



# DX News

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NUMBER 18

## Small but 1st Class!

The last issue of DX NEWS - dated February 8th - was mailed First Class to all domestic members; this is possible with all 16 pages because the weight is just less than one ounce and so both First and Third Class rates are the same. It was mailed late February 7th and hopefully cleared the Boston area before Sunday's crippling snowstorm which halted all transportation here in the Northeast. As I write this the a. m. of the 12th, much of this part of the country is still snowbound from the last storm and a second one is predicted for later today. If this present issue has arrived late it will have been due to unavoidable delays in production and/or delivery. Parts of Waltham where our printer is located have been without electrical power for more than a day now and this may interfere with production of this issue.

## EMBARGO

For more than a month now the East Coast dock strike has resulted in a complete termination of all mail flow through these ports; First Class copies of DX NEWS bound for Europe and the Caribbean are being returned stamped, "MAIL EMBARGO". Airmail is not affected. If your overseas bulletin or publications are overdue this is the reason. According to the Times, no settlement is yet in sight.

## LAST MINUTE SPECIAL...

KCKY-1150, 1 kw in Coolidge, Arizona will conduct a test for IRTA on Monday February 24th from 0200-0800 EST. Test arranged by Paul Lehot.

## Do Something

The NRC continues to gain new members now at an unprecedented rate. If you know of someone who might be interested in receiving a free sample bulletin of DX NEWS along with information about the NRC, just drop a card to Roy Moore, address on mailing page. And if you've got a few hours of spare time that you'd like to devote to the NRC and the DX Hobby, join our flourishing CTC!

SPECIALS

	kc/s		watts	A.M., E.S.T.	
Mon. Feb. 24	W A V O 1420	Avondale Estates, Georgia	1,000	1:00 - 1:30	NRC
	24 W R T A 1240	Altoona, Pennsylvania	1,000	2:00 - ????	NRC
	24 K O D L 1440	The Dalles, Oregon	1,000	3:00 - 5:00	NRC
Sun. Mar. 16	K F M L 1390	Denver, Colorado	5,000	4:15 - 4:45	NRC
Mon. Apr. 7	W A D E 1210	Wadesboro, North Carolina	1,000	1:00 - ????	NRC

TELETYPE LINKS

"The new DX NEWS is just wonderful!" - Len Kruse - 1675 Glen Oak St., Dubuque, Ia.

WITH NO MAIL AT ALL DELIVERED IN BROOKLYN TODAY, DEADLINE DATE, WE SUGGEST YOU LOOK ELSEWHERE IN THIS ISSUE FOR ANY POSSIBLE LATE TIPS WHICH, IF RECEIVED TUESDAY, WILL BE TELEPHONED TO ADMIRAL NELSON FOR INCLUSION IN THIS ISSUE.

WAVO - 1420

This TEST, originally set for Monday morning, February 3rd, did not come off as scheduled. It has been re-set for February 24th, also a Monday morning, from 1:00 to 1:30 a.m., E.S.T. This will be a test broadcast, with records and announcements. Reports go to Mr. James Dickson, Chief Engineer, WAVO, Box 111, Decatur, Ga. 30031. (This info via telephone from Chuck Hutton of Atlanta)

WREA - 1440

This Test will be jointly for the IBC and the IRCA, and will consist of tones, march music, and plenty of either voice or tone IDs. They'll be testing their daytime transmitter of 1,000 watts, non-directional. Mr. Charles Bloom, Chief Engineer, who will conduct this test, would appreciate phone calls during the test to: 814-943-6112 - but NO COLLECT CALLS. Address for your reports to Mr. Charles Bloom, C.E., Radio Station WREA - Penn Altoona, Altoona, Pennsylvania, 16603. KEN LYON.

KODL - 1440

This test, which will consist of tone tones and voice IDs, will run for about two hours, starting at midnight EST. Interference may come, in the West, from KRWI and/or KPUR, and in the East, from WJLB and WAAB, and maybe WQOK. Part of the test will be on non-directional, part on nighttime directional. The test may not begin promptly at 3:00 E.S.T. because they might not get on till 15 minutes or so after the hour. Reports go to Mr. Larry Shaw, Chief Engineer, Radio Station KODL - Box 741 - The Dalles, Oregon, 97058. Program is for NRC & IRCA. (Michael B. Northam)

DAVE DEWITT'S TEST ON 2/22

His phone: 201-671-0771. His address: 1111 Iler Drive, Middletown, New Jersey. By car, via Garden State Parkway, exit 114, turn left on Red Hill Road towards Middletown (if coming from North). Proceed 1/2 mile to Dwight Road; sharp right there and go 1 1/2 miles to Middletown Elementary School (abbreviated on sign as Mid-Left Road) to Iler Drive. Second home is 1111 Iler, with an elaborate TV antenna mast. By Route N.J. 35- Take Kings Highway East to Church Street; right turn across railroad tracks to Middletown Elementary School into Iler Drive. Date is Sat. Feb. 22, at noon, and on into the evening, or next morning if you wish. Why not be there?

