle distances in statute miles and kilometers, as well as calculate the azimuth to and from the coordinates entered.

Program changes necessary to run in Level II BASIC:

```

20 PRINT"LOCATION ONE":INPUTA$
90 PRINT"LOCATION TWO":INPUTB$

```

Program output:

```

GREAT CIRCLE CALCULATIONS.
LOCATION ONE? FORT LAUDERDALE, FLORIDA [ENTER]
LONGITUDE IN DEGREES AND MINUTES? 80 [ENTER]
?? 16 [ENTER]
DIRECTION FROM GREENWICH? WEST [ENTER]
LATITUDE IN DEGREES AND MINUTES? 26 [ENTER]
?? 06 [ENTER]
DIRECTION FROM EQUATOR? NORTH [ENTER]
LOCATION TWO? OSAKA, JAPAN [ENTER]
LONGITUDE IN DEGREES AND MINUTES? 135 [ENTER]
?? 27 [ENTER]
DIRECTION FROM GREENWICH? EAST [ENTER]
LATITUDE IN DEGREES AND MINUTES? 34 [ENTER]
?? 40 [ENTER]
DIRECTION FROM EQUATOR? NORTH [ENTER]

```

DISTANCE BETWEEN OSAKA, JAPAN AND FORT LAUDERDALE, FLORIDA IS 7631.24 MILES, OR 12278.7 KILOMETERS.
 AZIMUTH FROM FORT LAUDERDALE, FLORIDA IS 329.173 DEGREES.
 AZIMUTH FROM OSAKA, JAPAN IS 34.0227 DEGREES.

TO CONTINUE, PRESS 'ENTER'.
 TO CHANGE LOCATION ONE, PRESS 'K' AND 'ENTER'.
 ? [ENTER]

LOCATION ONE IS FORT LAUDERDALE, FLORIDA AT 80° . 16 WEST / 26 ° 6 NORTH.
 LOCATION TWO? WELLINGTON, NEW ZEALAND [ENTER]
 LONGITUDE IN DEGREES AND MINUTES? 174 [ENTER]
 ?? 50° [ENTER]
 DIRECTION FROM GREENWICH? EAST [ENTER]
 LATITUDE IN DEGREES AND MINUTES? 41 [ENTER]
 ?? 05 [ENTER]
 DIRECTION FROM EQUATOR? SOUTH [ENTER]

DISTANCE BETWEEN WELLINGTON, NEW ZEALAND AND FORT LAUDERDALE, FLORIDA IS 8124.4 MILES, OR 13072.2 KILOMETERS.
 AZIMUTH FROM FORT LAUDERDALE, FLORIDA IS 235.273 DEGREES.
 AZIMUTH FROM WELLINGTON, NEW ZEALAND IS 78.2911 DEGREES.

TO CONTINUE, PRESS 'ENTER'.
 TO CHANGE LOCATION ONE, PRESS 'K' AND 'ENTER'.
 ? K [ENTER]

GREAT CIRCLE CALCULATIONS.
 LOCATION ONE?

FCC NEWS RELEASE - Continued.....

Report No. 17434

BROADCAST ACTION

April 3, 1980 - BC

STATION WAZE TO GIVE DUNEDIN, FLA., ITS FIRST LOCAL NIGHTTIME AM RADIO SERVICE

The Commission has waived part of its clear channel radio station rules to allow Radio Clearwater, Inc., licensee of AM station WAZE, to provide Dunedin, Fla., its first local nighttime AM radio service.

WAZE also was allowed to change its city of license from Clearwater, Fla., to Dunedin. The Commission denied an opposing petition by clear channel station WWL, New Orleans, which broadcasts on a frequency (870 kHz) only 10 kHz from that of WAZE (860 kHz).

The authorization to WAZE was subject to a condition that, if WWL ever applies and the FCC accepts its application to increase its nighttime operating power, WAZE will either stop broadcasting at night or modify its nighttime operation so that it causes no interference to WWL's proposed operation.

