



OLDEST MEDIUM WAVE DX CLUB Established 1933 3 2 ssues per year \$13.25 Airmail \$10,00 First Class \$7.50 Third Class

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VOLUME 37

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"Please renew my NRC membership for a fourth year. I couldn't possibly be without the NRC it's the best!" (Bob Hostettler)

IN THIS ISSUE



Direct Coupled Loops - Dave Fischer Geomagnetic Measurements - Gray Scrimgeour Report from the Pacific - Richard Wood Verification Signers - Ernie Cooper Report from Thailand - Glenn Hauser

NEW MEMBERS!

- *Dr. Harold E. Cox, 80 Virginia Terrace, Forty Fort, Pa. 18704
- *Angel Garcia, 17 Fort George Hill, New York, N.Y. 10040
- *Bill Stone, Box 97, Claremont, Ontario (Rejoins welcome back)
 *Jack Widner, 4818 Farrington Ave., Indianapolis, Ind. 46201

Welcome to the NRC, gentlemen, we hope to be reading your contributions often here in the pages of DX NEWS. Your new member kits are being mailed out now; please allow a couple of weeks for delivery.

CONGRATULATIONS!

To Wes and Shirley Boyd on the birth of a daughter, Shelia Marie, born January 10th...

CLARENCE BURNHAM STRICKEN

According to a letter from his sister-in-law, Clarence is presently quite ill in a Connecticut hospital; why not drop a get-well card to this veteran member of the NRC? His Post Office Box is now closed but you can get a card or note to him through his sister-inlaw; the address is 99 Maplewood Park, Gloucester, Mass. 01930. We all wish Clarence a speedy recovery!

SPECIALS

Kc/s

Mon. Feb. 9 W C V R 1320 Randolph, Vermont

2 KPIN 1260

2 WCIR 1070

9 KOFO 1220

Sun. Feb. 15 WSN 0 1450

Mon. Feb. 16 W H B C 1480

Mon. Feb. 23 W C V R 1320

Watts A.M. EST. Info: Mon. Feb. 2 CBAF 1300 Moncton, New Brunswick 5,000 1:00-NNRC 1,000 2:00-3:00 IRCA

3:00-

1:00-

2:00-

1:00-2:00 N R C

1:00-3:00 N R C

1:00-2:00 N R C

3:30-5:30 IRCA

1,000

1,000

5,000

1,000

1,000

250

NRC

NNRC

NNRC

The 1970 Edition of the World Radio TV Handbook is now available: this latest issue continues the tradition for excellence that long ago made WRTVH the most important single reference book that a DX er can get. The 24th Edition is 360 pages long; the North American MW listing was of course prepared by the NRC. Available from Gilfer Associates, Box 239, Park Ridge, N.J. 07656. Price is \$6.95 postpaid; for the special low rate of \$8.95 you can get both the latest WRTVH and the Summer Supplement to be published later in the year. We've also recently gotten a copy of Richard Wood's excellent new book, SHORTWAVE VOICES OF THE WORLD. This is a very interesting guide to shortwave broadcast listening, written with typical Wood expertise and filled with excellent photographs. While not intended for MW DX'ers per se, we're sure that many of our members will find considerable material of interest in it. This too is available from Gilfer; price is \$3.95 plus 25¢ for handling.

CBAF-1300. Reports go to Mr. Robert Beaulieu, Information Services, Box 950, Moncton, New Brunswick, and NOT to CBAF. No info on programming.

Casa Grande, Arizona

Ottawa, Kansas

Barre, Vermont

Randolph, Vermont

Canton, Chio

23 KFIR 1370 Sweet Home, Oregon

Beckley, West Virginia 10,000

KPIN-1260. Reports go to Mr. George Tunning, Chief Engineer. They'll play MoR music with frequent IDs on this test. Info, Don Erickson, IRCA.

WCIR-1070. Reports go to Mr. Roger L. Fox, Chief Enginner. We don't know how long the TEST will last, so tune in at 3 a.m.! Address is WCIR, 1195 Main Street, Box 1063, Beckley, W. Va. 25801.

FREE FREE FREE FREE

Pat Flanagen writes to inform us that he's recently gotten ahold of a hard-to-find album containing the NATIONAL ANTHEMS of 22 Latin American countries. /This album is on a foreign label (Montilla) and Pat offers to make a taped copy for NRC members... All he asks is that you supply him with blank tape; write him c/o WEND Radio, Box 237, Ebensburg, Pa. 15931. It might be a nice gesture to include return postage, too.

CONGRATULATIONS:

To Mr. and Mrs. RONALD MUSCO of Windsor, Connecticut, who became the parents of a son on January 6th! Ron says he's guaranteed to become a future DXer! We wish all three the very best of everything, always.

AN Situation - ON - 910 - KRRV Sherman, Texas, AN-6 (off MM). 850 - KOA Denver, begins HI AN-6 on MM 2/2 or Tues. 2/3.

As we go to press, NNRC reports DX TESTS from : Mon. Feb. 15 WKRC 550 Cincinnati, Ohio 5,000 2:00-MMRC Mon. Feb. 9 WSNO 1450 Barre, Vermont 1,000 1:00-2:30 NNRC (apparently a change from Sun. 2/15 as listed above)

ANNOUNCING THE NRC LATIN AMERICAN LOG!

We're pleased to announce that HOWARD FOUNTAIN has volunteered to undertake a project that's long been a topic of discussion here at HQ - a complete and comprehensive listing of all MW stations in Latin America, including addresses, slogans, etc. Howard has already begun to compile the NRC Latin American Log by sifting through all available information sources and lists; it'll be a big job but the final publication will fill a badly needed gap in the hobby. The NRC Latin American Log will be published offset by the NRC - perhaps as a special edition of DX NEWS; it's too early to tell yet. Watch for further information on this project in future issues of DX NEWS.

ERHEST R. COOPER - 438 East 21 Street - Brooklyn, New York - 11226

Veries, no kidding!: WCIR-1070 WKAJ-900 WTAI-1560 WKXR-1540. DX: 12/30- Unn CKTS-900 in EE o/u CHML @ 6:38pm, whilst looking unsuccessfully for CKDH, N.S. 1/3-- Unn WHWB-100 s/off 5pm, after another w/MoR who began s/ off @ 4:55 w/Lord's Prayer, probably WIMS, but no ID caught. Then, WCFL took over. Unn WFED-990 on top @ 5:25pm. WHOO atop 5:30-5:44 when ammouncer said there would be a pause "for technical adjustment". Quite a pause, too - they were never heard again! SM 1/4- WTAI-1560 on ET 1-1:16 s/off; reported w/PP as they hadn't answered an October RS SM report @ 6-6:15am. MM 1/5- UnID TT-800 1:52-1:55. Portugueser on 880 @ 3:02-3:03 with Ave Maria & prayer, then on came Foxworth's baby, and pfft - there went the Brazilian. ET/TT/OC-1190 3:11-3:18, no IDs heard. 1/7- I'm home w/a badccold, & at 3:15, tuning around, I happily discovered WKXR-1540 way atop everything on that spot for a half hour & a dand; report: This is one I've been after for many many twilights: 1/8-WIAM-900 atop @ 5:13pm, unn. Sat. 1/10- UnID TTer-1450 1:02-1:15 off, who's this f/c-er? WCCR-1580 heard weakish on r/c-TT, only ID heard was at the end. Mi 1/12- TT u/CKIM-1570 12:16-12:24, no IDs noted. Low TT on 1260, 1:43-1:49. More TT on 1530 2-2:04, and TT on 1520, at same time. Bad MM, nothing new. 1/15- Ny FFC-1340 on top much of the time 6:21-6:45, but still I can't swing an Id out of this oiseau (bird, hi). MM 1/19- WYMB-1410 on r/c-TT 12:52-12:59 off, u/WINC/KOV, both w/talk shows. IT on 1360 but I doubt it was WISV - I expect they showed up one day later when their f/c is sked. TTer on 740 1:38-2 w/ my also, turned out to be unn WKIS. WOR-710 off, & a station ETing and IDing as "Storer Broadcasting Co." @ 2am, whossis? At 3:01 I noted a Portuguese speaker o/the two Reloj Colombians & began to log it when @ 3:04 on popped WKYC to test its AXR - about as welcome as Athlete's Foot in July, hi. CUN 7.

TRANSATLANTIC LISTENING TEST DATA

We're now finishing the preparation of the results of last fall's TALT for computer analysis. Over 700 TA receptions were reported by North American DX'ers for the TALT period; after very careful filtering of the data to remove uncertain and tentative loggings, more than 400 rock-solid receptions will be subjected to analysis. To this will be added several hundred receptions reported by European DX'ers; the final TALT should contain data on more than 500 TA receptions made during the 9-hour TALT period - this is certainly the largest body of MW DX data ever gathered! The TALT was a remarkable success and the results will provide data for scientific analysis for a long time; we plan to make duplicate data decks for use by other individuals and groups. But I still have nightmares about what would have happened if we'd held it a few days later ...

MUSINGS of the Members

Ernest R. Cooper 438 East 21st Brooklyn, N.Y. 11226

JOHN DALLER - 433 East 83 Street - Apt. 3C - New York, New York - 10028 Greetings! I am alive and well at the above address in N.Y.C. ST. LAUE was great; for that matter, so was BOSTON. Lotta fun seeing old and new friends but I missed regular Convention-goers Rugg, Seaver, Hansen & Korchewski. Wayne Heinen - start practicing now for this year's head-on challenge! DXing for me has been slight - consisting of time during EBS Emergency Broadcast System tests of various stations, hi: New calls- WIID-1090 (ex-WTAK) Garden City, Mich. & WDEE-15 0 (ex-WJE.) Detroit. WDEE is fulltime c/w & WIID will have a format change also. (The "Eyes of Detroit?") While home for Christmas, I told Frank Merrill that I heard WDEE on their first day of broadcasting, 12/25, & he said he heard them on the first SECOND of their first day, having been tipped off in advance! Would someone who has seen the picture of me from "ST. LOUIS '69" lend me a copy, please? That stuff doesn't really go on at Conventions, does it? Since last Musing, I have found WMCA to have its good points also. Pay attention: In 11/68 they had a contest to guess exactly how many records they would play during "Much More Music" month. First prize was \$570, and second & third were \$57, for earliest-postmarked correct entries. On 11/2/68 I entered 1,149 postcards at the 5¢ rate. That's over \$57 for postcards! On 12/6 they announced me as winner of the \$570 plus all 80 singles played that month! John Javetski helped by lending his tape recorder: DJ Dave Prince says WCAR has Ken Proper as consultant-in-residency for their switch to rr. Tom Clay, ex-WJBK CKIW KDAY etc. can be reached 9:30-1:30am at WCBS-FM-rr @ 212-765-4321, Ext. 6101. Times Square on New Year's Eve was fun. 73 & Rest in Peace, Ralphie.

JOE KUREIH - 9233 West Stayman Drive - Ellicott City, Maryland - 21043 This month begins my sixth year in the greatest DX organization in the world! I hope everybody enjoyed a happy Yuletide & I especially enjoyed meeting Hank Holbrook just before the holidays. I'll only include DX since Christmas & new stations: 12/29- I heard the WRYT & WK D TESTs w/the latter giving a full account of the DX hobby & the NRC. This MM was the best for TAS I've heard in three years so I spent most of the time going after Europe. Also logged were HJDK-750 and HJJM-660 for Colombians #23 & 24. These were heard at 1:30-2am w/fair signals. 1/6 I had KAAY-1090 u/local WBAL @ 6:10pm. 1/7- WGIG-1440 covered the frequency from 5:30-5:40pm & finally KOAM-860 on 1/8 @ 5:37, w/ ID o/CJBC. IT on 1/10 IDed @ 2am as unn CBL but report sent as the owner is (or was in 1964) Speaker of the Ky. House of Representatives & verified a M.C. report on that stationary rather than the station's. Total heard now is 1,182 & I would like to see 1,200 before the end of this season. 73, & may the New Year

RODDY FREEMAN - 9029 Meadow Heights Road - Randallstown, Maryland - 21133 This is my first Musing - I was introduced to NRC in 12/68 by Rick Marr & Bob Binau. Beginning my daytime DX: 1/9-WIMV-540 Md. w/MoR @ 12: 22pm; MSVA-550 w/MX following "Noon Almanac" @ 12:35; WFIL-560 Pa. w/rr @ 12:39 pm; a regular in this area during daytime hours; WCMS-570 Md. w/c1 mx followed by PSA C 12:45pm; WHP-580 Pa. w/ads & MoR @ 12:47; 590 nil because of heavy WCAO splatter. Local WCAO-600 Md. w/NX @ 1:5p5pm; WIP-610 Pa. w/ID @ 2pm. In Baltimore, WAYE has dropped CBS & joined Ae Net. This leaves theccity w/no CBS affiliste M ABC/E stations, as local c/w outlet WISZ Glen Burnic, Md. is also an Ae. Way Arlington, Va. is joining the Mutual Network, mainly for use during Hair PM-only hours at night. This gives the D.C. area three Mutual stations. Well, that's about it for now - I hope to Muse often in the future. (We also hope you will, Roddy, and welcome to the NRC! -ERC) IS THEY SIZ III FIMIRA HEIGHTS, N.Y., "WEGG" - WONDERFUL EMJOYMENT in HASBROUK

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

Hi all. DX has been somewhat decent here lately, w/the following new ones: 12/14 gave me WEAM-1390 finally w/Drake-style rr @ 1:27em. On 12/18 new WIRO-1380 InLorain was logged on RS (their format is uptempt MoR); WIGT-1000 noted @ 3:46pm on 12/22. 12/24- Two new semi-locals in Pa. were heard: WEZY-1140 @ 11:30am & WACB-1380 @ 1:40pm w/WIRO nulled; CHNO-900 heard @ 2:05am on 12/28. 12/29- The WRYT TEST was easily logged for another new one; also WDEE -1500 for a new call (for WJBK, format is c/w mx). 12/31- UnID station on 1560 in eastern Ky. on for energency flooding CX in that area. Station could also have been in Southern W. Va. or western Va.) Unn WRIC also noted on w/c/w mx & emergency WX info at the same time (2am). XELO-800 w/Record Roost program, w/ CKLW nulled, WINZ-940 w/talk & MOR w/CJGX nulled; first logging of the New Year on 1/1 was KIRL-1460 w/an HT/rr @ 2:45am. 1/6 gave me WKWK-1400 in early afternoon, w/a similar time for the logging of WBRJ-910 on 1/7. No new veries in, though, unfortunately, hi. Regort has gone out to WRYT for their TEST, & a f/up to WKBA-1550. Other loggings of note are these: WSCR-1320 @ 5am on 12/29; WVOJ-1320 @ 1:25am on 12/31; KFYR-550 @ 1:45am on 12/31. It was interesting to be getting NW KFYR & CJGX reception at good levels along w/good reception of Southern WINZ, WVOJ stations at the same time. KIMN-950 @ 2:26am on 1/1, & ET from WBAM-740 w/rr & taking phone dedications; WAPE-690 noted at NOON on 1/2 for a real surprise! In local news, WHIO-640 will be moving their XR from the N to the W side of Akron. This will cause their one null (to protect CFCO) to go over the W side of Cleveland, instead of through the heart of the city, thereby giving them better coverage of Cleveland. Anyone w/CMs to trade, please write.

SCOTT BROCKWAY - 112 North Crescent Drive - Rome, New York - 13440

This is my first Musing so some info about myself follows. I'm a Junior in Rome Free Academy High School & began looking for DX about two years ago. When I go to college next year, I will work for a major in English & a minor in German. Now to the DX situation here. I'm hindered by having to get to bed early on Sun-Thurs. nights, but on vacations & Fri. & Sat. nights I'll usually be up to 3:30 or later. My best DX catches on M.W. (I'm also an SW listener) are: KSL on 1/1 w/a great signal, WFAA on 12/19 also w/a good signal & WCCO on 12/18 w/a fair signal. I've also heard KFI on 1/5, but not long enough for a re-ort. I also have v/qs from an SW time signal in Hawaii (WWVH) & Col. (WWV) & Cal. (KGEI). In the foreign department my best Canadians are CBW in Winnipeg & the SW outlet of CFCN (CFVP) in Calgary. I also have a v/q from XEB Mexico City & am expecting a v/q from R. Rebelde in Cuba. To give you an idea of what I can pick up on ... Hallicrafters S-120A rig w/a 250° outdoor copper antenna, the following are commonly heard in the Winter: CJKI-560 CHNC/WIP-610, WSM-650 CBF-690 WIN-700 CKAC-730 CBI-740 WSB-750 WBBM-780 CKIW-800 WCCO-830 WHAS-840 CKVI-850 CJBC-860 WCBS-830 CHRI-910 CEM-940 CFRB-1010 CHUM-1050 WBT-1110 WWVA-1170 WXYZ-1270 CJOE-1290 WSIR-1350 WIRE-1430 WHSI-1490 WKBW-1520 WPTR-1540 CBE-1550 WTBY-1590, WMRI-1600. There are many more, but they are even more commonly heard. So until next time, 73 & good luck in your DX. (Welcome to the NRC & Musings, Scott - and keep those Musings coming to 438 E. 21: -ERC)

JEFF KADET - Box 732 - Erston Hall - U. of Maryland - College Park, Md. 20742 It's been a long time since I've last appeared in Musings although I've been keeping up w/what's been going on. Unfortunately I don't have as much time for DXing as I'd like these days. We had the SX-100 in the dormfor a week before Christmas vacation, though, & heard the WKOG ET & WCVR TEST. Then from Bethesda during vacation I heard WWSD KXRB WKND TESTS & a KATZ ET. These are from memory as my records are at home. From the form I am using a hot waterpipe in our room as the antenna & it seems to do a good job but w/a bit of line noise. I plan to keep the RX up here permanently next semester. I enjoyed a weekend DX-fest at Hank Holbrook's in Nov. along w/Steve Russell, & also often see the University's answer to Bobby Sherman, Rick Marr. My roomate & I are planning a jaunt to NYC o/semester break & if we get that far I'll look some of you up. 73 & good DX in 1970.