Note: The NRC: KWTM-1400 on 2/17 was arranged by Kevin Slater; Salem, Ore

Too late for publication, we learned of an NRC ID by WGBH-1490, Coshoc, Wisconsin, on Friday, February 14th, 8:00-9:00 a.m., E.S.T. Their address is Ted Kruse, P.O. Box 2133 Bowen Street Road, Coshoc, Wisconsin, 54901. (John Tweedie, NRC) It did not appear in NRC's bulletin, either.

MUSINGS of the Members.

February 15, 1969

FRANK WALDRON Jr. - 65 Lakeridge Drive - Matawan, New Jersey - 07747  
DX: 1/24- I was surprised to find CKPR-580 in all alone @ 2:35, no sign of Cuba or CPRA. They came in w/a good signal between fades, & are by far my best Ont. MM 1/27- WKBO-1230 f/c-TT heard 1:24-1:30 s/off. WOR & WINS were both off, as they both were on 12/16. WINS seems to have monthly or bi-monthly SP. On 710 @ 3:30 I finally caught an ID from WGBS ETing w/OC/TT. Then @ 3:36, R. Barbados-780 concluding a cricket match; also an UNID EE u/CKAC-730, no doubt Trinidad. 1/29- No school, so- WHUN-1150 well on top 8:04-noon w/NX; WMCK-1360 8:19-8:35 well on top also w/MoR & Paul Harvey. AT SSS I am nearly positive I caught an ID from WPME-1540 @ 5:25pm, but that is later than they should have been on per SR/SS maps. Questioning report sent. 1/30- I hooked up the ferrite antenna to my house's electrical system, & wow! Signal strengths nearly doubled on some parts of the band. WINN-1240 Ky. @ 2:11 w/ad for Giant Maps, whatever they are. (They're big maps, Frank, hi -ERC) I also managed a half-decent report on KFJ-1330 for the first time on RS 3:08-3:15 at which time WHOT came in o/then. Veries have been very good. V/q- WVOK-690 for Nov., WBAY-1360 WDR-1586 & WVP0-840 plus v/l. v/l- WKWY-1340 KWLA-1530 plus CM, from early Dec., KWO-1410 for State #40, & WJPF-1400 stating r/c is third MM 1:40-1:50 w/TT. v/f- WFIF-1500 from Nov., WCPA-1100 CHEN-940 & WCRO-1230 plus separate CM etc. from my DJ-uncle. v/c- WARK-1490. Overall totals, 794/435 41/40 9/9 22/11. CHER v/f is for DXers who receive them in Europe, since they are seldom heard anywhere else. A couple of Musings ago I stated hearing R. Veronica on 1/15. I now realize it was the Swins, not Veronica. That's what I get for not getting a definite ID. 73.

JOHN JAVETSKI - 104-21 122 Street - Richmond Hill, New York - 11419  
Hi. Not much heard here in the last week except unid & unkn, hi, although a few new ones were had. On 1/24, local WNEW-1130 was off, so WJLN Win. was heard u/WCAR @ 12:55am. Unk center on 740 that AM w/rr 1:15 & only v/l-2 here. PM, log taken on 740-345 from 7:40 to 8:10 w/good signal. Also a log on Belize while local WNYC was on @ 8:12. I crudely measured 'em w/BFO an 840-130. 1/25 AM- Unk TTR on 900 @ 1:40. WJLB-1200 leading w/TT/rr @ 1:50. Log on KIOA-940 2:2-10. Finally, enough for a report. KOA-100 through the mess @ 2:31. 1/26 AM WJLN-1300 Va. on w/f/c-mx 1-1:15 plus Unk 330-1474 @ 2:06, who might this be? MM 1/27, WJLN-1460 Mich. s/off-330 @ 1:00; WJLN-1190 Pa. had TT 12:10-12:15 & only 1:00-1:05 heard first time this year @ 1:05 w/WJLN-1010 on & u/KDKA's OC. Log on 3:0 plus KN0E-540 12:25-12:45 w/rr. WJLN-1010 off by 12:40. WOR-710 also off, but nothing there but XEMP Mexico w/10 @ 1am. Also, WGBS Fla. testing @ 1:45. WJLN-1300 Fla. w/DT on f/c w/phonetic ID 1 & 2. KNX-1070 reported as WFLI was off on leading most of the AM. KNX 3-5, or better. KKEY-690 r/c very weak @ 2:07. WJLN-1190 and ing ET (?) @ 3:0. 1/29 PM- I cranked up the loop again & logged WJLN-1460 Mich. 4:20-4:42 w/rr w/WAAB non-identical. Log on WSYB-1380 Vt. @ 4:45 w/letter on. Then WQXR-1560 was null'd partially by log on WJMD Md. @ 5 NX. And my loop had even an altazimuth! 1/30 AM- WJLN-940 r/c 1:18 to past 1:30. WRNC-1340 @ 1:40. 1/31- WPIW-1460 Va. s/off @ 11:50pm. Maybe they're not even AN-47. On 2/1 WJLN-1300 1:53 NX. Hockey on 1200 (Baltimore vs. Kings) was only WERI. 2/1 AM- M. 1:00 station in WJLN-1460 Mich. on f/c 1-1:15. This is listed at 2:15-2:30 in the list, so better change it. Veries in arc v/l from WMOC, v/f from WMOC, & v/q from WJLN-1300 WKRC WPUV & RNE-1223. Totals now 1,000/269. Oh yes, no sign of WRIA 1400 TTR here on 2/1. See ya next TX. 73.