FCC rules, as a result of a 1961 clear channel proceeding, prohibit interference by any station broadcasting on a frequency within 30 kHz of a clear channel station, calculated on the basis of an assumed operating power of 750 kW for the clear channel station. Actual maximum power for any AM radio station is now and was then 50 kW.

The Commission in the 1961 proceeding considered but did not resolve the question of how best to use clear channels to provide the best feasible service to less densely populated areas.

Two alternatives were identified: authorizing existing clear channel stations to operate at "superpower" (more than the 50 kW maximum) and greatly extend their service areas, or authorizing additional stations to operate on the 25 clear channel frequencies with no limitation on operating hours. Hours of operation are a major consideration because of the greater nighttime range of radio and the resulting potential for interference.

At least one station with unlimited hours has been authorized to operate on each of 14 clear channels, and a decision is still pending to determine the future use of all 25 clear channels, including the remaining 11 unduplicated channels.

The 750-kW power level was established as a maximum for purposes of the clear channel proceeding. The existing 50 kW maximum reflects policy developed over the years since the inception of radio, in view of the number of stations operating in the United States and the limited number of frequencies in the AM band. Stations in some other countries operate at power greater than 750 kW, but in most cases they are government-operated stations designed for specific service requirements.

WAZE would interfere with WWL's signal if WWL broadcast at 750 kW, which would extend its effective field over Florida. But the Commission decided it would be unreasonable to deny WAZE's application and deprive Dunedin of nighttime service to protect WWL's potential to operate at 750 kW.

Terming that eventuality "highly unlikely," the Commission added that, in the case of WWL, at least, it was no longer necessary "to preserve the high degree of flexibility which the rule has heretofore provided." But to avoid foreclosing WWL's potential to operate at superpower before a final decision on maximum power is adopted, it imposed the condition on WAZE.

Action by the Commission March 12, 1980, by Memorandum Opinion and Order (FCC 80-130). Commissioners Ferris (Chairman), Quello, Washburn, Fogarty, Brown and Jones.

YAD!

DO YOU HAVE LOCALS ON 570, 600, 790, 940, 1140, 1240, 1280, 1330, 1390, 1440, 1470, 1500, 1540 and 1570? IF SO, YOU'LL FEEL RIGHT AT HOME IN YOUNGSTOWN, OHIO. MAKE YOUR PLANS TO ATTEND YAD-80 IN YOUNGSTOWN ON MEMORIAL DAY WEEKEND, MAY 24-26! IF YOU ARE COMING, CONTACT: JERRY STARR, WSRD RADIO, 401 N. BLAINE AVENUE, YOUNGSTOWN, OHIO 44505

FIFTY STATES FROM N.Y.C.

BILL BERGADANO

While this article is geared towards new DXers or those new to NYC, veterans of the BCB may find the info a help. Any comments, pro or con, may be sent to me at 39 Marble St., Staten Island, NY 10314. States I've not logged are marked **, but I have noted the best bets.

ALABAMA - due to an almost weekly ET, WMOO is well heard here on 1550. If post-midnight's too late, try WEYY, Talladega, 1580 at SSS, it's well heard here.

ALASKA** - maybe the toughest on the EC. We may need a KFAR DX Test along with a WNBC SP. CPC letters anyone?

ARIZONA - KNIX-1580 made it here recently on an apparent ET. However, 620 is clear MM's after WVNJ s/off making KTAR in Phoenix a good choice. WVNJ SP is MM 12-5 AM.

ARKANSAS - KAAY-1090-Little Rock is in often at SSS w/loud copy over WBAL. However, if WBAL is too strong at your QTH, KLRA-1010-Little Rock makes it thru WINS 0100-0130. KAAY doesn't make it thru on MM during WBAL SP, CKKW does.

CALIFORNIA - KFI-640-Los Angeles does make it once in awhile. If the Cuban on 640 is too strong try KDAY-1580-Santa Monica. It has been heard MM's by Jack Kerman on Staten Island.