R. J. EMUNDS - Box 946 - Wayne, New Jersey - 07470

Hi gang; once again, it's time to recap December's DX. When last week's program came to a close we found ourselves musing over DX through 12/18, so here's 12/19: WUST-1120 @ :07pm, WKNX-1210 @ 4:11; QHNC-890 u/WIS @ 4:22, WRRZ-880 w/WCBS 100ped @ 4:25, WAVA/WCKB-780 u/WBBM 4:28; KAAY-1090 u/WBAL 4:40; WCPS-760 u/WJR 4:44; Oran-548 @ 5; Norte-719 @ 5:07; BBC-908 for a first (as all these are) 5:29; WCPC--940 5:32, reported; ORTF-944 Toulouse; Madrid-989 @ 5:41: Synchronized Spanish Common Wave on 1394 @ 6:21 (hereafter referred to Sp. SCW:) Finally Saar-1421 @ 6:13, Poland-1304 @ 6:27pm. 12/20- Sp SCW-1475 @ 4:52 12/21- CBK-540 @ 12:10em; WCTO on test 12:45; WINZ-940 1:22. 12/22-CKAJ (ex-CKJL per Mark Katz) heard but calls missed 12:02am s/off: WJWL-900 TEST @ 12:15: WREM-1000 testing whilst looking for KXRB TEST in vain 1:27em. 12/28. after Christmas break: Lyons-602 12:20am, KWKH-1130 u/WNEW's 10hw. AXR, 1:15. Frankfurt-593 @ 11:38pm; Schwerin-728 @ 11:54. 12/29- WNAK-730 ET 12:30am, KPRC -950 C 1:17, then WRYT TEST s/on @ 1:19 w/a TEST I'd loved to have listened to all M, but there were other TESTs, so WKND-1480 @ 2am, TIRS-975 Atenea in San Jose format similar to TIOS-825 @ 2:46; KLRA-1010 u/CFRB & WINX OC, a real surprise 3:30; XEG-1050 @ 3:32; WHOT-1330 (Hi Jerry) w/Big A1 @ 3:44, WMEN-1330 TEST briefly 3:48 to 3:53 WPOW s/on, dernit; WWSD-1090 TEST in weak u/LA het @ 4, HIMS-570 w/an ID way u/WMCA & Cuba (I think) @ 4:09; then WBAA-920 TEST 4:15: then WRSJ-1560 4:45am. 12/30- WUFO-1080 u/WTIC w/latter 100ped 12:06pm. then WOWN-1380 u/WENX @ 12:34, a real rarity that anything gets u/WENX days; then WBZA-1410 @ 12:43. 12/31- AM, not eve, as even I don't DX New Year's Eve: I drink instead (only more than every other night) (ERBA lives!): WRIC-540 on w th flood alert all AM, heard @ 4:09; WDAF-610 in 12:24; Portugal-665 in 12:29 for a newie; unID GSQ-1240 s/off 1, CJCS? Then CBOF-1250 GSQ s/off 1:04, then just R4 Beezeville, WBZY-1140 u/WRVA w/latter looped (and me not looped yet) @ 4:32; WWCO-1240 @ 4:11; WHID-1270 @ 4:22, then WCTL #10-670 4:45-5. That's it for '69, next Muse will cover the bulk of the 1/70 stuff, of which there ain't as much, hi. WCPC v/q in so the first half of the season finds vy verie percentage @ 100.

CESAR OBJIO - Calle B.F.Rojas 46 - Apt. 5 - Santo Domingo, Dominican Republic Hello friends. I am sorry to report that R. Cristal TEST program could not be presented on the assigned date & time, but this will be done later. Main reason was due to technical problems as the station is being prepared to operate 24 hours. What's more, we thought that by12/29 this was to be already in effect. The test program was taped on Saturday afternoon 12/27 w/many Dominican musical selections, also many IDs. Although I mention in the program Radio Cristal Post Office box I wish all reports to be sent to my home address. The new date will be amnounced later. I have been ill again now with this Hong Kong Flu since 12/13 up to now 12/30 when I am not feeling completely well. Dominicans are also ill, I hope this won't last long. Due to this I haven't been able to IX & do something to add stations in Fish FDXC, I hope to continue as soon as possible. My best to all of you in the New Year. (We hope ylu're feeling fine once again, Cesar, and let's know that new date for Cristal-570. -ERC)

RONALD J. MUSCO - 18 Chestnut Drive - Windsor, Connecticut - 06095

News here is of a morning noise maker - 71b. 14oz. boy born

1/6. DX has been limited to MM w/the following additions: 12/29- WKND-1480 TEST in w/excellent TEST. Thanks Ernie! Although five miles away I've never verified them. CKKW-1320 from 3:01-3:28am at S-9 plus 10. Is power really lkw? Report somt wffor WEND/s s/off © 3, KFH & WHOT-1330 doing battle but while taking report on both MPON s/on © 3:54, so no go - insufficient data. WBAA-920 TEST from 4:03-4:18am S-5 u/strong CKCY. Finally for the morning: CJET-630 @ S-8 o/WPRO 4:39-5:02 for a report. 1/5- I tuned to 1330 again © 3:03am & took a good log on WHOT & MR. THEY STATE TO WHAT & Veries: v/qs from WOKO & CJET. WOWN rate card v/q. Friendly v/ls from WNTY & WEAN.

METHER STATE OF THE WINTY & WEAN.

ROGER W. WINSOR - 718 North Fremont Road - Valparaiso, Indiana - 46383

Happy '70 to all. DX stable, not much on SSS, but CX are pretty good most of the time. 12/25- KLWI-560 Tex. in well o/local WIND 9:56-10:12 for a good logging. 1/3- WILY-1210 Ill. for another try at verifying this thing 3:30-4 w/many spots on Rs. Oddity noting YVOZ, R. Tiempo, 1200, @ 5:10 on SSS. but no real Aurora CX noted. 1/5- WPIB-1380 OK 12-12:15 w/f/c; WGHN-1370 12:15-12:30 u/strong WSPD. Is Austria-1475 on @ 12:50 w/GG? Listed 150kw. per FBIS, but bad QRM from WMBD. (Yes -ERC) KDIM-1340 r/c-TT 1-1:10, also KCJB-910 12-12:15 on r/c. C/w mx on 910 turned out to be WGBI Pa. to 2 s/off-SSB for a muchly-desired logging. CFAC-960 Alta. in nicely o/KOOL 2:27-2:45. 1/12- WDEE logged w/PSA programs 12:14-12:35 fade to KSTP, now c/w w/new calls from Detroit. I was really surprised to bag WCOV-1170 Ala. on RS 12:46-12:59 s/off w/KVOO nulled, nice signal at times for only 1kw. TT on 1310 turned out to be KIKS La. on r/c 1-1:15 w/IDs every three minutes. WJAG-780 noted 1:05-3:30, logged u/ WBEM OC 1:19-1:30 & 3:14-3:30 s/off, the latter in the clear w/YVOD QFM at times. WGST/WSB both noted AN for the ice storm. WNXT-1260 TEST in very poorly for 5kw but unn anyway. Wonder who was TTing all morning on 1000? Looped KTCK direction, so maybe off their NSP sked. 1/13- WPUV-1580 r/c-TT 12:15-12:30 strong. WFTR-1450 Va. on r/c 12:45-1 w/ID every minute at 50 seconds, TT on at the minute. I called them & they were very pleased to know they were getting out so well. WREL-1450 Va. also logged 1-1:12 fade w/ID every three minutes as "WREL, Lexington, Va. " & nothing more. Also somebody else on @ 1:15 on 1450 which I logged until 2 w/various tones, OC, etc. He IDed @ 1:15, but I was talking on the phone & missed it. It looped NNE/SSW, but I have no idea who it would be. KRCB-1560 Ia. on for ET w/TT & mx 1-1:092 s/off. Add WKMF-1470 to the World Tomorrow List, heard 2:30-3, then WKMF Impact News. Veries from these: v/c- KCBS v/rate card KFIN. v/PP- WRPM. v/1- KTRG, KLVI, WKND, WAGG, one of the prettiest received. v/q- KWTO. v/f- WHHO WPAC WCRA. Now at 917. 73 & good DX to all. I hope to see several more TESTs before this season ends.

WALT BREVILLE - 9127 Coral Drive - St. Louis, Missouri - 63123

It's high time for me to Muse again. I am writing with pen, sorry Ernie, but my kid brother borrowed the typewriter & he's bigger than me. DX since last Muse: 1/13- WKAR-870 E. Lansing, Mich. very good @ 5pm, no WWL. WXTN-1000 Miss. 6:05-6:14pm, KTER-1570 Terrell, Tex. 6:37pm s/off. MM 1/12- DX Specials WJAG & WNXT both in well, KUDL-1380 Kan. concluding ET @ 2:55em, CKLC-1380, Kingston, Ont. 5:01am s/on. 1/11- WHBC-1480 0. in very good 8:50-9:10am. 1/1- Rich Eddie, Charles Wehking & I had an all-night DX session at Charlie's house to welcome the New Year. I accomplished nothing but some blanks filled out on my second FDXC form. It was a good time had though, thanks again, Charlie. December, as usual, was a bad month here because of long overtime hours put in at the Post Office, resulting in missing of two big happenings: The Dec. 22 DX Marathon, and Tiny Tim's wedding. On 12/29 just two of all the Specials made it here: WBAA-920 & WWSD-1090, and CJRN-1600 Niagara Falls, which surprised me during our DX session on the car radio at the St. Louis Convention. I finally made it to Coral Drive @ 5:36am this morn. 12/12- I found WRIZ-1550 Coral Gables, I&C @ 7am. No veries lately, but I just recently sent a bunch of reports out. Paul Hart's comments about reciprocal reception between N.J. & Tex. I found very interesting. I think he had a location in N.J. where terrain and other quirks of his local area resulted in abnormally strong reception to the S.W. When Dave Carlson lived just seven miles W of me, he regularly received numerous stations from Tex., Cal. & points W & SW. That I very seldom or never have heard to this day yet, even though ave used a 50' longwire & five-tube RX, while I had my 11-tube SX-122 and the advantage of a loop antenna! On the other hand, I have better reception to the S & S.E. than other local DXers. 73.

DAN PHILLIPS - X-2 Seminary Village - Louisville, Kentucky - 40207 Verie received from WCVR for a new saate. Totals now 48/44 & I still need N.H. & Alaska. Only success on 12/22 was logging of WCHB-1440 AN @ G. HARLEY DeLEURERE - Box 233 - Elk Garden, West Virginia - 26717 DX has been next to nothing lately. I spent 17 days in the Hoosier State w/my folks in Hobart at Christmas. It was very very cold: therefore I just decided to stay under the covers at night & let the rest of you all the good DX. While in Indiana, I had the honor to meet members Richard Evans of Glen Park & Roger Winsor of South Haven. Both locations are a hop, skip & a jump from Hobart. These two bous are really DXing well. Both have heard Alaska & Hawaii, & I haven't. I reckon I'm just a penny-ante operator. I must say though that on 1/12 I heard R. Belize-830 for the first time in years. Their signal was great for almost an hour. Since I don't have it confirmed. I sent a report by registered mail. I don't want to miss out on this one. Recent veries include WMCR-1600, ex-WONG, Oneida, N.Y. 13421; WGMF-1500 Watkins Glen, N.Y. 14891; CJRP-1060 Quebec, 1300 Avenue Laurier; WIXZ-1360 Pittsburgh, Pa., 4 Cateway Center, 15222), WSCR-1320, Scranton Pa. 18504; WFIR-960, ex-WDBJ, Roanoke, Va. (Reports to Mr. Willie A. Carr, WA4RDV, 1145 Kerns Avenue S.W., Roanoke Va. 24015); CKVM-710 Ville-Marie, Que.; WHHO-1320, Hornell, N.Y. 14843; & WCIR-1070, ex-1060, Beckley, W.Va. 25801. In closing, WCIR will have a DX TEST Mon. Feb. 2 @ 3am. Reports go to Mr. Roger L. Fox, CE, WCIR, Box 1063.

RICK EVANS - Box 1988 - Gary, Indiana - 46409

Ernie, are you referring to me by any chance w/the comment about "Musings Typewriter?" I do that so you know what it's for. (I really don't know, Rick - I put all reports in a box & discard the envelopes immediately but one or two come in without my name on the envelope, which can foul up the postman, particularly if a sub is on -ERC) 1/9- WSEL-1440 Miss. r/c 2:30-2:45. 1/12- WCMF-1500 N.Y. f/c 12-12:08 heard; WATS-960 r/c groor u/WSBT 60 miles E of here & u/WELL 12:20-12:35; WCOV-1170 Ala. 12:50-1 s/off excellent; KIKS-1310 La. r/c 1:05-1:15; WJAG-780 Neb. on Special weak u/WBBM OC 1:20-1:30; WJET-1400 AN w/ID about 1:45 while chasing UTS (UnID Testing Station); WNXT-1260 0. 2:01-2:15 w/very involved IDs, poor u/WWDC; KFRE-940 Cal. 2:30 w/CBS Capital Cloakroom; KOYN-910 Mont. r/c w/Morse Code IDs 2:45-3. 1/13- WPUV-1580 Va. r/c 12:15-12:30 thanks to Roger who called me at work & I nailed them on a portable; WAAC-1300 Ind. 3-3:15 r/c-TT per IRCA list. 1/14- WDEN-1500 Ga. ET AN heard 3:30-4. 1/15-WRKH-580 Tenn. r/c 4:15-4:30 w/IDs every two minutes. v/1- KOEL WGEA KXEO KMJ KCJB WEKG WKND. v/q- CBJ WCBS WSWV KCKW WANV. v/PP- KFH. v/? KFIN. Totals now 934/347, half again what it was when I started on 10/1/69. All times above, AM.

BILL RACZKO - Box 6 - Toledo, Ohio - 43601

Note new mailing address. 3015 East Lincolnshire can still be used however. New DX: 12/29- WRYT-950 TEST 1:59am, CFOX-1470 2:10am, WKND-1480 TEST 2:12, RTE-683 2:23am, WDEE-1500 (ex-WJBK) 2:59am, WALE-1400 testing w/continuous IDs @ 3:32am, ZBVI-780 (Country #52) s/on-GSQ 5am. What is power? (10kw. I believe -FRC) 1/12- WNXT-1260 FEST @ 2am, WLIL-730 5:41pm. Veries: ZBVI-780 and Rome-845 (Countries 43 & 44 verified). I'm still debating whether to write for any more veries or not. It is mind of nice to show veries from 44 countries instead of jist a log, but why spend, say, an hour, trying to get details from a TA just so you can get a verie? During that hour, on a good night, many other new T/s could possibly be heard. Anyone from this area who wants to go on a weeklong Midwest trip (Iowa, S.D., N.D., Beb., etc.) in early June, please write. Peace. CM collectors, please write! EVERYOUR IS INVITED TO THE 1970 NRC CONVENTION IN HASBROUCK HEIGHTS SEPT. 4-7:

Geomagnetic Measurements During the Past 4 1/2 Years

9

by K. G. Scrimgeour

Two years ago, I wrote an article on the relation I had observed between geomagnetic index and medium wave DX reception on east-west paths (IRCA-DXWW, Jan. 13, 1968). This, and extensive theoretical work by Gordon Nelson, has shown that low geomagnetic activity is a necessary but not sufficient requirement for long distance reception such as TA's from the west coast or Asia from

Reception during the fall of 1969 was much improved over the previous year, with many excellent catches being reported. This suggests that the reception of good east-west DX should gradually increase now that the maximum of sunspot activity has been passed for this cycle (i.e., DX openings should be more frequent, and of better quality). The graphs in DX News of daily A values with reception quality marked tend to bear out the correlation between extended periods of low A and decent to good TA DX. (There hasn't been much from Asia in the east vet in this new sunspot cycle, but KORL has now been rated a pest in Cleveland, hi). Things seem to be getting better.