RONALD J. MUSCO - 16 Chestnut Drive - Windsor, Connecticut - 06091  
Big news here is the 4 1/2' box loop I built per NRC plans. It didn't impress the wife though; it impresses me though. Gain is good but I haven't (yet)

February 15, 1969

(Ron Musco) quite figured out the null characteristics. I haven't fooled w/it enough yet. v/1, v/q & CM from friendly WHMP-1400. DX: 2/3- I overslept WAVO. I tried for WWGP-1050 but XEG strong & CHUM prevalent & WHN testing. This between 3:15-3:45. I checked 790 @ 4, but WQXI Atlanta w/WX & rr. Also some foreign DX, see Foxy's column. 73s for now. Keep up the good work, Ernie! 73.

CLIFF RENO - 75 Parish Road - New Canaan, Connecticut - 06840

Hi all! DX fine since last report. 1/23- HIDV-1200 XERCN-1110 XEX-730 YVLL-670 CMQ-640 WMHQ-630 SRS-725. I already have these DXes but I wanted to record the IDs for my "DX Tape Library." Also on 1/23 CBOF-1250 WMCK-1360 WSAY-1370. ERC, I have a friend who claims to have picked up KEK-1190 from New Canaan on MM 1/12. Do you think it is possible? (It'd be possible on a GREAT MM w/a GREAT RX & a GREAT antenna -ERC) 1/24, not much, just WPGC-1580. 1/25, DX improved, w/new state KAAV-1090 when WBAL was fairly quiet. Only veries: WIPS-1250 (local from Ticonderoga, NY, first heard from in Summer) v/q. Totals calculated from 1968: 200 heard, 56 confirmed, 14 countries heard, three confirmed, 30 states heard, 18 confirmed. Farthest stations- West, KNX & KFI. East- WHEB. South, SRS, North, CBT. Verie return, 49 out of 73 sent. I hope 1969 will be better for veries. Does anyone know if WPTP-1540 verification on MM 1/27, CMKP-670 w/rr. If you need Barbados, MM 1/27 was when to get it! They had a cricket gam or something in which the West Indies was playing. At one time R. Barbados-780 covered 770-780-790! On 1/28 I got a letter from them in which they verified my previous reception. They are in the process of having v/q's made up & said they'd send me one. Other veries 1/27- WWIP (local) VOA. Oh yes, on MM 1/27 I also got HJW-1460 WNC-1088. Well, so long, 73 & good DX. Somebody write me - I'll write back! More DX: KNOT-670 (new state) WHCU-870 WYNS-1150 WNDR-1260 WERN-1130 (another new state) WYUC-1480 WVAR-1550 XEHH-1500. Veries: v/q- WSPR-1370 WJL-1150 WJAL-1090 WJW-700 WJA-1070 (new QTH). v/1, R. Barbados (#2). MM XEG-1050 CMQ-640 WPTP-1540 (don't that stand for 'Radio Jamaica Radio'! I sent letters to CMQ, WPTP & XEG. I also sent tape (w/letter in it) copied from New Member Kit- thanks, Edith!) to HJW-1460. Only WJW airmail! I received a letter from KSL-1100 on the 21st but no tests lined up for the near future. On 1/29 I tuned in what I think was WJEM-740 on test, but I'm not sure. According to late Dec. issue of DX NEWS, WJEM was to have gone off the air as of 12/31/68. I have noticed them on several times since - did FCC renew their license? If all goes as planned, I'll be going to Europe this Summer. I hope the Sept. '69 issue is ready for my "Summer Portables". Well, so long, 73. Peace!