COLORADO - KOA-850 at New York SRS or WEEU

CONNECTICUT - so simple. WICC-600-Bridgeport during the day and WTIC-1080-Hartford all night.

DELAWARE - WDEL-1150-Wilmington has been noted at my QTH at noon, but, best at SSS. Also, WDOV-1410-Dover does QRM WPOP at SSS.

DISTRICT OF COLUMBIA - Are you kidding? WTOP-1500 at SSS-SRS.

FLORIDA - hmm. WGTO-540-Cypress Gardens at SSS or on ET. WIOD-610-Miami makes it past WVNJ slop 12-4 am or WSUN-620-St. Petersburg on MM's 12-5 am.

GEORGIA - so easy via WSB-750-Atlanta.

HAWAII**-best bet KUMU-1500 in WTOP SP. WNBC slop makes KORL-650 too hard.

IDAHO - the only chance might be KBOI-670-Boise, but, only if WNBC/WMAQ go off one MM.

ILLINOIS - like cake. WLS-890-Chicago or WCFL-1000-Chicago make it past WCBS/WINS slop nightly. Also WJJD-1160-Chicago at SSS.

INDIANA - WWO-1190-Fort Wayne makes it here 7 nights a week.

IOWA - WHO-1040-Des Moines does make it here frequently, but, if WHN-1050 slop is too much, KXEL-1540-Waterloo usually battles w/WPTR-and usually wins, hi.

KANSAS** - best bet is KGFG-690-Coffeyville, as Staten Island DXer Jack Kerman has heard them. He's only 3 miles from my QTH, so, best bet.

KENTUCKY - WHAS-840-Louisville.

LOUISIANA - WWL-870-New Orleans makes it by WCBS. But, if WCBS-880 slop is too much look for KLOU-1580-Lake Charles on MM's.

MAINE - There's an old saying, "As Maine goes, so goes the nation." However, the other states are easier, hi. But seriously, WCSH-970-Portland during WWDJ daily SP, 1:30-6 am, or, WLBY-620-Bangor on MM's.

MARYLAND - a laugh. WBAL-1090-Baltimore all day and night.

MASSACHUSETTS - If you're sadist look for WITS-1510-Boston, like people in Boston have to, hi. If you want an easy one, WBZ-1030-Boston is a sitting duck at night.

MICHIGAN - although WABC can make copy rough, WJR-760-Detroit is best bet. However, if your only dial time is SSS, look for WTHM-1530-Lapeer whom I note daily.

MINNESOTA - WCCO-830-Minneapolis puts a potent signal in this area w/WNYC on. However, they are easiest on MM's.

MISSISSIPPI - WPMP-1580-Pascagoula at NY SSS, or, WCPC-940-Houston also at SSS. Twice this season I've logged WCOI-1460-Moss Point at SSS.

MISSOURI - KMOX-1120-St. Louis puts in a nice signal w/WNEW on (when are they off?, hi.) Also, KATZ-1600-St. Louis is in MM's during WWRL/WUNR SP.

MONTANA** - I won't comment on this one, except, try KOFI-1180 on WHAM SP. Come to think of it, does WHAM still have a SP?

NEBRASKA - WOW-590-Omaha is fair in WARM SP MM's, 12-5am.

NEVADA** - best bet might be KOH-630-Reno on MM's, unless KOBY-1550 runs an ET. CPC letters anyone?

NEW HAMPSHIRE - WFEA-1370-Manchester makes it past WBNX slop during the night. Is this one truly a tough one to verie? If so, how did I manage one?

NEW JERSEY - WCTC-1450-New Brunswick booms in during day hours, or look for WJDM-1530-Elizabeth SRS-SSS.

NEW MEXICO**-unless you can coax WABC to go off one night you'll lose a lot of sleep looking for KOB-770-Albuquerque, hi.