With 1969's A records now completed, I've gone through the geomagnetic data of the past 4 $1/2^2$ years to see if there has been a trend in activity that parallels the DX conditions observed during the peak of sunspot activity. I've summarized a few pieces of data in a Table below, based on the suppositions I previously made, that days with A values of 15 or more are disturbed as far as BCB DX goes, and that days of A values of 3 or less are low in geomagnetic activity and hence conducive to good BCB DX.

1/2 Year	Average length of undisturbed periods	Number of low days	Number of high days	(Low - High)	Longest period continuously below A = 15
1965b	16.6 days	61	14	47	49 days
1966a	17.0	57	14	43	58
1966b	7.3	33	37	-4	31
1967s	8.6	47	33	14	29
1967b	7.3	29	31	-2	18
1968s	5.0	18	46	~28	30
1968b	8.7	32	35	-3	42
1969a	9.0	24	30	-6	42
19695	12.8	46	18	28	26

a = first 6 months; b = second 6 months. Low = 3 or less; high = 15 or above

To me, the most indicative figures are those in column 1, the number of days (on the average) that continuously had A values of 14 or less. (Please notice that even in the poorest reception years there were individual long periods of continuous low activity, such as the spell of 30 days during the first 6 months of 1968). The data of column 1 seem to me to be a good measure of useful geomagnetic data - they seem to coincide with better chances of good DX during the end of low sunspot activity and during the past fall. If indeed the average length of undisturbed periods is of value as a measure of DX probability, then it would appear that we are well on the way toward a recovery phase in the sunspot cycle and can look forward to more frequent decent reception conditions. The number of days of high activity increased during the peak of sunspot activity. and similarly the number of low days decreased (the rapid deterioration during late 1966 is most easily seen in column 4, as is the recovery in 1969). As I said 2 years ago. I feel that the examination of geomagnetic index as a physical measure that can be related to BCB DX potential seems worthwhile, and worthy of much more study.

Russ Edmunds recently gave some details on the propagation forecasts given on WWV and WWVH every 5 minutes (NRC DX News, Dec. 6, 1969). Randy Seaver and I kept track of these forecasts for several years during the low sunspot activity, and unfortunately did not find them to be at all useful for BCB DX. These forecasts are intended for SW transmission and reception, and seldom reflected the conditions of the broadcast band when we listened. For this reason, it would be to our advantage (and probably to the advantage of users of others bands) to have current values of geomagnetic activity itself broadcast over WWV. This service would not just indicate to us the occurrence of 'auroral' conditions, but also allow more scientific measurements, and perhaps successful studies on many phenomena of propagation to be examined by DXers with their relatively unsophisticated (GPN excepted!) equipment. Perhaps an explanation of the mid-winter anomaly, variation in its effect during the sunspot cycle, more details on seasonal openings in general, and predictions of excellent reception periods a few weeks or days ahead of time could eventually be achieved.

INTERNATIONAL DX Digest



Propagation & Features: Gordon Nelson, 19 Irma Ave. Watertown, Mass. 02172

* EGYPT. The widely heard Arabic station on 1106 is a new Cairo superpower unit; * perhaps the 5 megawatt unit that's been mentioned as being in the works? This * one is carrying Cairo Arab service; see previous editions of IDXD for detailed * schedules. Sorry about that, fellow Ceuta-hunters... (Pd)

BAHRAIN ISLAND. A new unlisted station is the Awali Broadcasting Service, believed to be operated by the Bahrain Petroleum Company on 1230; no further information available at the moment. (SCDX)

ABU DHABI. The new station on 809 operated by the Abu Dhabi government is now signing on at 2130 with readings from the Koran; programming is exclusively in Arabic. A possible ECNA catch on a good Mideast night. (Ed)

* SPAIN. There are two new stations in operation that're likely to be heard in * North America: RNE, testing on 998 from Bilbao, and Radio Peninsular en Campo * de Gibraltar now on 728. Latter is in Spain, a few miles from The Rock.

(Ericson. Canary I.)

CANARY ISLANDS. Bengt Ericson, currently vacationing in the Canaries, reports that L.V. Valle de la Orotava on 1480 does not exist; EAK83, R. Popular de Guimar is now operating on 1502; and EAK104, R. Popular de Tenerife on 1133 is currently signing off at 1830 EST.

ENGLAND? A station calling itself "Radio 2-0-5 was heard in Scandinavia on 1/7 on 1466; address is 1, Harley Street, London, W. 1; verie signer is Geoffrey Bass. (ARC) Now who'll be the first to get a TA bootlegger? (Ed)

TURKEY. According to the UPI, Radio Free Europe is planning to move its transmitters from West Germany to Turkey; can anyone confirm this report? (ARC)

AUSTRALIA. Three new National stations will be established at Julia Creek, Hughenden and Mossman in Queensland and Leigh Creek in South Australia. The station at Julia Creek will be high powered and will provide a primary service coverage for Concurry, Julia Creek, Mary Kathleen, and Richmond. (ARDXC)

The "Malaysian Liberation Army", a clandestine station located in China (believe they said Yunnan) began about a month ago... The Kuala Lumpur government has decreed that anyone disseminating the broadcasts (tapes, transcripts, or playing in a public place) is now subject to arrest and imprisonment for 3 years without a warrent, or even loss of citizenship. No indication if SW or MW, or just what frequencies, but I am inquiring. (Radio Australia, monitored and paraphrased by Glenn Hauser). [Enquire no further - they first came on the air on November 25th on 9590 and 7305 in Chinese (Malaiya ko-ming chi-sheng kuang-potien-tai) and Malay (Suara revolusi Malaya); schedule announced as 1700-1815 and 0600-0715. There doesn't seem to be a MW outlet but we can always hope, for your sake... Ed]

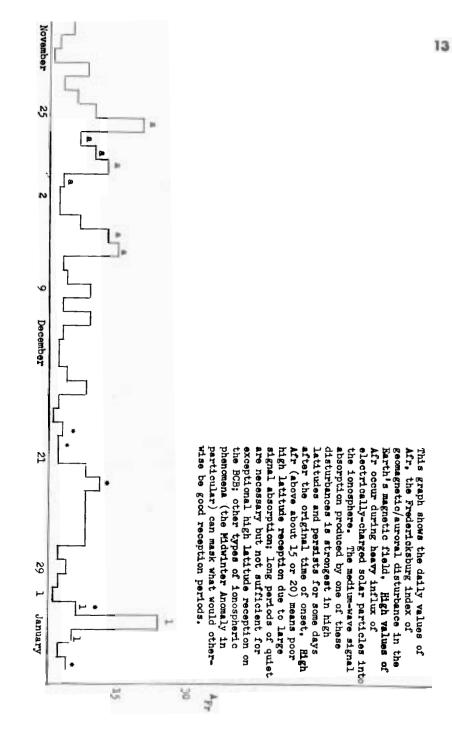
According to an item in Newsweek, there's an active anti-American campaign going on in Libya - to the point of all signs in English being torn down. Those awaiting QSL's for Beyda-1124 better not hold their breaths... (Ed)

REPORT from the PACIFIC

Conditions in Hawaii December 14 - Jamary S.

- General: This period may be subdivided into a pre-Christman segment, which produces average to good reception, mainly from North America; a period between Christman and New Year's when I was on vacation and could not lister, and a New Year's period with extremely good conditions producing interesting openings to many areas.
- 12/14-21; Average or accesshat above average for the season. Some good signals from East Coast, Florida and Mid-West. Fair to average signals from Alaska. Very little from South Pacific; this is typical of winter or here.
- 12/22: Well above average; a good opening into the South Pacific, Aussies noted on high frequencies, Fiji-1470(but not 890) and other h.f. openings. Alsaks excellent. Manerous new North American loggings. Thailand, India, other gore distant Asians noted. 12/2) was similar with slight falling off of cx.
- 12/24-30: I was unable to listen, being on vacation.
- 12/51: Excellent to all areas, Alpaka and all parts of Asia including the Middle East being particularly outtanding, e.g. Damass-890, Tehran-895, Zahedan-777, new Beghied-908, etc. etc.
- 1970. 1/1: Continued very good cx. to many areas.
- 1/2: East Coast semi-local, WHZ, KIMA, WHSC, etc. H.f. opening to Australia.
- 1/3: An outstanding night! My first logging of AFRICA to complete reception of all inhabited continents. Commany-1405 in quite well although unreportable. U.S. excellent, my first No. graveyarder, and new loggings from Colombia, etc.
- 1/4: Continued excellent; Alaska dominant over B.C.(KPRB over CJVI), while B.C. in turn dominant over Calif.(CENW over KPWB). An obvious swing taking place, away from the East Coast and towards the south; good openings into Colombia, Fiji, Philippines; Aruba-925 new. Acis in early. Cubs-670 dominant, and E.C. not outstanding, though WCBS still good.
- 1/S: Alanka very good(regulars plus EJBP, EICY); E.C. still holding up, CFRB very good. H.f. opening to Australia.
- 1/6: Hight back to the East Coast, KYW almost level CPCH, CKIW very good, WGY level with EGO! Decided weakness of local stations; Honolalu locals fading markedly, other Hawaiians quite weak. 3 new Texans, all 1 kW, noted on f/c. A nice opening into Ecuador/Peru shortly after local midnight; EFRB totally dominant over CJVI on 900.
- 1/8: A very interesting, intriguing might, with many surprising openings to a great variety of areas. KOWB-1290 noted over EMEM/RESL; stations from Wash., Ore. and B.C. dominant over Calif. on all appropriate channels, e.g., KOWK over EXEM-1450, KEMA on 1470, EAGO on 1150(no sign of KAYO-the Seattle stations were missing this evening, e.g., 1250 showed only WHEM/KTMS, but no KTW). New also CHWK-1270, and best of all, much-wanted CEJ-1580 loopable from EMMY which, it should be remembered, is probably the 2nd. most commistent, loudest U.S. mainland signal here after KFEK. A fine opening into Alaska: KFEE dominant, KICY good, etc. Asia in early, but largely confined to Far East, otherwise only Delhi noted. Good opening to Colombia, and sporadic catches to Scuth Pacific, e.g. Tonga-1030 but no Piji. Tahiti very good. One of the best nights in my manary; only Europe and Africa were missing, but there were many others to make up for their absence.

Richard E. Wood





IDXD Monitor Reports

Members' Loggings: Bob Foxworth, GPO Box 2111 New York, N.Y. (000)

Telephone Tip No: 212-582-0844. All Times are Eastern Standard.

Micaragua. Radio Corporacion noted weakly at 0604 s/on 12/23. (Kenney, Santa Monica, Calif.) 555 Nicaragua. YNS, Chinandega. Good signal but lots of domestic slop. S/off around 2352 both 1/2 and 1/3. Costa Rica. TIJC, Cadena Musical w/ID 2326 12/13 and easily separable from WhiCA. (Edmunds, NJ alias RjE) 110 Trinidad. Redio Guardian hrd w/religious mx pgm at 0440 1/5 followed by East Indian mx pgm at 0445. Signal was good but local WIOD put their carrier on and off around 0445 and then had s/on at 0456. I enjoyed the East Indian mx pgm. Thanks to Richard Clark and Richard Wood for tips. (Brubsker, Fla.) Guatemala. Had hrd unID here 12/3 to apparent s/off 0102 and, tnx to IDXD, got ID as TGW. KFI QRM was very bad but the signal was noticeably weaker than YND that evening. Has not been noted since, presumed back on 640. (Freeman, Cal) Cuba. Very loud 0317 1/5 and much better than // on 670. (RjE) Cuba. Hmd u/XERPM 0209 1/12, call unk. (RjE) (the "RFS list" says CMHG Santa Clara; incidentally there are two "seventh editions" of this list - June 68 and again, April 69 so use caution if referring to it by edition -Ed.) Alaska. Weak stn 0415-0500 1/5. To 0430 with English pop mx then talk show. Good DF for Fairbanks. Killed by YVNA at s/on 0501. (This is the Santa Monica version of "KFAR rolling in" that everybody else reports;) (Kenney, Crl.) (Oh, yeah?) New York. Regarding the WNBC NSP metter that has been of interest to DXers, a reliable source in a position to know the situation has informed your Editor, due to the recent change in personnel at the station, "the decision (to go NSP) was put aside for further study" and Mgmt allegedly does not think the extra expense of NSP would justify its being invoked; this means it is not imminent, apparently. However, this is not definite. If they do go NSP, kindly do not write me. Tnx .- Ed. 675 Nicaragua. YND signed off at 0000 12/3 using this call, pronounced slowly. When carrier cut, het ceased and another LA with quiet mx was then audible. No ID hrd and deep fades. Presumed the TI. What is their call? (Freeman, Cal.)(TIJC) New Zealand. Two male voices, talking about sports, with mention of Dunedin and Wellington 0426 and 0428 1/12 when they were in well enough to overcome QRM. Loop confirmed 4YZ, Invercargill. (Jay Murley, Newport Beach, Calif.) Surinam. Carrier on 0330 and good DF for surinam; no audio noted until 0402 when faded up with talk in unknown lang, it was not Spanish. This on 1/3. New s/on time? (Kenney, Cal.) South Korea. RLKG, Taegu. 1/8 0340 ancient violin solos performed by Korean children; excruciating listening. (Wood) Sénégal. Guess I'm the last ÉCer to log this one, but with WJR on reciprocal bearing, it takes a total WABC SP (have they ever been partially silent, hi-Ed) and a bad night for WJR so was hrd 1/12 0129 w/Fmench, bell-type mx with horns, etc. (RjE) (yes...cast album from "Hair" is big in Africa, hi)

Spain. New, thanks to WABC SP, 0237 1/12 but not strong. (RjE unID. SS, bearing far to North of usual LA stns, after CKOK s/off 0308 1/5. I'm fairly sure this is not PJB which seemed to come on around 0315. Most probable location would be NE Caribbean or possibly a domestic in Florida or Deep South. (Kenney, Calif.) (All domestics, except KINY are daytimers and don't think they would be on the air then. Incidentally, (and to answer your recent question, John Hoogerheide,) SRDS carries a listing of Stations Regularly Scheduling Foreign Language Prgms. This of no help in IDing, tho. The list appears on pp. 20-21 of the December 1, 1969 issue of Standard Rate and Data Service' Spot Radio Rates. -Ed.) Guatemala. TGTO fair 2320 1/5 with Eaglish rock mx and Radio Internacional con más música" IDs. Het 825. (Kenney, Cal) GILBERT and ELLICE ISLANDS. On a telephone tip from Larry Godwin, "I know what I'm hearing but I don't believe it" found Tarawa in lingo 0300-0405 1/12, some English at 0329. mostly talk, some hymns and Polynesian mx. Good DF for Central Pacific and Larry got GMT + 12 TC in EE before he called Good sig much of the time, nearly as loud as KIKI on peaks. Suspect power boost, 10 kW or more. (Kenney, Cal. via aircard +First firm ID here was "sikungaleo a Tarawa" at 0345 1/12, having missed one at 0330 due to local line noise. A slightly different, also ad-libbed ID at 0400 as talk was now interspersed with Polynesian chants and an occasional Tahitian and Samoan cut. The four-gong IS as described in WRTVH (one, pause, three more) hrd at 0415 after full Ellice ID and then English "this is the voice of Tarawa" with language switch to: English. Eng lang lesson "please listen to what I speak" followed, male anner, definite British clipped accent (almost the proverbial "colonial office" in the movies) and an assist from woman. Armchair quality, s-5 to 6 throughout, no fading or flutter. Used old "budget receiver" so whole West should be able to hear this. This to Don Kenney for relaying tip. Looped correctly. (Jay Murley, Calif.) +Gilbert and Ellice Is; hrd 1/13 0255-0305 and on 1/14 from 0247-0308; both days continued in later but was not there earlier, at 0100. Lang was English at 0248 on the 14th with apparent news; heavy thunderstorm and KOA splash made it rough. Deep fading but nice peaks. Lang after 0250 and all other times was not Eng. Must be the new LO kW stn; not the slightest trace of a carrier ever noted before. Below average Pacific cx at this time; due to flu didn't stick with it this time. (Freeman, Cal who spotted it independently) +Gilbert & Ellice Is. Br. Serv., VSZ-1, Tarawa, on 1/9 at 0125 remarkable, up to s-9 at best with local mx, BBC-produced English lesson, full ID in English, western pops etc. In very nicely all evening on a fine night to this part of the world. Country No. 75. Hrd every night since and looks like this one will be a regular here. One report of 2 kW and one of 10, may well be the latter. (Wood, Hawaii, who appears to be the first to note them.) This island is remembered as the site of one of the worst battles of World War II; it seems to be obscure otherwise. It's approximate location is 2º North, 173º East. This of course will be one of the major DX tips of 1970; should be widely hrd. It is interesting to note that they obviously have a new xmtr yet are on the same freq as before when only 50 watts.