MARC DeLORENZO - 35 Sylvan Hill - Hyannis, Massachusetts - 02601

Veries: WPTP-1540 WJAL-1090 KIRL-1460 leaving WAAO-1530 only hold-out this year. DX: 1/6- WHMP-1400 c. s/off 12:02, WFTC-960 NC r/c-TT 12:09-12:19 s/off. HJ??-540 w/Caracol ID 1:09. 1/19- XET-990 i/WIBG @ 2:15, CJGX-940 Sask. 2:19-2:44 w/rr. 1/26- WDEA-1200 c. s/off 1:05, HJAP-1420 R. Bahia w/local & Caracol IDs @ 1:09 w/WBSM off MM. MM 1/27- HJRC-1090 w/Caracol ID @ 12:07 o/another SS, s/off-1260 12:31 w/SSB, when WJW-700 Ga. s/off 12:58, HJJW-1460 "Desde le Bogota, Capital de Colombia" @ 1:09, WJW-700 Fla. f/c-DT ID 1:26, KHEY-690 Tex. r/c-TT weak to fair u/Cuban 2:09-2:10 plus, w/ID's every 2-3 minutes for my most-wanted r/c. WOR-710 noted off @ 2:24-2:25 on low hum audible. 1/30 PM- WOSC-1300 NY I&C 4:40-4:52 o/WEEE w/light rr, new WJW-700 NY "The Voice of Seneca County" @ 5pm s/off, WBZY-1140 Pa. o/WVVA @ 5:14 a.m. This station is listed incorrectly as 1100k in VJ-5. CFTJ-1110 Ont. clear @ 5:14 a.m. s/off u/WBT, only 250w! 2/1- WBRE-1340 Pa. well atop mess @ 12:11 s/off-RRB. WJW-700 Tenn. PoP w/TT & OC 12:23-12:41-plus, WSHN-1550 Mich. r/c-TT 1:15, WJW-700 NY r/c w/ 1:10-1:30 s/off, WSEW-1240 Pa. I&C w/NX @ 2. 2/3- No go on WAVO-1050 but only WHK/WBSM/HJAP. For that matter no luck w/CPSL or WWGP-1050 TEST either. WJW-700 NY test ID 1:17- nothing else heard, so OC only. HJFV-1040 all alone = (Caracol) 1:40-1:50, WFUN-790 Fla. atop w/rr 1:53, & finally, KEL-1260 R. Capital of ... 2:4. Total heard, 1,123. Best. AS THEY SAY IN McMINNVILLE, TENN., "KMC" - "KEEP MUSINGS COMING, MEN!"

February 15, 1969

PAUL K. HART - 2105 Muse - Fort Worth, Texas - 76112

As a result of correspondence w/Gordon Nelson & other factors, it looks like I may become an active DXer. Having never Mused before, some introduction may be in order. I am 31 years old, married, two children & a lukewarm BCB DX fan from way back. I am Technical Manager of Communication Apparatus Company in Keller, Texas. We recently moved down from Glen Ellyn, a town in west suburban Chicago. I use a rebuilt SX-28 & a home-brew loop I built in Chicago to be able to hear Jean Shepard on MOR. I needed it - I was only four miles from WGN. I am a tape fan, all of my claims are on tape. In order to claim a station, I must have the call & either the frequency or location (preferably both) clearly on the tape. I do not write for verifications. I do not stay up past lam; I play back tapes in the morning. As part of my job, I must travel now & then. Last trip was to Burlington, Mass. & I jawed w/GPN on the phone about two hours about patterns, the NRC, etc. I got in the night of 1/30, & fired up my GR-34 first thing in the Howard Johnson Motel, & observed the splatter from WKKO that all you Mass. boys love so. Surprise came next morning when I found myself right on top of WKKO's array! It was so rainy & foggy the previous night I drove right by without seeing the towers. I hope the general membership of the NRC appreciate the efforts of the NPC & the guys who have sacrificed so much for all of this to continue. The NRC is embarking on a new era, & I hope to contribute if I can. Whatever comes, the people who saved the NRC ship deserve a salute & deep thanks from all who are serious about their BCB DX hobby. (Welcome to Musings, Paul, & to the NRC! Thanks for kind words! -ERIC)

MARV GARBNER - 2539 Kessler Boulevard - Lincoln, Nebraska - 68502

Would you believe I've been a member of the NRC for eight months & this is my first Musing? Shame on me! Let me now introduce myself. I'm 18 & am attending my second semester at the U. of Nebr. I've been DXing since 1/67 w/a Halli-crafter SX-88, a CB antenna & a 2' NRC Loop which I got from Fish. First verie was from CBK. I got interested in BCB DX from S-9 magazine's writeup on BCB in 12/66. Well now, down to my meager DX. 1/3- WKAR-870 u/WNL @ 5:15pm; KRAC-1140 weak u/KSIC & WJVA @ 7pm. 1/19- KEEN-1370 w/WSPD looped @ 2:30am; CJCA-930 o/WKY @ 3; WJAL-1320 o/KXYZ/WJIS @ 3:15; WTIW-690 w/rr & XETRA looped @ 3:30. MM 1/20- KAGO-1150 Ore. #1 o/CKOC/CKI @ 1:45; KMP-920 s/off @ 2; KQEO-920 s/off @ 2, KXLY-940 s/off @ 2; KENO-1460 s/off @ 2; KIKO-1380 all alone w/rr @ 3:10; KJR-950 alone w/rr after KIMN s/off @ 4. 1/25- What I believe to be TAs were in- ORTF-1554 Nice, weak w/rr @ 1:15am. UNID TA @ 1:39, weak audio; WDR-1586 in good w/many deep fades w/pollen & instrumental mx. MM 1/27- WTRG-695 Dominica AN w/cricket, along w/Trinidad-780, JWC-740, RIR-770, Barbados-780 & Montserrat-889, all w/good signals. I hope many NRCers heard the recent KECK-1530 TEST. Fish & I worked on the tape three hours on no test. 1/10. A call to CK Joe Moell today 1/30, who told me they got between 5:00 repeats plus three (3) and GET THIS! - from NEW ZEALAND! Needless to say Joe, Fish, & I were very pleased at the response of this TEST! Thanks to all NRCers! Recent veries: KAGO State 39, KPFL KEEN KRAC KQMS WJAL CICA WJNS WKAR KGHK KCPX WPTP (1000 W) WJAP KVSH WTIW WKKE CFCN. I have 246 veries from 39 states, six provinces & eight countries. Total heard around 800. I wish there were more NRCers around here! All of them seem to be on the BC! Oh well, that's it for now. 73. (Welcome to Monty, Marv - perhaps the KECK TEST will unearth some near-by DXers for NRC! ERIC)