NEW YORK - unless you like to cheat, WNBC-660 is one way. Or, look for WKW-1520-Buffalo or WPTR-1540-Albany. (To find WPTR look for the slop they leave on 1530, then work up.)

NORTH CAROLINA - WBT-1110-Charlotte is so simple all night.

NORTH DAKOTA - no easy task. I would suggest WDAY-970-Fargo during WWDJ SP.

OHIO - if you haven't logged this one yet you're having troubles.

ONE-1100-Cleveland is so simple.

OKLAHOMA - KRMG-740-Tulsa is audible thru CBL OC after 1:09 am s/off, but not later (why?). So listen to CBL s/off. Only heard later than 1:14 am once on ET.

OREGON** - unless WOZO kills its OC and CHTN goes off one MM that's the only chance for KEX-1190-Portland.

PENNSYLVANIA - I could write a book. During the day WAEB-790-Allentown is loud. Nights try for WPEN-950-Philadelphia who is always loud here.

RHODE ISLAND - the best shot for this tiny state is WJAR-920-Providence who puts a nice signal down this way when there is little WPAT-930 slop. Or, try WPRO-630-Providence on MM's, but CFCY usually is too strong.

SOUTH CAROLINA - No one station is the best bet, however, the two to look for are WBSO-1550-Bennettsville and WTMA-1250-Charleston who sneaks past WTAE most nights.

SOUTH DAKOTA - at one time a toughie, but thanks to KAAA-1560-Aberdeen not anymore. They can be heard at 1 am w/CBS nx during WQXR SP w/fair sig.

TENNESSEE - WSM-650-Nashville is never loud here due to WNBC. A better bet is WLAC-1510-Nashville who is ten times stronger than WRAN-Dover, NJ only 25 miles away.

TEXAS - WBAP-820-Fort Worth or WOAI-1200-San Antonio. If you're a Spurs fan like me, look for WOAI, hi.

UTAH - KSL-1160-Salt Lake City is quite strong here at nights, but the best time for them is 3-5am ELT when they rival WWVA

VERMONT - not until December '79 did I finally log this one--WDEV-550-Waterbury. They are noted @ SSS. Best bet.

VIRGINIA - if you can cut the WNEW slop, look for WRVA-1140-Richmond. However, if WNEW is too much, look for the wacko ET's on MM's from WGOE-1590-Richmond who come in quite loud here.

WASHINGTON** - I don't know if I should have marked this one **, as I have a tentative on KOMO-1000-Seattle this past MM, but WINS was too much. However, with the WCFL SP MM's, and if I can arrange another WINS SP, they would make it here. Best time 3-5 am ELT.

WEST VIRGINIA - oh, come on! WWVA-1170-Wheeling, w/c&w SSS-SRS with an excellent signal.

WISCONSIN - really, this state is not that hard. I recently logged WYTL-1490-Oshkosh @ 2am, but the best shot is WTMJ-620-Milwaukee on MM's in WVNJ SP. Also, WTMJ is a quick verie.

WYOMING**-if WBZ ever goes and has an SP again, KTWO w/50kw might make it. For KTWO to be heard, pest WOSO has to be off, as they are in when WBZ was on SP's.

So, there you have it. 50 states plus D.C. The receivers at this QTH are a Panasonic RF-1150 and a TRF. Antennae are a 50 foot long wire and a home brew loop. I would appreciate all comments pro and con, (mostly pro, hi!) 73s.

YAD! YAD! YAD!

NOW, FROM THE PEOPLE WHO BROUGHT YOU "ORM ENCOUNTERS OF THE LOUD KIND" COMES: YAD-80, THREE DAZE OF DX FUN IN YOUNGSTOWN, OHIO, FOR MORE INFORMATION, OR TO MAKE YOUR RESERVATIONS, CONTACT: JERRY STARR, WSRD RADIO, 401 NORTH BLAINE AVENUE, YOUNGSTOWN, OHIO 44505