HIS unID TA. On 1/5 with Athlone-566 in s-6 and German, Belgium and Holland in well, had this unID on 818 at 2320. I am satisfied it was not Cairo and investigation shows it was not Andorra. Loop bearing was 70-75° and language seemed to be non-European; could have been a Slavic lang. I have a IS on tape and it is definitely not Poland, which would be closer to 40° than 75° anyway. Signal was s-6 at one point but faded out completely by 2340. After the IS there was a female anner; just not possible to make out her identification. WRH lists nothing of consequence except Italy and it was nit Italy either. Any ideas? (Bob Hoffman, NJ) (Bearing you indicate includes Azores, Morocco, Algeria and Sudan. IF there was just the one carrier, no double audio, no SAH here then we can assume the bearing is true. If there was a 2nd carrier, the bearing would be "pulled" toward it somewhat and your null would lie between the 2 signals, angularly speaking. The 1 kW Moroccan here turns up regularly in the European monitor reports, so it is active here. Usually is reported somewhere between 30 and 50 Hz on the high side. Likely you had them; absence of a het would indicate there were no other TAs active on 818 at that hour. Does that fit?-Ed. placed on previous page so as to include all on one sheet B45 unID. Carrier DF 3400 deep fades, some Asiatics in but was not an outstanding TP morning. If not a spur from a domestic then would seem to be in Central Asia, Irkutsk area. Noted 1/9 at 0750, nothing listed. (Kewney, Cal.) (Wood, Hauser....) Peru. OAX4A Lima best ever heard with news and clear IDs 2330-2335 1/5 despite XEMO, "Radio Nacional del Peru" (Kenney) BBO Peru. Radio Union, Lima first hrd 11/30 0045 while on the freeway headed for the Thanksgiving gettogether at Don Kaskey ERBA, Inc. with s/off anct at 0055, anthem ended at 0058 and they had been atop TGJ who signed off 3 minutes later. Since then I have hrd them from home, occasionally atop TGJ. (Clarence Freeman, Auburn Calif.) 830 Panama. Stn in Colon hrd here 12/8 with "Radio Fabulosa" ID at 0150, gospel prgm at 0200 in English giving address and phone no. in Colon. I assume this is HON-33. I have not seen this slogen listed for them, nor do I know power. (Freeman. Cal) Montserrat. Plymouth hrd 0505-0521 on 1/5 with religious mx pgm, voice modulation poor, otherwise fair. (Brubaker, Miami) El Salvador. Radiopolis with excellent sigs, ID voice-over music à la TIOS 12/12 0003 (RjE) (finally got to use the a.hi) France. ORTF Toulouse / other outlets 1738 12/19,s9 (RjE) unID. Looped 190° SS, must be CA hrd 2242 12/11 but is it

music à la TIOS 12/12 0003 (RjE) (finally got to use the à,hi) France. ORTF Toulouse // other outlets 1738 12/19,s9 (RjE) unID. Looped 190° SS, must be CA hrd 2242 12/11 but is it Honduras or Nicaragua? (RjE) (or is it Ifesa, Ecuador-946 -Ed) unID. SS, bearing 180° maybe Peru? 0013 1/12 (RjE) Spain. Madrid here and surprisingly easy to separate from mess on 990 the a s-7 signal helped, 1741 12/18 (RjEdmunds) Colombia. Radio Colosal is the unID I've been hearing here, runs AN and is Todelar affiliate. Previously I thought their ID was Radio Curaçao; hrd consistently w/good signals (Brubaker) unID. Latin language, few snatches of audio, could not loop

unID. Latin language, few snatches of audio, could not loop but could have been Portugal as it was date and time of best TA reception ever. 1/6 and 7. (Murley, Calif) Carrier noted here Dec. 17, 23, 29 and 1/6 sometimes strong enough to cause audible het with 1035,DF is usually more toward Tallinn than lisbon. Also weak carrier 1043 0159 1/7, European. (Kenney,Ca) unID. Carrier here very strong at times, couldn't make out

lang, looped 165° 0020 1/12, Venez. or Caribbean? (RjE)

1060 Mexico. XEDP Mexico City very weak u/CJRP 0240 1/12 (RjE)
1070 Venezuela. Radio Cumbia hrd 1/5 with fair-good signals on
crowded freq, mx & nx pgm hrd, typical of many ColombiaVenezuela pgmg in mornings. Hrd 0410-0416 with mx, chimes,
IDs as "Radio Cumbia informa" then news. (Brubaker, Fla)

1100 Colombia. HJAT, Radio Reloj good at 0600 1/5 with "Radio Reloj emisora CARACOL en Barranquilla." (Don Kenney) (two S's, as emissora, is Portuguese, hi -finicky Ed.)

1119 Cuba, ChDL here but still cutting up KMOX tremendously with het 2255 12/11. (RjE)

1146 Theiland. Thai TV Radio, Bangkok 1/11 Thei vocals 0620 (Wood)

1160.5 Cuba. Propaganda & stuff 0157 1/12. (RjE)

1190 So. Korea. HLKX Inchon 1/11 EE sermon 0600 very good. (Wood) 1200 Puerto Rico. AFCN is probably the unID stn w/rock mx hrd MM

1/5. Continuous US mx hrd 0305-0335 w/ancts noted between, however the modulation of voice was too shallow to understand. Signal peaked during a song at 032L and was quite loud; (Bill Brubaker, Miami Beach, Fla)

00 Venezuela. YVOZ noted 0532 with Radio Tiempo ID, TC between

songs. (Kenney, Santa Monica, Calif)

cleanest TA to date. (Murley, Calif.)

++1205 Sierra Leone. Freetown weak 1/8 with tuning signal 0100-0115 s/on. Change in s/on time, or just an accident? Also very weak talk 0145 12/23 and some garbled audio from ORTF France 0000-0021 12/18 and 0047-0248 1/7, the latter two w/good DF for France. Deep fades at 2 to 4 minute intervals and a rapid cyclic fade every second or so similar to the auroral flutter observed on SW signals passing through the auroral zone. (Kenney, Cal.)

1212 Colombia. HJBE Radio Internacional hrd 0103 12/17 quite

separable from WCAU with indigenous mx. (RjE)

1214 England. BBC week carrier 0145 12/23 loud enough to be readable albeit with great difficulty 0047 1/7 with male ancr in English and into mx. Best TA carrier on the band that night. Noted from time to time until 0245 with fades of 20-30db every 2 or 3 minutes. (Kenney, Calif.) Thanks to tip from Don Kenney, TA, 1D so strong from BBC here that earphones unneeded 0100 ID 1/7. Slight flutter chopped many words; varying periods of fading for the NC-125's audibility levels. Mx was clearly identifiable and loud, no WCAU problems, my

1215 unID. LA with usual SS pgmg noted here from time to time DFing Ecuador/southern Colombia. Noted as late as 2345 on 12/18 never very strong and never noted past 0200 (Kenney)

1295 St. Maarten. PJD2 had an exceptionally clear signal 1/5 with local dedication pgm, sounded like a local stn 0419. (Brubaker, Fla.)

1360 Ryukyu Is. KSBU Okinawa, Far East B/C Co. 1/11 0600 religious in Shanghainese; familiar US hymns. Quite good, some QRM from NHK. (Wood, Hawaii)

1367 Portugal. Porto IDed here as one bugging me, mostly talking

1832 12/19. (RjE)

++ 1372 North Korea. New Freq 1/11 0500 time signal, news in Korean and // many others. (Wood, Hawaii) (as a word of explanation to some newer DXers, the symbol: // means that two stations on different freqs are in parallel; i.e. carrying the same pgms. It doesn't mean 2 stns have equal strengths. I thought there may be some confusion, so am mentioning it here -Ed.)

420 Western Samoa. 2AP, Apia 1/11 0500 Samoan chanting, off at 0502, must be Saturday night sign-off time; not enough to

to report between KCCN s/off 0500 and 2AP's at 0502.
Country No. 76. (Wood, Hawaii)
Germany. Saar finally logged 1817 12/19 weak under domestic slop. Has been most wanted TA since an image of their SW outlet appeared here (this freq) back in Glen Rock last spring. Actually rendable for a time, too. (RjE) (Kenney)
Asiatic USFSR. Foreign Service IS quite good 0830 1/6.

spring. Actually readable for a time, too. (RjE) (Kenney) Asiatic RSFSR. Foreign Service IS quite good 0830 1/6.7 Puerto Rico. WMDD Fajardo in under WADR f/c, other domestic on channel, quite solid for a while 0027 12/17. (RjE) Colombia. The Barranquilla sta hard here 1/E with good sigs many spots and a little mx. Completely in the clear and it sounded more like 10 kW than 1 kW. Hrd from 0424 to 0440. (Brubaker, Fla.)

Spain. Sync commonwave in well u/WTOP splash with no sign of Poland 1903 12:18, light mx. (Edmunds, NJ = RjE)

Anguilla. Just a carrier here, on DX. (Preeman, Cal.) +Although I didn't expect to hear them again after their DX program 12/22 I've had them twice since. First noted again on 1/5 from 0535-J545 with Hawaiian guitar mx and ID, fair signal. Had again on 1/8 with what was apparently a s/off anct at 2100 with ID by YL anner followed by Brahm's Lullaby and signal not had after this song. (Brubaker, Fla)

+Weak carrier noted 12/22 0425. Good DF for Anguilla. Was too weak for audio, even if I didn't have a 10 kW local on 1500. (Kenney, Cal.)

China? Some audio here 0830-0930 on 1/6 and 7. Deep fades and a broad, poorly defined null around 330° and there seems to be a barely perceptible change in BFO pitch while tuning (rotating) through the null, adding to the impression that there may be two signals coming thru here. Incidentally, 330° passes through Erstern Sinkiang along the Inner Mongolian border. Only one of the 12 bearings taken was far enough West to be consistent with a transmitter location of Urumchi in extreme Western Sinkiang. If there is a Russian mixed in here (as seems likely) and the superpower Chinese is in Urumchi, the Russian(s) must be well to the East of Urumchi. (kenney) (I would think the xmtr would not necessarily have to be in downtown Urumchi. It is more likely near to the electricity source as I'd imagine this thing uses more juice than the rest of the country combined, hi-Ed) 1550 Everywhere. On MM's 12/22, 12/29 and 1/5 from 0300 until CBE s/on at 0500 were a mixture of Latins from both SoAmer and Caribbean. 40D and the Russian, all fading in and out. The Russkiv was noted with tone test at 0420 12/22 and so

s/on for this one may be 0430. (Kenney, Cal) (here in the

Verifications: Preeman has KHAR-590, Jerry Starr has one from ORTF Pointe-à-Pitre, Guadeloupe-640 and we have a few more on hand. Also, a couple of letters at hand; sentiment seems to be with continuing to count stations by studio location/location of license, rather than xmtr location. We, of course, will continue to be guided accordingly inasmuch as our reporting of DX information is concerned. Individuals can still use their own criteria for recordskeeping, as DXing is still an individualistic hobby. We will excerpt some of them next week. Also, veries then.

East, we hear "everywhere" on all freqs, hi -Ed.)

Report from Thailand

Dec 30: ... Am getting a bit discouraged with NHC delivery... Dec 13 issue still the last one here, altho have received 2 IRCA's since. Perhaps things will improve after Christmas backlog is cleared up. This week, I'd say TA cx were definitely down, there were a few signs of the usual ones in the 1500 range but a higher than usual noise level made any copy impossible. I am taking imminent steps to acquire an off-base shack ... (January 6, 1970) ... DX conditions during the past three days (in GMT): Jan 3 surprised me, as I got off work garound 2315 and discovered highband Germans booming in better than ever. The next morning, 1/4 I got my first Aussie, and by sunrise the Europeans were good. And on 1/5, my allnight session, Europe and the Mid-East were very poor until a similar, but much poorer, European opening around sunrise. Monetheless. I did make a number of interesting loggings of closer stations. I may well be missing out on some good openings to the SE and NE during the evenings but with all the QRM, QRM and TVI, I seldom try much before local 2300....the 12/20 issue finally arrived. Surprised but glad to see that NRC will join me on Radio Nederland.... Good guess on CCI (I had surmised Chi Com Interference-Ed.) but it's Co-Channel Interference, a handy term used until now almost exclusively by TV DXers. It's in the AMARC abbreviation list, which I recommend highly. And when you read the credits, you'll know how it got there, hi. (To which I can only blush as to not having had seen the list-Ed.) There's a USIS office in Korat, so I'll start there to track down exact QTH of 843 and 1580 matrs. If no soap, may wangle phone line to Bangkok, or go...(Jan. 13):... Having located what seemed as good as any place in the city for DX, I moved my receiver there for a few days...and discovered a horrendous noise level that must be heard to be believed. (And it isn't even bouncing off the Charles River, hi-Ed.) Altho in the shalow of locals, I had hoped the noise problem would be less than in the barracks. To boot, somebody stole half w copper longwire the first day! how, back in the barracks, I'm thankful for small favors. 1/13 saw some marginal European reception, but certainly not up to par. Nothing more from below the equator and am beginning to wonder if southern Africa exists. Incidentally we (and here, Glenn means the "editorial" we, hi-Ed.) may all hope and pray that VHF DX, which I ambeginning to catch, will reduce the size of future MW reports. (It'll only happen when you have everything already logged, hi-Ed.) Specifically, have hrd Kota Kinabalu 97.5, some 1150 miles, by Es (sporadic-F). No luck in getting off the midnight shift, either....

Receptions (all from Korat, Thailand) (all time EST)

- 539 Hungary? Anything else unlikely for this low-level modulated carrier suffering AFVN-540 splash, bit of mx 1655 1/12 and still there at 1714.
- 550 unID? Had supposed to be possible NA; this time hrd some non-EE ancts, altho mx was US style, this along with poor TA CX would seem to rule out CFNB. Also had something on 1270 for awhile, no clue as to whether Korea or not. Will keep after.
- 560 China. Peking or Urumchi (oh, for a loop!) Russian talk abt Mao over AFVN 1445 1/4 but at 1447 a carrier with tones overrode it.
- 566 Syria. Homs, no doubt, noted agn in Arabic 1513 1/5.
- 575 unID. Good carrier, 2.0 Hz SAH w/slight audio 1455 1/12, EBU list no help. Around this time there were TA carriers on almost every TA channel below 1304.

- Philippines. I assume (hope) none of the port stns in other countries here would be carrying Back to the Bible; suppose this to be listed DZBB, Malabon, Rizal, over/under China w/ Hz SAH at 1717 1/12. Incidentally, 580 is one of the few even channels "clear" here around sunrise (checked 1/12 at 1825-1830), any hints on which NE USA or Canada stns might reach here under optimum TP cx? Other clears here are 670, 750, 1120 and 1150 only.
- 585 China. Changchon (listed), the unmistakable Chicom tune, at 1508 1/5.
- 588 Saudi Arabia. Riyadh seemed, roughly, a little closer to this freq than listed 587.5088, but I wouldn't swear to it. Arabic talk hrd at 1501 12/29 for Cou #32, 3633 miles.
- 510 So. Vietnam. Saigon, strong, soft spoken girl as EE DJ w/US standards 1730 1/5, but she said goodbye and Vietnamese foll'd at 1742.
- No. Korea. Haeju, 2nd pgm, girl in Korean at 1520 1/5, choral 1523. Many NK's hrd before, first one logged. Cou #39.
- 630 West Pakistan. APL1, Lahore I, ME mx 1355 1/5, 1359 ID (Urdu perhaps), tone, maybe feedback; anthem and off. Country #38, 2093 miles.
- 540 So. Korea. HLKC, Tong Yang, Seoul, Korean version of western tune 1522 1/5, Peking-645 splash on it. 2184 miles.
- 655 No. Korea. This one was hid better in the states, always have CCI (co-channel interf.) here. Logged for the record at 1523 1/5 with Korean talk not # 625.
- 670 India.(?) Calcutta/Nagpur, MidEast vocal mx at 1212 1/12, till 1214 there was a SAH of some 2 Hz, weak mod., similar to or parallel 809.5 Delhi.
- 674 unID. Either Qatar or Libya, news in Arabic with items about Roma, Panama at 1237 12/29. Fade at 1248, return with Arabic mx so may have missed ID. This is past WRTH-69 sked s/off for Doha, Qatar.
- Thailand. Distorted, unlisted, Back to the Bible in EE 1843 1/5, must write Grand Rapids (or is it Lincoln,) find out who. (Listed 685 in June'67 FBIS, Thai Army (Cavalry center), Saraburi, 20 kW; don't have latest here to check at moment.-Ed.)
- 690 East Pakistan. APD2, Dacca II, news in Bengali (intonation resembling English) about Pakistan, Nigeria, 1205 1/12. Radio Pakistan ID 1210 and seemed to list MW freqs, mx 1211. Country #42 at 970 miles. Still need Cambodia, Macau, Ceylon, Sarawak, Sikkim, Bhutan (Rotsa Ruck on those last 2,hi) and Nepal, hi.
- 700 Malaysia. Radio Malaysia, Kota Bahru news in Malay 0731 1/11.
 701 unID. Either Muscat and Oman or Istanbul, ME lang 1422 1/4.
 (Pls continue checking; if the former, will be first instance reception has been reported.)
- 765 Malaysia. RM, Kuala Trengganu, muezzin 1740 1/11, always hrd.
- 770 Japan. JOUB, NHK2, Akita, only one listed, NHK melody under AFVN 1527 12/29.