ROY H. MILLAR - Box 851 - Everett, Washington - 98201

New logging in January from this "Snowbound outpost of the Booth West wilderness": 1/6- KLYQ-980 Hamilton Mont. f/c 3:30-3:45am through muted CBK. 1/14- KQYN-1210 Guyton, Okla. s/off @ 12. 1/20- KECK-1530 Lincoln ID on TEST from KFBK s/off until tuneout @ 4:30. 1/25- KBFV-930 Bellingham, Wash. ID 1:04pm for new call. 1/29- CBXQ-540 Ucluellet, BC w/CFU/IPW s/off @ 4:04am (started operation 1/3/69, location is just N of duc W from Duncan, BC on the WC of Vancouver Is. I just S of that beautiful vacation spot at Wickaninnish Beach Park. Vacation photo New Year's: CFKC-1340 "Mayak"-Russia-1570 KLYQ-980 KRDR-1230 KUAI-740 (1:10) Note a couple more graveyarders added. 73.

February 15, 1969

LEN KRUSE - 1675 Glen Oak Street - Dubuque, Iowa - 52001

The new DX NEWS is just wonderful! Congratulations to Admiral Nelson & his staff in their excellent job in making this 'magazine' format just ideal from a DXer's standpoint. And a big THANK YOU to Ernie Cooper in continuing to do such a fine job with "Musings of the Members." I'm real glad Jerry Starr is getting the NRCCourtesy Programs Committee organized, & under his good leadership, I feel we can expect some fine DX Specials. Speaking of DXes, I enjoyed the two hour TEST from KECK-1530 Lincoln on 1/20 in which my good friend Dave Fischer did the frequent voice announcements; glad to add this one to my DX Log. Among other recent loggings included these: WRMG-1430 Red Bay, Ala. on their first MM r/c; WPTL-920 Canton, NC on its early SM sked, logged @ 6:30am, but possibly on the air before that time. New loggings during late afternoon DX have been especially good w/the use of my Loop Antenna. The latest additions to my DX Log included: KAFE-810 Santa Fe; KDRY-1110 Alamo Heights, Tex.; KZIA-1580, Albuquerque, WCVL-1550 Crawfordville, Ind.; KQXI-1550 Arvada, Col.; KHAD-1190 DeSoto, Mo.; KOSG-1500 Pawhuska, Okla.; WVOV-1000 Huntsville, Ala. The most recent verifications added to my collection included these: WPPL KDRY WVOJ WCVL KQXI KOSG KAFE WCOX. This brings my total to 3,972. The very first time I received an airmail-special delivery v/l came recently from KDRY, Alamo Heights, Tex. who were so delighted with my report of reception during their RS from 5-5:30pm, (THX). (Thanks, Len! -ERC)

MARTIN BLUMENTHAL- 10 Outler Street - Worcester, Massachusetts - 01604

Not too much to report since last Muse, as CX have taken somewhat of a nosedive. 1/26- UnID TT-1200 5:00-5:30am, unID rr-1250 u/WDVA @ 5:32am. WAVE-970 atop @ 5:47am. UnID s/on w/01810 u/WVNR-620 @ 6am. 1/27 brought a new country in Algeria-890 @ 1:37am. WKAR-1100 PR o/all @ 2:40am. 1/30- WPRW-1460 atop @ 5:02pm. WKDE-1000 dominating @ 5:11pm. Incidentally, they have the wildest s/off announcement I've ever heard. WWHF-1050 very weak u/WBN-1050 @ 5:20pm. WBNB-1000 in @ 5:30pm. Confusing situation on 1450 on 2/1: Apparently two testers @ 12:30am, one a TT, the other w/mx. I thought I got an ID for WFCM. By 1 there was only one there, WKYE w/an apparent PoP. MM 1/1 a bust - no sign of WAWO DX, just WHK/WBSM. WMEX-1510 ET @ 1:32. "Wonderful" XEUN blaring in @ 1:50am. CKIM off? WEOK-1390 apparently ending an ET @ 1:55. WWHF-1410 r/c w/ID @ 2:15. I have a question: Who on 860 s/off @ 2am? Cl mx noted here 1/31 from 1:15am & on covering KCNO, gone by 2, CBH? (\$10 says XEUN w/cl mx @ 2am s/off -ERC) Veries: WDVA WJML WCBL Portugal-755 WBCI WTEL WCOX WHIO WMAP WKIN WBAI. Hopefully more next time. 73s.

KEN LYON - 5155 South Newstead - Albany, New York - 14001

No luck on the CIVI DX, only CIML. 1/27- WLDY-1340 @ 1:52-2 r/c-TT, WFMH-1460 2:03-2:31am on, ET/TT was very strong. At first I thought it was WHEC. KHEY-690 @ 2:08-2:14am w/r/c-TT u/a strong sig. 2/1- WSSA-1570 @ 12:07-12:29am on w/NRC TEST, QRM from XERF/CKIM. WLAB-1410 1:08-1:15am ET/TT/mx, WKDO-1560 @ 4:23-4:30 r/c-TT, a very strong signal from 1:08, WMP-960 @ 4:33-4:46am r/c-TT, QRM from CKWS, WHIS-1440 @ 5:32-5:45am w/TT not on list. Recent veries include: WQVA WREO -TEST WDEC & WWJC. WAWO & WWHF had like good bets here. C U later.

STAN MORSS - Route 3 - Bradford, Massachusetts - 01830

1/28- R. Capital-1410 at 9:30pm, Costa Rica? using pop tunes. 1/29- WBS-535 St. Georgen in port well to 10:20 s/off for a report for one long-passed-by. 1/30- Report to YHWA-1410 for lack of anything else. 2/1- Strassbourg-1160 in clear, 5pm, w/no WHTB on a/b for a new one. Veries, WCOX WBCI. 2/3- WQBA-1140 Miami to 6:15 pattern change. Ad in Broadcasting for International Radio Club for ECB & SWIS & QSL collected to blind box number.

D. CITRON - 4301 Jefferson Blvd - Hollywood, Florida - 33021

Hi everyone! Sorry I haven't Mused but I only had time to DX once since September. MM 12/23 during w/01810, logged from 2-7am, then got sick & stayed (P7)

February 15, 1969

(D. Citron) in bed till school resumed. Then exams two weeks later, the last of which was 1/22. Second semester started 1/23 (no break). Now here's my DX from MM 12/23: WHAM-1180 Rochester; WCOA-1370 Pensacola; WOR-710 NYC; WDEL-1150 Wilmington, Del. WCOA & WOR had been received earlier but not logged. These stations bring my total to 126. I also logged a bunch of s/ons that morn, if they're of any use now: 4:59, WDEL w/SSB; 5:16 WNOE; 5:24 WGBS w/SSB after "Daily Bread"; 5:31 WTOP w/SSB; WINZ @ 6, WSRF @ 7; WIXX w/"Good Morning" sung. I was in Boca Raton yesterday morn & at 8 I got WLIZ Lake Worth. Boca Raton is about half way between Hollywood and Lake Worth, ID @ 8, "WLIZ, serving the Palm Beach Area from Lake Worth." NX was next. I got my report card this week. I got As on four exams & a B & a C on the other two. The subjects, respectively: Trig, Physics, Math, Analysis & Chemistry, w/the B in English & C in History. Well, that must be 30, so 73. I owe letters to a log of people, & hope to resume writing soon if I can. 73.

ISAAC EAVES - 10113 Pillot Street - Houston, Texas - 77029

The "new" DX Magazine is far beyond my expectations, one that each of us can take special pride in. Thanks to everyone who has made it so. DX: R. Belize s/on @ 6 12/9 w/GSQ followed by BBC Relay w/World NX S-7. 12/17- KARK-920 s/on @ 6, supposed to be AN-6; KNIN-990 Tex. IDing @ 6:42 as "Mrg 99". MM 12/23- KLVI-560 Tex. off MM, listed off SM on Cx of Freq.; XEOC-560 R. Chapultepec 2:30-2:50; 560 unID w/Saul mx "Radio Now", WX @ 3; KOKE-1370 Tex. TEST @ 3:04 w/mx & frequent IDs repeated twice- "Eyes of Texas" @ 3:06 followed by U. of Texas fight song; WACE-730 TEST blotted out by WGN; WLAC-1510 ETing & ID @ 3:21; XNVOZ-1590 R. Voz ID @ 4:10; 1600 unID ETing 4-4:15 tuneout; KIRL-1460 Mo. ID @ 4:22 as "Curl, Big 1460" announced as ET, not on list; KILE-1400 Tex. @ 4:41 w/two DJN & MoR mx, SID & TC. Isn't this AN now? WSMB-1350 La. @ 5, must be NSP. MM 12/30- KOIL-1290 Neb. @ 2:22 w/song by Banana Splits; KXOL-1360 Tex. @ 3:40; WING-1410 O. w/77 SC song @ 3:55. 1/2- TIRICA-625 ID @ 11:04pm as La Voz de la Victor, 33 guitar mx. 1/3- WNBC0660 NYC ID @ 6:33 before WESC s/on w/singing SSB. 1/12- TGW-1410 11:39-1, S-4, high class SS mx w/CMQ looped. MM 1/13- KIMS-1480 DX crowned out by R. Florida; WIAZ-1330 TEST, too much KFH; WCKY-1530 ET & ID @ 3:15; WRTH-590 Ill. booming in w/good signal @ 3:57; HJHJ-600 in 4:15-4:20 w/unstable signal; CMKJ-740 ID @ 4:30 as R. Liberacion; Ponaire-800 S-3 @ 4:30; HRVS-910 @ probable s/on @ 5:09; "Bata en R. Catolica." 1/17- KCAW-1510 Port Arthur, Tex. new unlisted station - John Blankenship Show, 12:30-lpm, frequent IDs w/frequency & power of 1,000w, c/w, the top round w/Nashville mx. Best DX to all.