- 780 So. Vietnam. Vo Tuyen Viet-Nam (see last September IDXD-Ed.), Ba Xuyen (xmtr Soc Trang), man in Vietnamese over China for a change, 1747 1/5.
- Jordan. Amman must be the Arabic here, talk, 1412 1/4 at 4288 miles, Cou #36.
- 802 China. CJKT, Peking, Chinese talk 1520 1/3, listed 803.
- 5 Thailand. (cf previous report) EE teacher explaining words, goodbye at 1527 1/12 then Thai ancmt, vibraphone (?)mx, hymn (?), modulation a little rough, overmodulated, relaying SW talk at 1730.
- Yugoslavia/England. SAH of 70/min, or 1.7 Hz (70/min would be 1.165 Hz; 1.7 Hz would be 102/minute, no?-Ed.) at 1522 1/12, a bit of audio. Although, relying on EBU readings published in NRC recently, Yugoslavia is a certainty, I am not counting this, or other SAH's yet. (Was listed 808.9983 in EBU report 11/29 DX News-Ed.)
- 809.5 India. Het long noted here, supposed it was this. AIR, Delhi 1145 1/11 Indian mx, 1159 TS, 1200 ID and news in Eng. Strong at 1846 mi.
- Egypt. Batra, Arabic ID in passing 1410 1/4, Polka mx (!) & I think this is prettyregular here but during the later morning 1/5 it disappeared.
- B30 Japan. JOBB Osaka, NHK2, one of the few stns also hrd in USA, a cinch at 2476 miles, w/NHK melody at 1528 12/29.
- Finland/Lebanon or France? Audio too weak to identify, but a pronounced SAH measuring 82/min (1.366 Hz, per my K&E,hi-Ed.) noted 1408 12/29. EBU lists France on the nose, Finland 1.3 Hz high and Lebanon another 1.2 Hz up.
- Japan. JOQK, NHK1, Niigata (xmtr Akatsuka) NHK melody (surprise) but soon covered by RTTY sidebands of China's 835 and 845, 1457 1/4. 25th freq on which a Jap hrd. (Interesting note, it would seem the Chinese must be sending teletype by "multiplexing" it onto BC carriers; it seems thus. If so, has been non-publicised until now. Can you determine if this is in fact what they are doing?-Ed.)
- Thailand. HSK28, Public Relations Dept., Bangkok, seems to prefer this to their nominal 856, where hrd when I first arrived, and for several weeks. In late December, to 862; for a week in early Jan'y went back to 856, and now (as of 1820 1/11) back here, on 862, with Thai songs.
- Malaysia. RM, 6-pip TS 1830 1/10, nx in EE, 1840 man and woman alternating items in Malay lang lesson for Eng-speakers and // 1140; low het and other CCI. Probably Kuala Lumpur ex-885, where never hrd. (Can state that K-L was on 880 in 1964 as so hrd; believe move to 885 was rather recent and of a temporary nature. Seem to recall they used to be on 875 many years ago, had been reported WCNA there, can't recall any other details, this was when I began DXing in 1957.Ed.)
 - Ryukyu Is. KSBK Naha logged again for report (time running out for K-prefix stns there) 1305 12/29 so appears to be AN, contrary to WRTH-69. Had American deejay talking about his

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"loaded newsman", rock; 1308 "Bob Murray DJ show", promo for basketball game, tickets at KSBK on Hwy 1 in Naha, 1312 ad for Club ---, BKB promo, KSBK Good Guys vs some coeds ...

890 Saudi Arabia.(?) Believe Damman (this is Dammam; is next to Dhahran-Ed.) in Arabic 1358 1/4 but soon covered by next:

- Ukraine SSR. Radio Moscow IS over Saudi, 1400 1/4, Uzhgorod listed, Creek sked, my first definite Ukrainian so Cou.#35.
 - Brunei. Radio Brunei is only 1112 miles away but traces of it before never developed into readability. Barely did so at 1806 1/5, English news, sounded like BBC. At 1809 a YL took over, perhaps pgm summary. A het was perhaps Canary Is. on 894, hi. (Hi yourself, hi-Ed.) At 1814 ID, TC for a quarter past 7, ID again: "This is Radio Brunei" (pronounced "nigh") then some LA-type mx. Is this Rerakas or Kuala Belait? (You are asking ME??? -hi, Ed.) Later, noticed a 6 Hz SAH 1/11 at 1730, bits of audio, also on A2 (tone-modulated CW-Ed.) a beacon, maybe harmonic from LW, giving ID "KP" twice between pauses, same as 1223 one. SAH between this and Iran.
- Iraq. Thourah, seemed closer to here than 907 (huh?-Ed.), Arab mx 1320 12/29, 1330 into dialog, but un-Arabic, at 1414 definite Arabic, probably news. Country #31.
- Japan. JOCB, NHK2, Nagoya (xmtr Okehazama) NHK melody 1527 1/5, Jap #27.
- USSR. Makhach-Kala, on Caspian Sea coast (see p. 24, DX News, 1/10/70, hi. At bottom. -Ed.) for those of you who have never hrd of it, either, 1559 1/12 "Midnight in Moscow" (Mayak) IS, 6-pip TS, Moskofskiy Vremya. SAH about 10 Hz (near the limit of my needlequiver counting capability-gh) (Aw shucks, I had visions of you using a Beckman counter, if not a Hewlett-Packard, checked out from Base Supply, hi-Ed.) anyway, we digress, SAH probably from Yugoslavia.
 - Turkey. TAZ, Izmir, Turkish talk 1526 1/12, fair strength.
 Thailand. Believe Camp Vayama is the only SEA possibility for AFRTS, had game carried by AFTN, but also by AFNT, AFVN, AFPN, and AFRT-Okinawa, but not FEN-Japan. Has been noted before.
 Nominal 50 watts. Under Chinese 1323 1/4.
 - 940 China. Hofei, Anhwei (only listed) 1321 1/12 powerful with that mx, 1323 YL discoursing in Chinese.
 - 944 France/RSFSR. Toulouse and Rostov-na-Donu (Rostov-on-Don), cl mx of fair strength at 1552 1/12, don't know which but both were in, 1.7 Hz apart, 1553 Strauss waltz.
 - and not hrd before since is on only slightly after my local on 950), 1055 1/10 evening mx, 1058 EE long list of titles, brief s/off anct, anthem 1059 and off. Hard to believe there are only 2 MW stns in Burma. (Not so hard if you consider the Ne Win government; the Burmese economy is practically stagnant, the population dispirited, visitors not welcomed in Burma, the rare reports from privileged people who have been able to get in for longer than 24-hours (length of a transit visa) or even for just a day make it out to be a pretty grim place.

-Ed.)

Japan. Another quick spin across the dial during NHK's melody time produced this commonwave of 5 NHKl stns, 5 kW max, at 1458 12/29; will eventually dig deeper for individual IDs.

965 unID. A mystery, 1420 1/5 had US mood mx, followed by ancmt in unID lang. (Hey, Cuttack supposed to be here, maybe you had them in regional dialect, whatever they speak there, hi-Ed.)

- 968,5 Thailand. Strong, EE love songs 1345 1/12, Thai ancmts, (TT means Tone test here hi-ed.) and maybe the 965 above?
- Taiwan? 1/5 1630 American girl talking on Natl Park Svce,
 Tenn Valley Auth.,, slowly, perhaps an English lesson, until
 1700 "that will be all for now. Tune in again next time." and
 GSTQ (or whatever Americans call it) (ATB?-Ed) and into lang.
 Rather frustrating after listening to clear EE for a half hour
 and not have any hint of what or where it was...
- 971 unID. Arabic or similar, group sing, fair strength 1428 1/4... perhaps Cairo with 5 kW. or increase?
- 985 Iran. Kermanshah, definitely Arabic, as per sked, 1345 1/5.
- 1000 Japan. NHK commonwave (max 1 kW) NHK melody 1457 1/5.
- 1007 European. 3- or 4-way SAH, dominated by 400/min, or just under 7 Hz...Greece/Holland/Yugoslavia/Spain, 1340 1/5.
- 1010 North Vietnam. A local, logged for the record, Tieng Noi Viet-Nam, Hanoi, girl in Viet talk 1847 1/5, 489 mi.
- 1016 W. Germany/Azerbaijan (?) 1440 1/12, 70/min or 1.7 Hz (same as 809, one or other-Ed.)
- Israel/Austria (?) 136/min, or 2.263 Hz, approx (hi) SAH against Soviet here 1408 1/4. Had Israel 1605 1/12 70/min SAH (lots of those, no?) vs USSR, at 1607 Soviet faded and other dominated briefly in Arabic (matches sked); Cou. #43 at about 4350 miles to Tel Aviv.
- 1040 China. Radio Peking dominates channel when it's on, logged 1535 1/5 with Chinese opera (?) and later in morning in Jap.
- 1040 So. Vietnam. Surprised to hear a familiar Australian voice here, Keith Glover, talking at 1751 1/12 mostly under China, but some phrases caught during pauses by the Chink and by tuting to LSB, around 1038. At 1753, clear IS as "Radio Australia" then mx. ID in passing again at 1758, then "The Girl that I love" as song title, played it, but TS mixed with Chinese one and one from 3rd station interfering. At 1800, TC for 9 hours, AET (Eastern Australia) so live shortwave relay, then news. By then, China had singing so little copied. Abruptly at 1809 China cut to weaker strength, but 'Aussie' was fading, and no more hrd. I think this must be the new Australian Forces stn somewhere (where is it?) in South Vietnam, previously reported in NRC, but freq then unknown. Unless, it may be a superpoewr relay at Darwin, beaming westward, that we know nothing about. (How about a report to ABC HQ to check on the latter possibility? Though, it seems remote possibility-Ed.)
- 1045 Vietnam? Rather animated talk, maybe commie, think Vietnamese, 0740 1/11, good strength.
- 1048 Thailand. Wor Por Thor 1, Bangkok, consistently back here ex-1043, noted Thai talk 1828 1/11.

- Turkey. Diyarbakir, 1/4 tentative at 1456 with gypsy mx, and earlier, Turkish-Hungarian sounding language, next day 1/5 at 1335 it was definitely Turkish, w/drama: Several voices, bits of mx, and at 1337 thought I hrd the phrase "milion dolar" several times...country #32, and Diyarbakir is the antipode of anywhere, per AF acquaintances.(no comment from me, hi-Ed.)
- Japan. Only one NHK1 listed here, Hiroshima, JOFK (xmtr at Hara) exc at 1458 12/29 with NHK melody.
- Philippines. DZWS, Associated B/C, Manila, typical Filipino pgmg, ad for Marvel in EE (and maybe some Tagalog) 1611 1/12; US mx. Hets squeezed it on both sides.
- RSFSR As. Kyzyl 1430 1/5 Peace and Progress IS, IDs not in Mandarin (Peking dialect listed). Any cause for giving any of these ASSR's country status, hi? (Just as soon as we find it)
- Japan. NHK2 commonwave, 1 kW max, NHK melody u/Korea 1528 1/12.
- North Korea. Kaesong, pgm II, in Spanish at 1540 1/5, evidently a (Castro?) speech about Corea, but soon voice-overed for Korean translation.
- 1088 RSFSR Eu. Perm, evidently, at 1432 1/4, altho sounded more like Ukrainian.
- Egypt (?) None listed, good signal at 1357 1/12 w/ME lively mx, 1401 YL Arabic anct mentioned "...Arabiya...Muttahida," (so, UAR, right?) dominated jamming from 1100 and 1105 and a Chinese or some such on high side. Arabic hrd for several hours at sporadic rechecks.
- Italy? 1435 1/4 strong and heavy 130/min (2.165 Hz) SAH, what little audio there seemed to be seemed an opera on one of them.
- Taiwan. Cf. // 1260. I am counting both synchros listed here BEP26 Kaohsiung and BEP25 Hsinchu, Provincial Police, since they were fading independently and audio was out of phase, WRTH-69 has sked s/off 1100 but hrd 1315 and AN.
- Libya. Bayda, a regular, nice signal at 1435 1/12, clear Arabic conversation ment Libya, some chines in BG (background probably from the SAH of 76/min (1.267 Hz)...GPN, What's the latest freq for Bayda?
- Philippines. DZHP, Manila, 1/4 1405 news, presented by Nescafe, in the clear, contrary to evenings when Calcutta is joined by a (new) Thai to QRM. However, DZHP was hrd the evening before and later that AM on unlisted 2420.
- Philippines. VoA, Poro, Vietnamese 1105 1/6, logged for record. Is far from free of QRM evenings, despite megawatt.
- Malaysia. RM, Kuantan, my clearest morning EE channel, fivers (5 by 5, or, s-9) 1818 1/6 mx, EE, no VoA or anything else to QRM.
- Thai TV, drift from 1146, Thai songs 1104 1/6, is usually on past local midnight.
- Japan. NHK2 melody at 1529 12/29, 2 10 kW's listed, JORB Kochi and JOPC Kushiro.

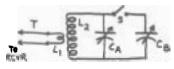
- 1155 Egypt. Holy Koran station, Cairo (Beni Suwayf) chants 1355 1/12, ID per FBIS, altho EBU says unID Egyptian, 1154.200v, but I'd say it was closer to 1155. 4566 Miles to Cairo.
- 1160 Malaysia. RM, Malacca, routine relog, 1103 1/6, Nx in Eng, QRM from Sweet Caroline. (Does she DX, too?-ERC)
- 1160 So. Korea. (?) AFKN Kwandae-Ri, weak, and only 250 watts listed, likely source for American spkr 1408 1/12.
- 1200 Taiwan. Chungyang Kwang Po Tien Tai, BED50, Taipei, or Taibei, M&W alt, 1/5 1557 o/jamming, 1600, 3-pip TS, with last one a full tone, ID, nx-march, nx. I hope WRTH-'70 has more details on BCC HS stns.
- 1205 Israel. Akko, listed EBU 1205.005, checks for 5 Hz SAH w/ eigher Poland or France, listed 1205.000; slight audio 1430.
- unID. Carrier here may have been a TA, or belonging to a beacon on A2, "KP", ID twice in Morse between pauses, was exactly like 895, 1630 1/12, weak. 895 and this have no common LW fundamentals, except extremely low trivial cases.
- 1230 China. Changsha, Human (listed) YL talk // 1220 at 1820 1/6. Thai QRM.
- 1259 Dodecanese Is. VoA, Arabic, 1440 1/5 but evidently jammed by an audio oscillation of some 400/min, centered on 1258, but inaudible on low side. Something new? Egypt? Later, was good in Arabic 1307 1/12; ERP must be considerably above 150 kW in this direction. Dominated the jammer on 1258 which is now making grinding sound.
- 1260 Taiwan. BEP22, Sheng Ching Cha Kwang Po Tien Tai, Taibei, provincial police, L&C at 1444 mi, dance mx 1312 1/12, CC ancts 1313, and is AN. ID by checking // with 1120, already mentiond. Easily separable from VoA-1259 with mech filter.
- 1270 So. Korea. VUNC (Voice of United Nations Command) Kanghwa Is., per Foxy apt to be closed, w/conversation in Korean 1550 1/5 including vocalized pauses, // 710 but not heard on listed // 600. (Glenn refers to info, recently sent him, appearing in the press stating that it has been recommended this station be closed down as part of the economy drive now edident in various US Gov't operations. -Ed.)
- 1280 Taiwan. Probably? But, which? Eng lang lesson 1620 1/5 "I watch-ed television often" with Chinese commentary.
- 1280 Japan. JOHW, Hokkaido Hoso, Obihiro, 1247 1/12 US swing mx, ancts in unID lang, but # 1290 and 6 Hz SAH. Faded independently from 1290.
- 1290 Japan. JOHR, Hokkaido Hoso, Sapporo, slightly better overall than 1280. 1309 1/5 recent US hits, YL Jap DJ, listened till 1320. Jap #26. Again, 1/12 at 1247, much better by 1300, again with girl in JJ.
- Azerbaijan? and ?. Eastern type vocal classical mx 1422 1/12 and 160/min SAH (2.665 Hz if you're fussy enough, hi-Ed.)
 EBU has no fits, but BBC/Yugoslavia = 3.3 Hz.
- Philippines. AFRTS game // AFTN-1450 here, 1303 1/4, believe
 P.I. is only SE Asia AFRTS here, several outlets listed.
 Turkey? Albania? OC 1417 1/12 and brief TTs.