RANDY SEAVER - 1071 Turquoise Street - San Diego, California - 92109

It's been some time since I've Mused, & I would like to be a bit brash & make a constructive suggestion on the "new" club's (that's DX) format. I find the offset format very attractive, but I can't help feeling that much vital DX (and that's what we're after, isn't it?) information is being lost amongst the extraneous material. To be specific, I find it very difficult to extract my desirable DX information from Musings. I'm sure many others do too. An a packed document DX Digest, perhaps two sections (East & West) would provide a concise panorama of DX availability, rather than having to literally wade through 30 pages of Musings to garner 10-20 tips that are usable. Musings could then be devoted to accounts of a more general interest - there does seem to be a constant wealth of pertinent subjects available for discussion. On another subject - It took a little while but the merger was the catalyst that made DX NEWS a magazine, so I guess some good came of the proposal. However, I've often wondered how the merger proposal would have fared if the proponents could have offered an offset publishing scheme? What the idea would have been for a club with 500 members & 40 page bulletin? How would it compare to current NRC rates? 73. (The format suggested by Randy is what I'd like to see.)

PLEASE REMEMBER THAT MUSINGS IS YOUR SECTION - LET'S HAVE YOUR DX INTEREST! LIST THE TIME/DATE OF ALL YOUR CATCHES - by date - SO THEY WILL BE OF SOME USE TO OTHERS. BE SURE TO DOUBLE SPACE, & STICK TO 30 LINES OR LESS. DEADLINE EVERY MONDAY.

February 15, 1969

DON KASKEY - Hotel El Rancho - Box 235 - West Sacramento, California - 95691

Recent veries from KIRL-1460 KATL-1340 & KMTH-920 v/1s, CFSL-1190 and KUAI-720 v/qs. KMTH, Midway Island verified w/two page letter 118 days after report sent w/no f/up. They sent program skeds & booklet on "The Pacific's Most Beautiful Isle" but no mention anywhere of their current power output. Since the island is only three square miles it is probably still 250w. as it was on 900. January must be a bad month as 38 reports were mailed during the month, & as of 2/4 only 13 have answered & all but a couple have been out at least two weeks. It looks like I devoted a lot of wasted time typing out DX reports & blew \$1.50. Poor House, here I come. MM 2/3 I drew another complete blank on DX TESTs. The only one within reach, KBRV-790, obviously did not show up as I even heard WMC in there, & to add to the nonsense KGHJ signed their carrier on @ 4:01 for an ET. It also seemed that 95% of the AN-6-ers were ETing that AM. Another joyful thought, KCRA-1320 began ANing it this week, so if I don't feel like sleeping around 3am, I can be even more selective & make a choice between KFEK KXOA KCRA KROY & KRAK. All I need now is for KCMS to start ANing & I'll sell my radio. Sweet dreams to all. (KCMS used to be AN-ERC)

MICHAEL B. NORTHAM - Box 605 - Beaverton, Oregon - 97005

Greetings group. WX continues bad here - worst Winter since 1890s, w/another 24" of snow since my last report. Now about 500% of normal yearly snowfall, & it's only the beginning of the second month of the year, hi. Veries in: v/q- KCBS KGO. v/1- KERN CKKC KODI KROY. v/c (NOT prepared cards, hi) CFRN KHQ. January totals were 24/18 (probably still more to come in). Dec.: 23/17; Nov. 15/15, Oct. 4/4; Sept. 11/8, so a pretty successful season thus far. Totals are now 677/276; states 42/39, provinces 6/6; countries 25/13. I hope to see many of you at the gigantic ERBA Bash in Sacramento 2/18-16. SJB will definitely be there. 73& DX.