- 1312 RSFSR Asia. No, not Simferopol, I agree, for had Peace and Progress show in Peking dialect (presumably spoken around Peking) // 1079 at 1435 1/5. Vladivostok is in some lists as 1313...I won't swear to 1312, since my calibration is poor in that region. Also 1/4 at 1401 with ID as "Mos Cow Bor Deen Toy" or some such.
- Australia. Was wondering if any DU's would ever show up, and my first turns out to be a 2-kW job! 3BA (not an ITU callsign, so should be in quotes) with ID in passing 1343 1/4, 1345 AET TC, "Information station, radio 1320", mx by Hirt, Campbell, etc., fair strength in the 4500-mile range, gone before 1400. Country #34, reported.
- Japan. NHKl graveyard, all are 50w or 100w, adding up to good reception, 1503 1/12 with talk, NHK ID 1504, was // to 610, had that "multiple sound". (Sort of like BBC-1214 is sometimes had over here, or maybe 1400 when the President speaks to the Nation in the evening, all stns w/same audio)
- 1367 Kazakh SSR. Petropavlovsk, 1712 1/12, Chinese but with a ½ Hz SAH, who this?
- 1402.5 China. Chinese 1710 1/12, perhaps Wuhsi, only one listed as 1400v by FBIS, or perhaps Conakry now relaying Chinks.Hi
- 1420a China. Chengchou, Hunan (only listed) 1/7 1837 typical Chinese talking, het on high side, path along terminator.
- 1421 W. Germany. 1/3 it was tentative at 1834 w/mx, anct in un-ID lang, and old US rock, but 1/4 it was definitely German at 1836, so logged Europawelle, Heusweiler (Saar) and did not make it thru the QRN on 1/5.
- 1439 Luxembourg. Tentative. Some mx here 1/3 at 1831 while Germans being hrd higher up, however on 1/5 at this time there appeared to be a SE Asia stn here.
- 1450 Thailand. Local AFTN Korat (altho never IDing by base or city...just AFTN-1450) logged for record at 0937 1/7 with Tonight show, extremely strong signal at 300 feet distant. It is not on 1360! I do hourly nx 1300-1800 daily (that's in EST as are all else in this section)daily exc. Mon.
- 1460 China/USSR. Some question has been raised about my conflicting loggings here...no Soviet is known on 1460, and China is in Russian...my second logging 12/13 at 1156 with Internationale and off, was reported as USSR but was likely Huhehot. However, the night before, at 1124, my log clearly shows: "Govorit' Moskva"; having hrd that ID so many times, I do not recall this specific instance; I do recall, however, noting it was not on 1457 but on 1460. Shall check further.
- 1484 European. Some more hash, 1616 1/3...if I were a Wood or a Millar I'd probably sit here and ignore the rest, but not yet.
- 1493 RSFSR. A bit of Russian again here 1835 1/6, by YL, into mx, so Leningrad, Gomel sked to be off. Also signs of 1421, 1484 and 1511 this date and time. Had Leningrad carrier on 1/3 at 1815, 8-note IS at 1829 and Russian anct.
- 1490 Japan. Radio Sanyo, Okayama, YL giving call JOYR thrice, flutish mx, 1516 12/29. (out of sequence, sri, ed.)

- 1507,5 Visions of a Maldive Is. ET disappeared at 1820 when TT monitored here, probably ex-1512, w/same rough carrier hrd earlier, open at 1650, at 1705 it was up to 1508.
- East Germany. RBI, Koepenick. In nicely 1/3 after sunrise. At 1842 GG man talking about DDR, 1843 YL "das war.." and ID "Hier ist Radio Berlin International, Deutsches Programm fur Europa..." listing xmsns with MEZ (mitteleuropazeit) & meterbands, incl 198m MW; 1843 8-note IS twice, mx, anct by YL, light mx, and then beginning to fade. 5345 miles to Berlin, cou. #33, reported. Again 1/4 at 1835 with German comment about Red Congo. On 1/5 at 1833 was German but badly squeezed by 1510 and a Thai on 1512.
- unID. "Broadcast to Africa" in Eng was all I could catch at 1712 1/5. Thought might be new 200 kW Zambia, being installed by ChiComs; NRC IDXD p. 9 1/3/70 says not yet being built so was perhaps next item.
- Philippines. DZEM, Rizal, 1700 1/12 s/on in EE giving CL (call letters) and mentioning Radio Control Office (Phil'p = to FCC) "Swinging Safari" mx w/ Tagalog talkover, QRM rather severe.
- China. (3 stns listed for 1520) M&W in Chinese 1645 1/12 CJKT // 645 and 660 but not // 635, noted rapid frequency flutter when monitored with BFO. (Again, perhaps, a form of telemetry or coded information transmission? -Ed.)
- 1525 China. Urumchi, clear of QRM for a change, 1855 1/5 with Internationale, 1856 off. (Should be audible ECNA under optimum cx, who's going after it??? -Ed.)
- W. Germany. 1/3 tremendous signal as was 1586, at 1815 w/YL GG anct, 1828 piano, on 1/5 1832 cl mx, gradually overcoming the Viet on 1537.
- Taiwan? or, more exotic? American-type stn hrd here until ½-hr after LSR here and 90 min after Taibei LSR, at 1444 mi, 5 kW, would not expect such a daylight path (yes, midwinter, but sun is higher here, now, than midsummer in states!) First noted 1/10 at 1852 giving out phone numbers, etc, perhaps "bulletin board", at 1900 CBS news with Neil Strauser (that's Strawser -Ed.)could be AFRTS relay, low het QRM, tried to check // 7215 but not hrd. Any chance for a USA CBS? (no domestic log here, hi) or XEVIP, hi? Tried 3 mornings since, no luck. Usually noise is in and Taipei is out by 1815 or so. Another possibility is a SE Asia AFRTS stn, not in Thailand, that I don't know about.
- 1562 European. Mess here 1817 1/3, not had the 4th or 5th.
- Taiwan. Last of the AFNT trio, Taichung, strong at 1332 1/4 with AFRTS Broncos/Vikings game // 1560 and 1590.
- W. Germany. Exceptionally strong, rivaling many nearby stns. 1/3 at 1815, 1852 fading but still good, 1900 3-pip TS, wx, just a disappearing carrier at 1910; not bad considering our LSR was at 1838! Reported. 1/4 almost as good 1820, slight QRM from USSR; 1/5 only fair at 1804. Peaked as well as before at 1829 however, all out by 1850. No sign of 1602 on these 3 days. USSR dominated 1/6 at 1832, s-9 but HNM. On 1/10 not even a carrier on 1586 at 1815 and 1850. On 1/12 a slight carrier, probably USSR around 1845. ----That's all.

DCL: DIRECT COUPLED LOOPS

The usual loop is one that is inductively coupled (ICL) and has the following schematic diagram:

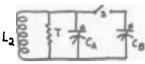


where T is the feedline connecting the loop to the receiver and can be made from two-wire twisted cable (of the homebrew type) to coaxial cable or shielded two-wire cable. L₁ is the inductive coupling which is usually one turn and almost never more than three turns.

L2 is the main loop winding usually containing 5 to 15 turns of wire--the number of turns depends upon the geometry of the frame-crossarm structure that is used, upon the spacing between the wires and the variable capacitor(s) CA and CR used as well as a few miscellaneous parameters of relatively small significance. The switch S is used to connect CB in the circuit to achieve resonance (signal peak) on the low end of the BCB. In almost every BCB loop, CAand CR are actually two separate variable capacitors, but are mounted on the same frame and have a common rotating shaft--indeed, loop builders commonly use or consider for use only one type of variable -- the popular "standard broadcast" 2-section 365-10 picafarad variable used by almost all radio manufacturers in the "All American Five" table radio as well as most other AM radios. The antenna is L_2 , C_A - C_B and can be called in EE-parlance: a parallel tuned tank circuit. Radio waves passing through L2 induce a voltage causing current to flow and by adjusting CA-C the parallel tank is adjusted to achieve resonance -- a condition in which the siganl in the antenna "peaks". L1 "looks" into L2 by magnetic coupling since current flowing in L2 causes current to flow in L1 and this induced current-voltage is what is carried to the receiver by T. Now the interesting thing is that the antenna circuit L2, CA-CB is extremely inefficient and actually "intercepts" very very very minute amounts of energy from the passing radio wave. Further, the coupling between L1 and L2 is at most "fair" so that an even smaller amount of signal is carried to the receiver -the figures are almost unbelieveably small compared to the energy of the passing radio wave. In fact, looking at a loop theoretically on paper, it would appear to be a totally useless antenna. In practice things are even worse than paper calculations, but as we all know--loops work!!! One can only try to increase the efficiency of a loop by getting the best variable capacitor available and then design L2 to have optimum properties and to improve upon the sampling probe" L1---exactly what Gordon Nelson has beautifully accomplished in the state-of-the-art loop, the FET-Altazimuth.

The purpose of this writing is to discuss the latter condition—a way in which L_1 can be eliminated and a direct connection to the antenna L_2 , C_A — C_B made which gives a very significant improvement in signals delivered to the receiver—the DCL, direct coupled loop, an arrangement in which the line T is tapped to L_2 directly or by means of a FET preamplifier. The problem is that no superior or proper circuitry is easily accessible to exactly "match" L_1 to L_2 so that maximum energy is transferred to the receiver. So, what is the next best alternative is to voltage feed L_2 and we want to bring this voltage right to the receiver so it can be utilize the loop signal to a much greater degree. But it is extremely important that

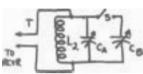
this "voltage sampler" does not appear to L2 as a low value of "resistance" Examine the following circuit diagram:



The line T and what it connects to in the receiver can be viewed as a "resistor" hooked across the ends E_1 and E_2 of L_2 . If T has a very low "resistance", then the voltage induced by the passing radio wave across the ends E_1 and E_2 of

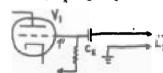
 L_2 is severely reduced and things are worse than before! Hence, to preserve the maximum (or very nearly so) voltage across L_1 . T must have the highest "resistance" (impedance) possible. In practice H T is at least one megohm (one million ohms), results are good. So suppose you take that loop you are now using, remove L_1 and connect T across L_2 (same as connecting it across C_A):

If you then attach T to your receiver as before, you get nothing because in the conventional receiver you have this circuit (T connects to A_1 , A_2):



removing C1, L3, L4:

But L₄ is just a few turns of wire wound around one end of L₃ and it simply "short circuits" L₂-result: TILT!!
So, connect T to V₁, the RF stage as follows,



Then voltage V in the loop is delivered to the control grid, pin "p", of V₁, the first RF stage and T as a "resistance" is very high-likely something on the order of a megohm. Further, the varying voltage V applied to p is exactly what "makes V₁ operate". Now

you have a very significant amount of the antenna voltage delivered to the receiver. But, as life goes, so goes the law of nature: You cannot have your cake and eat it too!! T also has capacitance associated with it and it appears across the circuit as C_T below:

The result is that your loop which previously L tuned to 1600 khz does no longer! The larger C_T the lower the highest "peakable" frequency will be. The first remedy is to

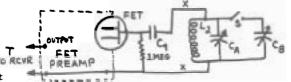
frequency will be. The first remedy is to remove turns from L_2 , but this reduces L_2 signal pickup—undesirable but the result in some cases will still result in a significant improvement in signal strength. The value of C_T for a given type of line T depends on the length of T, the longer T, the larger C_T and the greater the reduction in top end frequency peak. Suppose for instance T is RG-58/U coax, then if T is L feet long, $C_T = 30$ L picafarads. Now C_A - C_B reach 365 picafarads or so to tune the loop at 540 khz. About 10 feet of RG-58/U will then lower the highest frequency peak attainable to the very low end of the BCB and to compensate too many turns (if not all?) of L_2 would have to be removed. The lowest valued line in capacitance per foot commonly available is 300 ohm TV twinlead which runs about 5 to 7 picafarads per foot. Thus 10 feet of TV twinlead gives C_T a value of 50-70 picafarads, not as severe. Also, reducing the value of C_2 will compensate to some

30

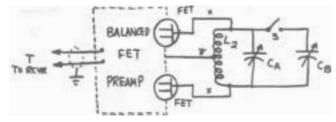
degree for the increased length of T, but this also reduces signal voltage at pin "p" of V₁. The DCL gives then a very significant improvement in signal-to-noise ratio at the receiver. Clearly, under these conditions T should be as short as possible.

If T were almost of zero length, then V₁ would be mounted at the antenna itself and this can be accomplished by installing a high-impedance to low-impedance "transformer" with lots of gain (better known as a FET preamp) right at the antenna. In fact, this is exactly the situation in the FET-Altazimuth loop when used with the FET's -- it is a DCL! In this case no receiver modification need be made. T connects to the output of the FET and connects to the receiver in the normal manner, T can be made of a nominal length of cable and in addition even more gain in siganl is obtained. Gordon Nelson has published two FET preamp circuits which are applicable here--one is a single-ended unbalanced input unit, the other is that FET preamp used in the FET-Altazimuth loop which is a balanced input/output push-pull unit having extremely high input impedance and superior high frequency stability. Information on these units can be obtained from Gordon at NRC headquarters. Since most loops are used in the unbalanced feed arrangement, the single-ended FET can be connected as follows to your present loop under DCL conditions:

and wires "x" should be as short as possible. Some care must be taken in this case to maintain high end



stability of the FET, but the effort is well worth it since L_2 is relatively "undisturbed" so the voltage drop in the antenna is kept at a minimum. The FET preamp of the FET-Altazimuth loop connects to L_2 as follows:



Again, wires "x" and "y" should be very short! Connection "y" on L₂ is at the exact middle of the L₂ winding. Mounting this FET preamp much like it is described in the FET-Altazimuth loop is to be reccommended. In all these cases, a little patience and reflection upon the problems that can arise will give you the necessary steps to take to eliminate them. The end result is a loop antenna, the DCL, which will prove to be a most significant antenna over the customary ICL--something a serious BCB DXer can now discard as inferior! You can start by removing L₁ from your ICL and employing the above techniques to suit your needs. Of course, the FET-Altazimuth loop is a further improvement in that L₂ has been optimized to have the desirable properties necessary for BCB DXing. In conclusion-- DCL, the only way to fly the BCB!!!



EBITON: PERSON J. DEGRANDE BOX BAS WORDS, R.J. 87476 31

Greetings and solutions, folk. Tho! I'd have said Sunday it'd be a small column, the mailbox this AM proved me wrong. This time, I've included some r/c's hrd reported in other parts of DXN in the past 2 weeks, all noted (NRC) for that reason.

PLEASE do not submit unID TT's unless you have something specific for someone to ID it by. If you have format, and a definite s/off or s/on time, or some other special circumstance, then OK, but otherwise, they'll not go.

A WORD about abbreviations. I've had some questions, so: Unn. denotes the word "unneeded", i.e., something hrd before (bl); Abt denotes the word "about".

Ard. denotes "around". Now, on to the DX:

midnite to sunrise

	miguite to saulise						
	540	CBT -Nf-	Hrd on NNRC TEST 1/12 in well 0102 (Mark Katz, Arlington, Ma) Likewise hrd w/ CBK mulled for province #9 0058-0130 (Jerry				
	_		Starr , Youngstown, Ohighyo)				
	610	WDAF-Mo-	Hrd w/ WIOD nulled 0045 w/ MOR (Richard Clark, Ft. Lauderdale,				
			Fla.) Welcome to DDXDRjE . OH- that's 1/12 -RjE				
*	650	WSM -Tn-	Was AN MM 1/12. (Starr) But not AN w/ RS anyhoo 1/19 (RjE)				
*	660	WNBC-NY-	Was off by 0100 1/19, but naught else there. (RjE)				
*	710	WOR -NY-	Had OC 1/19 0000-0030, and TT/OC 0030-0130+. (RjE)				
		CKVM-Qu-	Hrd in FF u/WOR, w/ CBC FF Net feed 2323 1/17 (Katz)				
	730	CHIR-On-	In w/ HI (Yecch) way o/ usually dominant CKAC 0255-0305 1/19				
		CKAC-Qu-	Weak in FF 0130 w/ qrm de Cuba, Mexico(Clark)1/12) (RjE)				
	740	CBL -On-	Hrd @ olo5 s/off weak (Clambk)				
*	770	WABC-NY-	Off 0045 on 1/14, and most of AM. Also off much of 1/15 AM				
			(Page Taylor, Butler, NJ) And off by 0100 1/19 (RjE)				
		KOB -NM-	Finally hrd w/ WABC off totally w/ NBC nx 0104 1/19 (RjE)				
	780						
	•		1/12 TEST, +20/89 sigs, shallow audio (Paul K. Hart, Ft. Worth)				
			W/TT & taped ID every 2 mins. copied 0100-0130 w/ WBHM(Starr)				
	860	WAMO-Pa-	Testing 0100 w/ reb, quite clear, 1/12, thought I was back in				
			Pgh at the time the way it came in (Clark)				
*	870	WWL -La-					
	910	WRNL-Va-					
*		WGST-Ga-	Hrd w/rr 0305 1/12 o/ CKCY, apparently on for bad wx. (Bob				
	,		Hostettler, Minnesota)				
	930	WSOC-NC-	Hrd w/ Charlotte wx 0125 1/12. (Katz)				
		KHOS-Az-	At v. good level w/ C&W 00307-0330 1/12, tape & report sent				
-			for Ariz. #8. (Starr) Some guys have all the luck -RjE				
	950	WPEN-Pa-	ID & phone-talk format 0135 1/5 u/KPRC (Dick Truax, Charleston				
	.,,		W. Va) Welcome to DDXD, Dick - RjE				
	960	WFIR-Va-	In o/all @ 0530 w/ nx headlines (Hostettler)				
	970	WWSW-Pa-	Hrd another hometown stn in this one, often u/ WJRZ, WAVE				

1/12 0300 (Clark) WJRZ makes it THERE?? -RiE

1000 KOMO-Wa- Beautiful s/off 0300 1/5 just after KEOY s/off (Truax) Aha,

CBW -Ma- Only one there 0200, but couldn't get rid of it. (1/12)(Clark)

so the pest signs off, eh ... KOMO, here I come -RjE

2			
	1000	KIRS-SD-	Hrd on DX, quite powerful, w/ late s/on Olli7 12/22 w/ ohw mx. (Starr)
		WOV-AL-	ET/soul mx 012h-0131 1/hh o/ WCFL (Taylor)
	2020	CFRB-Un-	45 1 2 7 THE 0000 1 /19 (Classic)
	2050	GJIG-On-	Had weak to CHIM. INC. w/ Will off totally to 0030 1/15(h)4)
	3020	CHA -NB-	Hed on TEST #20/9 1/19, on aiready & 0039, two bonecuted
	Tota	OTHER PROPERTY.	for 0100 s/on, and already well into pgs. (Ala)
- 9	2250	KLUC-Ny-	Per verie, all tests occur on Mi's (Starr)
-	1250	WDAE-F1-	Hed way H/ WTAE 0030 1/17 W/ ID (Taylor) H
	Teho	WIAE-Pa-	Red way u/ What 0300 1/12, for 4th Fgh. stn. (Glark)
	1260	MADO-DO-	Wash & Olon 7/12 w/ ORM de Cuba (Clark)
	2200	MBDCT-Oh-	TEST had poorly u/ lotsa QRM w/ ID 0200%, then 3 times in
			managed on (Pate)
	1280	WVTC-Hn-	Noted w/ nx @ 0230 1/12, so probably Nor (mostercier) '118,
			non Ann Charman -RAE
	1290	WIRL-II-	Wated componently are 0233 112 w/ KDIL alone (Mostettier)
	1310	KNOX-MD-	TO w/ This 0121,0126, 0131 & s/off per 1/c list 1/5 (Irust)
		KUOL-Mo-	Erd here w/ ET-mx 0235 1/12 (Hostettler)
		KAYS-Ka-	1/15 s/off c107, SSB (Hart)
	11,90	KTOP-Ka-	On AN 1/12, was dominant w/ KDON 0200-01/00 (Hart)
		KDRO-Mo-	Tremendous signal & SID 0240, notone, and this the only ID
			(Hart)
	1520	KOMA-Olo-	In well w/ mx, spots w/ address as Hox 1520, Ok. Cy. Hrd
			min 102 (Kata)
	1560	CFRS-Qu-	Had ET 1/17 0130+. Came on w/ "Stmangers in The Hight" (of
			Vay, -RjE) then SID (as were they all). Later played a thing
			calles "GQ Serenade" which had code in bkgd. Sigs. +20/9
			(Page) And what'll they think of next? "Strangers in the
			Night" indeed11or was it "Etrangers de la Nuit" 7-RJE
		KPMC-Ce-	W/ Al nx, ID, & olw mx 0155 1/5 (Trunx)
			sunrise & daytime
	0.000		Hrd u/ Cuban w/ loop 1/12 w/ rr 1430. (Clark)
		WSFO-F1-	
4		MDIX-SC-	
	1310	CFTEM-On-	u/ it. (Morris Sorenson, Emsdale, Ont.)
		weeks at-	
		EFH -Ea-	
	1590	WERA-NJ-	splash all over. Pattern must be off a bit as never had
			here by (Chris Lucas, Fairfiedl, Ct)
			sunset & evening
	600	WUVP-NO-	S.off at 1745 1/4, all alone (Trusk)
		CKVII-Qu-	The same was a same and the sam
	5.44	ntratt-du-	32/20 (03400 Rano, New Camagn, Ot)
	700	0830-0n-	Hed w/ good sigs 1809 1/7. Hare here. (III Davisses, Actour,
	130	J - 600/0-504	Chiarben Welcome to the fold, Tin =635
	85.0	unID	CMW format 1805 1/7, so must be Willy being thin all said
	04	MILLE	kas, Haledon, NJ) Welcome, neighbor -RJE
	BC	OKVI-Ou-	TO TO 1600 10 ANOM (TOURT)
		O KLCN-Ar-	TO A THE TYPE THE MANNEY TOTAL MINE THE THE LITTURE
		TH-VARM O	o this thee we of UFTS sulled 1940 170 (1700)
		O CKAD-3a-	Hed on 333 W/ FF 1051 12/5 on a good sammer of the
	105	D CKSR-Ma-	PP TD 1905 1/1 u/ CHUM/WHS (Truex)
	110	O WIPA-Pa-	- Beautiful s/off 1700 1/7 w/ Mil nulled (Iruak)
	17707	MHLT-NY	- S/off 1615 1/4 w/ WIND mulled (Truax)
			A STANDARD CONTROL OF

1130 MCAR-Mi- Hrd on SSS u/WHEW 1629 12/9 (Reno) I 1000 WQTI-Al- Hrd in for a moment quite strong 1/7 1751 (Davissoh) WYOY-Al- Like a ton of bricks @ 1/7 1755 w/ rr, ads/ . (Davisson) 1150 WAXX-Wi- Hrd w/ mention of PM mister stn. 1740 1/5, equal to WCUE (Davisson) MOGH-II- O/u WCUE 17h5 1/5. (Davisson) 1170 WIXE-Wi- In u/ WWVA 1739 1/5 (Davisson) 1220 MONY-NY- CAN ME & SID 1628 1/4 (Trusk) I llh0 unID 1700 Dec. s/off w/ religious message bu it. (Alissuskas) I 1120 WMUL-MY- Hrd 1626 1/17 w/ "The World Tomorrow", then rr. (Kata) 13h0 unID FFC hrd here eves w/ no ID's. Is this Lac Megantic? (Renfrew)(Not sure - RiE) 1360 MERC-Ct- ID & rr o/WSAI in good ox to ME 2030 1/6 (Trusx) 1110 MFOP-Ot- Mx & SID 2015 1/6 o/WIND-KQV mess (Truax) 1510 WAUK-Wi- Hrd well o/u WLAC 1739 1/7 (Davisson) 1540 CHIN-On- Nice w/ 00 0 1638 12/14. (Reno) 1550 WRIZ-F1- Hrd 1/7 1713 w/ ad for food market on NW 67th st. (Alisausicas) changes 560 KLZ -Co- Is NSP (NRC) 610 CHRL-BC- Essloops 1000 U2 Is on. (Taylor) 630 KIMB-Mn- Will remain 1000/250 Ul for at least another month due to fire damage (Hostettler) 500 CJLI-On- 10C: Thunder Bay (Sec. Sherman, Minnesota) 580 CKPR-On- LOC: Thunder Bay (*) 1000 CP -Nb- Plattemouth, Nb., 680kB; 250 D3, 625 lst Av. (RjE) 1230 CFFA-On- LOC: Thunder Bay (Sherman) CJNL-BC- Merritt, 1000/250 UL. Is on. Presume this relays CHNL-610 (Taylor) 12h0 C.MD-Qu- Is call for Chibouganau. 1000/250 Ul (Taylor) 1290 KTRN-Tx- SCH: 24 hrs. off MM (Hart) 1310 CHOB-Qu- Granted CF to change location to La Pocatiere (Taylor) 1340 CKOF-EC- Is call for Grand Forks. On. (Taylor) *X 1320 KRDD-NM- FCC rescinded decision to delete. Stn will remain on. (RjE 1360 KRCE-Ca- FCC Upheld notice of deletion, Effective 1/11. (RIE) 1380 KWK -Mo- Is off MM'S. (NRC) 1 20 KREN-Wa- PCC upheld notice of deletion. Effective 1/31, (RjE) 1450 CKTR-Al- Jasper, 100 Ul, relays CJTR FF. (Taylor) CP -Al- Jamper, Alabama. DELETE this item, as it was my error, I confused the "Al, " w/ the above when it appeared in Cooper-Trent swhile back. (RIE) +I 1340 CKVT-Qu- Temisoamingue, 250 Ul (Taylor) Is on... 1530 WELA-NJ- Target date for pgm tests is 2/17. Will be on w/ ET's from approx. 2/1. (RJE) 1560 CP -BC- Warsaw, 28398, 10000 Dk (DA-CH only), Box 585, (RjE) WISE-F1- FCC granted request to delete nighttime operations. (RjE) F/C 1 DECEMBER: KGAK-1330 NM; WABH-1150 Va; WCCB-1580-II1; WJFF-1340-II1.; WYNS-1150 Pa.; KXEO-1340 Mo; KWYO-1410 Wy; KYNM-1400 NM; MLCS-1530 A1;

WLDY-1340 W1; KPEL-1420 La; WDEA-1150 A1; KVOX-1280 Mn; WLSI-900 Ky; WMTR-NJ-1250; WEEI-960 Ct; WATM-1590 Al; ECHE-1350 Mo; (by MEC).

JANUARY: EVOX-1280 Mn; WLSI-900 Ky; (by MRC), WDMF-1500-NY; WVNJ-620-NJ: WELI-960-Ct; WIAZ-990-II; WIXY-1260-Ch; KDTH-1370-Ia; MAFC-900-Va; WSIJ-790-Va; WMNS-1360-77; WBCI-740-Va; EWVI-1470-Ia; WHHC-1270-SC; WHUB-1400-Tn; (by Page Taylor), EXEF-1310-Mt (by Bob Hostettler),

WCAZ-990-II; WDXI-1310-Tn; KIJV-SD-1340; WJZM-1400-Tn; KXRA-1490-Mn; KNBI-1530-Ka; KLPM-1390-ND; (by Paul Hart) KNGX-1310-ND(by Dick Truax)

ALSO: New f/c's or r/c's (as per other lists) noted by MRC:

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R/c Ist Fri. 0445-0500 w/ DT
R/c 4th MM after 4th SM 0525-0540 w/TT
R/c is now 4th MM after 4th SM.
R/c 1st FM after 1st Tm. M 0000-0015.
R/c 3rd WM 0230-0245
F/c 3rd WM 0245-0300
R/c 4th SM(Su) 0100-0115 w/ TT
R/c is 3rd MM after 3rd SuM, 0000-0030 (chanje)
R/c 3rd MM w/ DT 0200-0215
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NOTICE: OFFB*1200 will TEST for NIRC/MRC as arranged by Pat Taylor on February 23 w/ 0001-0700 EST w/ mx, ID's & 1000 Hz. tone. More info re mx type, etc. later as per stn.

REMEMBER to consult the CP list appearing last week and to check on those stns. you know of or are near you and report answers to me.



Gordon P. Nelson 19 Irma Avenue, Watertown, Mass. 02172

We had a bit of space left this time so I thought I'd comment on a few of the items in this issue. Bob Hoffman, your station on 818 is interesting; the most likely bet is Warsaw but that's an unusually large DF anomaly. That's a bad channel for DF, though; could be that there was anough TVI present to throw off the bearing without being audible. That channel is used by both Warsaw Home and Foreign Services and they use different interval signals; send up a copy and I'll check it with what I've got. Don Kenney: I've seen information to the effect that there are at least 4 separate Russian stations on or around 1525; it's likely that they've got enough transmitting power North and/or East of Sinkiang to pull the bearing a bit. My best DF from Massachusetts (made when I last hrd 1525 two years ago) gave a mean bearing which passed East of Urumchi, between there and Hami. I wouldn't be too surprised if the station is located in North Nothern Sinkiang near the Buluntuchai Lake region which is a likely site for the high capacity hydroelectric station that powers 1525. Foxy - the BBC on 701 was reportedly heard in N.Z.; see my section 1/11/69. Glenn Hauser: on 836, Beirut is now 2.5 cps high; USSR is 0.3 cps low, and the Finn is 1.3 cps high, relative to ORTF. On 895, Brunei is now Barakas I believe. The Australian FBS outlet is in Vung Tau, S.E. of Saigon. Kyzyl in the Tuvinsaja ASSR (located N. of Mongolia; the old Tana Tuva, a prewar country known only through its postage stamps...) is too far down in the political-administrative hierarchy of the USSR to count as a separate country by our present standards. 1106V is indeed an Egyptian; definitely ID'ed here a few days ago. I'll measure 1124 and let you know next week. No record of jamming on 1259 here. On 1295, Baku/Slav SAH is now average of 3.8 cps. Be a bit careful about using these average SAH freqs; except in the case of supersophisticated operations like the BBC, many wellrun stations vary by a fraction of a cycle normally; the poorer the country the greater the drift - I'd like to see a plot of frequency drift vs GNP for some of these countries with state operated broadcasting stations...

DAVID LONG - 66 Beattie Avenue - Lockport, New York - 14094

Greetings! The past few weeks have been very good to me. KORL-650 noted w/a nice signal on 1/5 & again 1/12 @ 3:30am, good enough for a report. While tuning down low, the Algerian and the Swiss on 529 came in 1/8 & 1/9, respectively. Both were sufficiently audible for tape recordings. SBC had a GG program w/a lot of alpine mx. QRM from the North Bay beacon wasn't as bad as I had suspected it would be. Other catches include KONO-860 1/5 @ 1:30am, KNOE-540 1/8 @ 6:15pm, WWVA testing w/5,000w on 1/5 @ 1:40am, KSJB-600 1/12 @ 7:40pm, my first from N.D., and WJAG-780 TESTing w/both 500 & 1,000w (Thanks, WBEM!)
Today 1/13, I caught WCPC-9'0 @ 6:15 s/off & HIDV-1200 @ 7:20pm which equalled WOAI in strength. Dominican Republic is my 9th country. Recent veries include KWMT-540, nice card byt absolutely no reference to confirmation; WTHM-1530 who returned my režort w/a station stamp & v/s. WMID-1340 v/1 & a CM; and best yet, KWYO-1410 who tested 12/19 @ 2am, m first and probably last from Wyoming, hi! I got my Hallicrfeters S-76 back from repair two weeks ago & it sure has improved reception. That's it from WUSJ-land, so best of DX & au revoir!

RON CHRISTEN - 30 Lucille Drive - Cheektowaga, New York - 14225

1/11- WWSR-1420 s/on heard @ 6:0lam for a nice Vermont catch,
should be using 500w. PSA at this time, right? Report out. MM 1/12- No sign of
the DX Specials, or 650 Hawaii. Here's what did show up: HJER-1025 in @ 12:34a
m. KOB-770 ID heard @ 1:24am w/ID for first N.M., not enough for a report,

TT, who? CKKW-1320 @ 2:52am, WHIS-1450 @ 3am, HJCN-1100 @ 3:50. TT heard on
1340 from 3:56-3:59 fade, was very weak but readable, probably was the KPRK,
Mont. test. AFRTS-780 Puerto Rico outlet heard w/NX anding @ 4:05am & ID as
AFRS mentioning 24 hour operation. After ID they either went under fast or bean playing SS mx. PJD2-1295, for new logging @ 4:19am. 780 again, strange IS
w/several variations of the same basic melody heard 4:25-4:29am. Too early for
ZBVI, I have it on tape, any ideas? Last 1/12 logging, of course on 780, hi,

was ZBVI @ 5:45am w/religion. v/1 from WKND, reports to WWSR WDSL. 73.

KEN LYON - 9415 Goodrich Road - Clarence Center, New York - 14032

DX since last week: 1/3-WCRV-1580 @ 4:58pm w/s/off-hymm, QFM from

CBJ; CJNR-730 in for real surprise @ 11;25pm o/u CKAC completely gone @ 11:43pm.

1/4-WDEL- 150 @ 12:16am w/MoR, NBC spot announcement, bad QFM from CKOC. 1/5-WGHN-1370 f/c-TT 12:19-12:28 w/WSPD, KNOX-1310 f/c-TT 1:17-1:31am, QFM from WIFE.

1/6-WVOV-1000 heard u/WCFL @ 5:34pm till s/off @ 5:59, first heard here. 1/7-KSOO-1140 heard @ 6:03pm w/ABC NX u/WRVA. 1/8-WDSM-710 heard @ 5:3Cpm w/NBC

report till pattern change @ 5:47pm when they vanished. KUCM-770 @ 5:56pm c1 mx

s/off @ 5:59pm u/WABC, KWKH-1130 @ 6:11pm w/NX till fade @ 6:27 u/WNEW, CKRC-630

in very strong over all @ 6:35pm. 1/9-WKMI-1360 heard @ 5:16pm w/NX good till

fade u/WSAI @ 5:28pm. 1/10-WSIP-1490 f/c-TT 4:02-4:15am, very tough but ID

vaught @ 4:14am. One verie this week, WTSN-1270 nice v/q for N.H. #1 verified.

FRED NORDQUIST - 302 Sandra Lane - North Syracuse, New York - 13212

Some new loggings made since last Muse, as follows: 12/18- WWIE
-1170 N.Y. w/MoR@ 10:46am. 1/5- WERE-1300 0. w/World Tomorrow, thnaks to Jay
Murley's program sked in 1/5 DN NEWS, 10:59pm. WOC-1420 Ia. w/sem program @
11:22pm. 1/6- WFIR-970 Va. new, c1 12:01am, s/off w/Lord's Prayer 12:08. 1/9WCPC-940 bombing CBM, s/off w/Dixie 6:13pm, KOAM-860 Kan. w/NBC NX network ad
6:25pm. 1/10- CET-540 Nfld. noted w/CBC NX, WX, c/w after KWMT s/off 6:15pm, report sent. 1/12- WOLF-1490 N.Y. TT/OC 12:30am, CBH-860 N.S. o/u CJBC w/NX, CBC
program Theatre 10:30, 9:13-9:31pm, CHN-640 Nfld. w/NX, ID @ 10:03pm, CHGB-1310
Que. w/FFC NX 10:35pm. 1/13- WFMD-930 Md. w/rr, very few IDs w/WEN looped 9:58
pm, CBK-540 Sask. finally w/CBC program, WX advisory @ 10:59pm. Report also sent
to CEH. Statistics: Total logged: 412. States: 37 & D.C. Provinces: 8, plus
Ottawa. N.Y. 90; countries, 18. RS: SX-110, ant: 40" loop & a 100' longwire N/S

36_{C. DAVID PALL} - 71 Hurlbutt Street - Wilton, Connecticut - 06897

Greetings from the home of the world's only carrier-current receiving antenna (I wish it worked that good, hi). Of late, no chance to DX until today, 1/13. I revised the antenna system so that I am not only using half of the town's power; ines, but two longwires also, one oriented N/S, the other E/W, plus a coil which eliminated many of the harmonic problems that I had (SW harmonics from 1200 on up without the coil). DXL 12/7- HJCY-810 R. Sutatenza, Bogota, @ 7pm w/ID u/WGY who un-modulated at just the right time. 12/13. I logged WWLE-1170 w/AI NX @ 1:59pm, puts in a good signal here. 1/13 saw the new super antenna and all-day DX. WPUT-1510 ID @ 2:30pm ID. WMMW-1470 an unn until today w/spots for downtown Meriden stores & ID-type jingle/announcer job. I also noted WAIK-1370 much stronger, WBAB also. WBEC-1420 noted w/rr @ 5:40mm whilst talking to Frank Waldron via landline, also WCOJ-1420 in w/ID & NX @ 6. 1/13 seems to be a rotten night - no Aurora, bad CX to West. Would you believe Mid-Winter Anomaly #2? New Tear's Resolution #1 - Bey a car. #2- But a good RX. A note to NTC '70 setter-uppers - a tour of WERA is a MUST, hi hi. And now. ladies & gentlemen, T. X. Thrush. 73 & the best for 1970 to all NRCers. (That's impossible, Cary - WERA does not exist! -ERC)

STEWART DRAKE - 2108 South Simpson Street - Philadelphia, Pennsylvania - 19142 The veries are coming in better than the new catches & I have now received a total of seven so far this year. V/ls from WCIR-1070 CHLC-580 in FF, but definitely a verie, KWPC-360, WLKE-1170, WCCR-1580, KRCB-1560 & KICX-1360. I had sent out several PP/cs & whether that prodded the stations or not I had the v/ls arrive in a few days. Has anyone heard from ZBVI in the way of a verie? The new DX heard was on 1/4- KICX-1360 r/c @ 1:47-2am. Then a possible KKAT-1430 N.M., I am not positive, as no IDs were noted, but they were listed as testing 2-2:30 on first Sunday & I had a definite TTer in there from 2:03 to 2:30 u/a couple others. Then on MM1/5 I was on 1500 & a voice broke in with "This is WDEE, Detroit, Mich. conducting frequency checks" & not one thing more as I stayed with it a while. Does anyone know if WJBK switched call letters? On 1/6 WAFT-1480 heard w/TT u/WDAS. This at 12:32-12:45am. Totals here now show 2,519/2,364 & I am now at 997 counties verified. I might state here too that I had word from Mrs. Frank Macolly that Frank suffered a stroke on New Year's Day. She did not say if it was a massive one, or mild, but I think the first as she did say Frank was paralysed on the right side. Anyone wishing to drop Frank a card can do so by addressing them to him at 102 S. Fifth Street, Quakertown, Pa. 18951. Frank is about 76 & I am sure a recovery will be a long slow process so I am sure cards would be welcome. That's it for now, good DX & 73 to all. (Frank is a prominent member of the MNRC -ERC)

STANWOOD R. MOPSS - Route 3 - Bradford, Massachusetts - 01830

1/13- WYSL caught topping WICK, TT, etc. on 1400 @ 4:45am, for first time since call change from WBNY. Fallout from Bruce Reynolds' article - for those who want to get good radio logs from the 20s, plus DX records, plus pictures of stations, Radio Digest was the one - have a real peak at radios history - many picked up by me from a dealer. Leroy Keyt, Box 208, Cleghorn, Ie 51014. Incidentally, a Ross Hansch is listed in the DX Records column - NRC's?

AMN EDMARD BRUCE REMIOLDS - Box 2637 - CMR2 - Sheppard AFB, Texas - 76311

Apparently another ANer to contend with - KERV-910
was heard ennouncing 24 hours on 1/10. Not noted MM 1/12, so hopefully off MMs
anyway. Heard total is up to 247, verie total at 1, w/a verie from CBK. DX:
MM 1/12- WSUI-910 s/off 12:30am (never noted at night back in Mo.), KFHO-910 @ 1
w/MX, CDM-94c (Province #5) c/MIXZ w/CBC NX @ 1:02, WJAG POP in the clear 1:5am
KFGO-790 c/off-SSB @ 1:30, WKEN-570 @ 1:40, CKY-580 @ 1:43, & KGHL-790 s/off IXcast @ 2 (state #32). KTHT-790 was still on @ 2, so they may be NSP now. Sorry
Jet, Raider, & Viking fans - but this was the Year of the Chief! 73 & good DX.
AND THIS IS THE YEAR OF THE GREATER N.Y.-N.J. NRC CONVENTION! SEPT. 4-5-6-7!

TEM DAVISSON - 207 Winchester Road - Apt. 105 - Akron, Ohio - 44313 Welcome to Akron's newest NRCer, Robert Ligon! 1/15- WZBN-1500 Till sees they'll TEST some time before Spring - will contact NRC, they say. DX: 1/7- WIBC-1340 Ind. topping channel briefly @ 5:33pm; WAUK-1510 Wis. @ 5:39pm c/u WLAC; WGTY-1000 Ala. @ 5:51pm in strong for a moment, then 10kw. WVOV (non-verifier so far) in Northern Ala. came blasting in. I was pleased to note rare CKSO-790 Sudbury, @ 6:09pm. 1/15- WCLU-1320 Ky. @ 6:59am w/much QRM; WHRV-990 Va. @ 7:50am w/WTIG underneath. Veries: v/1- WABJ WLBC (Six days!) v/f- KRCB WIL. v/q- WJWL (TEST barely heard - word for work ID, plus one song title), WMYC. Totals: 1,184/432. Richard Wood, or anyone: Has KIEO verified yet? Rich Richman: v/s for WFII is unreadable. They sent me recently a v/q, but be careful of their address - Chattanooga, not Lookout Mounmin. B. the way, former NRCer Dennis Waters (Fla.) is a DJ/E at WGOW-1150 Tenn, Chattanooga's newest rocker. NSP, I believe. It's amazing the things I can hear on 1300 u/o WERE (XR ten air miles N) but that's just a lot of talk. Hi! A letter from Jim Barry, v/c at KRDS, says KLIF will complete their 12-tower DA soon, so try to log KRDS s on if you don't have 'em - an easy new state. Reports must be CORRECT w/at least one IDable item. Good luck to those who want a WHHH verie. Even registered letters haven't produced a verie. I have a v/1 from WEEL because I drove to the station & had a hard time gettingthat. CM collectors (old or new) please write. I have many extras I'd like to unload.73. (As long as my name is on the envelope, Tim, it's OK - some have sent in Musings without that, and in a three-family house, it confuses the postmen -ERC)

RICH/RD RICHMAN - 14 Erst Cheshire Place - Staten Island, New York - 10301 540, a frequency that was rapidly becoming me favorite for DKing as 1969 went out, is proving to be just as good this year. MM1/5 brought me KNOE-540 La. for the first time, although nothing verifiable. But on 176, @ SSS, KNOE in very nicely w/mx, ads, IDs, etc., 6:15-6:26pm. Same afternoon found WMPS-580 Tenn. 6:01-6:11 w/mm, ads, & lots of talk about the bad WX (school closings, etc.) L&C. A Conn. catch that had long eluded me was netted 1/10. It was WATR-1320 logged w/much difficulty through WKAP/CKEC/WJAS, & who knows what else. C/w & Mutual NX heard 6:18-7:01pm. The top spot on the dial paid off again 1/12. Heard was WARO-540, Pa. for Pa. #65 heard. Ending of Voices of Americanism" ID, & ad heard, 4:57-5pm. v/q- CHIR WOR KRLD. v/1-CFRS WVCV. V/pennant- YNX, for Country #9 verified, & first pennant. Special thanks to Jerry Starr for the WHOT v/q, v/1, CM & SC. Two stations which I visited, but have neber mentioned in these pages are KATI-1400, & KCMJ-1010. KATI's studios are in the "back ard" of the Holiday Inn of Ca per, Wyo. where I stayed overnight in July *67. (I hope ERC will forgive me). (That's an UN-forgivable SIN, Rich!-ERC) Mr. Larry Wakefield, & the staff were very hospitable. I visited KCMJ in, August 1968 in 1000-plus WX. The afternoon LJ & I had a long & interesting talk between records, & during the CBS NX & Dimension features. He had worked previously at KLAM, & was on the air when the big 1964 earthquake struck up there. I'm curious to know if any c/w or MoR stations put out "Top 100" lists for 1969. WABC was off @ lam 1/14. 73s.

FRAMK W/IDRON - 65 Lakeridge Drive - Matawan, New Jersey - 07747

Correct my last sentence in the 1/10 Musing to "BBC-809 @ 1:28 w/WGY off." As for CNA, he can be logged on 940/740/1550 etc. at about 1:10 every night along w/his British counterpart, CSQ. DX: 1/4- A big surprise in hearing WKYX-570 u/WMCA null & o/u WKBN w/c/w, NX WX & s/off 12:50-1, SSB. CX were good to Midwest all /M. WDAN-1490 unn w/r/c-TT & loud, 1:58 ID mentioned Commercial Radio in Mo. Then WGSB-1480 II1. w/MoR song & s/off 1:58½, atop. KWK-1330 ID in mess 4:01 right after WBNX s/off, then rr oldies interrupted by an occasional jingle. MM 1/5- CHIC-580 formerly ignored, but now logged w/FF sports report & mx 12:12-12:20. 12:30, BBC-1088 quite good w/ID, unn. 12:31, KFAB-1110 w/IX, WBT off. An SS was looped. WSOK-1230 in/out w/R&B, s/off-SSB 1:02 poor. Unn WJBC-1230 good w/IX 1:01. CFPI-980 @ 2:16 mixed w/WONE/CKCM, w/WTPY off. 1/7- RAI-845 good w/II NX & mx 1:35-1:45. ORGF-863 @ 2:25 w/FF man, a lot stronger tham TEMO-860. WPAQ-740 very strong w/ET/OC/mx 3:20. 1/10-

KKJO-1550 copied for a r port 1:30-2 s/off. YETRA & MID both quite good, sometimes stronger than Cubans whenthey faded out, the Cubans, that is. No sign stil of CBU. M4 1/12- WF/B-390 poor w/s/off-SSB 1:01½ right after WIBG & WNOX s/offs, CBW looped. Weak KX-ME u/1200 Cuban @ 1:06, faded out & in faded AFRIS P.R., 1200. AFRIS faded in something like every 15 minutes, NX heard @ 2:01. No WJAG. V/1- WPAQ-740 WKIP-1450 CFLW-1370 WKAL-1450. v/q- WLTC-1370 CKBL-1250, a nice pic of TV XR site. v/f- KRCB-1560 CFPL-930. v/DX NEWS-WFYT-950, the only 40-page verie I've ever gotten. WLDB-1310 came through after a year w/v/r, form, v/q, 105 color booklet on Portland, SC, Bible promos, & decals. The ever-expanding totals are now at 1,063/154, 45/44, 10/10 & 31/20. The best of veried states include lowa 10/10, Cal. 7/7, La/ 10/9, Ariz. 4/4, Nr1d. 4/4, Ont. 54/46. 73, and chew that bubblegum, kiddies, and don't forget all that sugar, jam, & jelly on your jingle-jangle.

DICK CLARK - 4110 Bayview Drive - Fort Lauderdale, Florida - 33308

Hi. First I want to explain about living too close to WMSW's antenna & going up to WPIT. The last two reports were from my old Pittsburgh address & since Florida is my main home I didn't change it. Second, I've been doing a lot of travel from Pittsburgh to Florida. I'm trying to move everything down there. I guess I am one of the very few who lives in two cities. OK, ERC?

Second on LW question, didn't I real that you wanted LW reports if a lot of people wrote in? About three DX NEMSes back. (Not in THIS section, Dick -ERC)

Here's we report from Fla.: 1/12- 12:30 R. Jamaica-560 w/W0/M mulled, w/World

Tomorrov program, CBL-740 Toronto, WAMO-860 Pittsburgh testing @ jam very good,

R&B mx. CFRB-1010 Toronto weak @ 2am, CBW-990 Winnipeg also made it @ 2am, KIIF-

1190 weak: @ 2:30, WTAE-1250 Pittsburgh u/WDAE, must be a twin station, hi. XEDF-970 Mexico City w/lots of IDs @ 3am & of course WVSW was back of it. Gee, I think I'm still in Pittsburgh with all those northern stations. WFBM-1260 Indianaphlis testing @ 3:30, Reloj Nacional on 1250, WWDC-1260 @ 4am, Reloj Nacional on 1270 & last, HJCK-1160 Cienage, Colombia. That's it, there is no more. 73s.

JAY MURIEY - 1733 Candlestick - Newport Beach, California

Two new countries on successive MMs w/the cleanest TA reception ever in the middle, plus a Zedder reception for frosting made thix quite a DXing week! The first MM, 1/7, saw me sitting on 780 for three hours trying unsuccessfully for Black Rock. But it logged ZBVI @ 5:01, for a new B.V.I., & Cali, Colombia's R. El Pais (and the Cuban) for Fish's contest. Don Kenney called on Tuesday, reporting armchair quality on BBC-1214, & it was. When I pulled the earphones for the lam ID to let the wife & a friend listen. They comp; ained about the static & politely inquired whether it might be more listenable on SW! Attempts at logging the occasional phrases of a Latin language @ 1034 proved frustrating. I couldn't use the tape & couldn't get enough to firmly ID the Portuguese vs. SS (Nicaragua) vs/ strange form of French (Haiti). With the loop occupied, my ancient RX proved its budget characterisites by prohibiting a 1034 vs. 1035 logging. But MM 1/12 was the winner. Larry Godwin had called Don Kenney who called me reporting Tarawa on 844. (I called Don erickson, not daring to try Father Jack etc. in the wee small hours). Tarawa was solid armchair, giving rise of suspicion to a slight power increase, say from 50w. to 50kw. Another opening like that, & everybod; in the West can log Gilbert & Ellice Islands! Then a loggable 4YZ-720 Invercargill N.Z., best from AY2C to 4:29 1/12. Now to a domestic DX note: KO/'s Mick Schefbaach just mentioned they'll be going III effective 2/2. That moves Bill Barker's distinctive telephone talk show from 12-4 to 10-2. The giant of the Eastern Rockies will continue AN-6 w/their MM s/off. All you Dolly lovers will be pleased to know their after-midnight radio budget has been increased quite substantially for 1970, so I suspect the chorus or curses will grow this year. For instance, another 50km, clear that had better remain nameless is conemplating /#-0 w/HI. Their early c/offs have made their 10k range a favorite of IDXDers, but..! One note re KO, the new HI will not pre-empt any of their extensive Ham (ABA Rockets & college) coverage, for those using the sports pages for a DY guide.

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