JOHN SAMPSON - 4148 Wycliff Drive - Winston-Salem, North Carolina - 27106

More DX. 1/21- WIVR-1300 Belleville, Ill. 9:30pm w/BKB game. 1/22- WCEC-810 Rocky Mount, NC @ 7:15am u/on, noon covered by semi-local WKBC though. 1/23- WVOW-1290 Logan, W.Va. in well @ 9am; CHOW-1470 for a surprise @ 9:45pm, and WKSR-1420 Pulaski, Tenn. @ 10:45pm. 1/24- WTLN-1520 Apopka, Fla. very weak @ 7:15 s/on & soon covered by WTGR. 2/1- WWSA TEST in very well, daytime reception for WJJJ-1260 Christiansburg, Va. u/WGWR, WMNC-1430 Morgantown, NC, WPYB-1130 Benson, NC, WRKB-1460 Kannapolis, NC & WMVA-1450 Martinsville, Va. WLOE-1490, Eden, NC, only 40 miles away, but very hard to hear due to WSTP QRM. 2/3- WHIH-1400 on AN, Soul-type show, & WQSN-1450 on their AN show. Veries lately include WIMR WELS WTWB WIBV WVOW CHOW WKSR & on f/up, WNCN WDAF WCHL & WINC. Percent return is about 70%. I also heard a station announcing on WMMO-1450 (although their frequency was more like 1417) in Winston-Salem, but no other IDing info. They were only heard an hour or so on SM & then disappeared (I suspect). Calls to several local schools to see if they had such an operation provided nothing except that Wake Forest has WFDD operating on 650k. They said this never gets off campus, so it gives me something else to try for, hi. 73.

BILL CHEATHAM - 6900 Westmoreland Blvd - Falls Church, Virginia - 22042

A few items of DX. 1/21- WJMG-860 Laurens, SC @ 5:45 s/off. Also 2/4- WGBS-710 Miami @ 6pm u/WOR, Miami's first station on 710 other than WOR. Totals 653/238. A few interesting notes on daytime reception: I've got a spur of WPIK-730 on 830. Can anybody figure that one out? Also I succeeded in catching WLVA-590 Lynchburg during the day. WNCN coming in clearly at noon thr same day. All I have to say about the new bulletin board is that it's excellent! I have some SCs and a few Top 100s, please write.

RUSS EDMUNDS - Box 291 - Hawthorne, New Jersey - 07507

Hi there, folk (to me from Laugh-In). Not much DX to talk about. However, I have logged WJMG-860 on one of my unIDs of previous. I note that while RK thinks my 1310 BKD connection was CFGM because CKOY is c/w, I seem (P9)

February 15, 1969

(Russ Edmunds) to remember CFGM is also c/w. Lo, a problem arises. Frank Waldron, WRC will verie. I believe CKEY's v/s is Wm. R. Onn. Wayne Heinen, WFGP veries, WIKI hasn't. Stan Morss, WBSC-1550 is a U. Must have been a power change @ 5:45, not a s/off. Also: Uncle Sam decided I wouldn't look good in olive drab, hi, so it d indeed look like I'll be here for a while. Fred Nordquist, did you log WPAW's spur on 540 yet? I will be at Dave Roys' place, though only for the afternoon, as I can't quite tear myself away from the usual Saturday night vices, hi. I hope to get my RK back by 2/10 for the DXes then. Next step is an antenna - GPN, any news on that? Meager (?) DX 2/4: 9:25, VOA-1180 Marathon in o/u WHAM; 9:45, WJMA-1250, Charleston, SC in w/no sign of WFAE, & on through evening; WICH-1310 o/u unid WJLK @ 10:05; 10:10, WKAT-1360 w/"Talk of Miami" on top briefly; & 10:17, WSTC-1400 w/ID after break from AI NX about 10:12. Also logged unid WFAS-1230 & WGBB-1240. 2/5 AM, I noted WLIK-540 almost equal to WMCA-570. Only about a half hour of daytime DX yet, so nothing great. 73s.

FRED NORDQUIST - 104G Kings Park Drive - Liverpool, New York - 13088

BCB CX went from excellent to poor between 1/24 & 2/4, as Auroral CX depressed signals in Feb. My first European DX ever, came on 1/25 & 1/26, with Nice-1554 1:02am, West Germany-1586 @ 12:05am, & England - 1214 1:10am. UnIDs on 1465A 765A 931A & 1475A. Reports out to: WSSA-TEST & WJAB ET. Here is DX capsule: 1/24- WRYM-840 Conn. w/sports 2:14pm. 1/28- WCHS-580 W.Va. PKB @ 9:10pm. 1/30- WLIK-980 Pa. rr 8:38pm. 1/31- WTVR-1380 Va. ID 12:38am, WHOF-1330 O. sports 12:41 am, CFAM-1290 Man. 12:45am, CKMP-1230 Ont. c/w 9:20pm, WJMT-1400 Pa. w/SID 9:50pm, WFGP-1450 NJ WX 10:05pm, WDOV-1410 Del. MoR @ 11:40pm, WLAQ-1410 Ga. SID @ 11:43. 2/1- WSSA-1570 Ga. heard u/XERF/CKIM QRM w/TT, IDs & weird signals 12:02-12:30am. WJAB-1440 Me. ET 1:07-1:10am w/TT & some c/w. WAIT/WGOU-1300 5:20pm, KUOM-770 NX 6:13pm w/s/off @ 6:44. 2/3- Pierce Aurora cut all DX except locals. WRKO-680 Mass. WX 7:46pm, WSOQ-1220 NY noted w/OC AN - they must have forgotten to throw carrier switch at s/off on 2/3. WAMO-860 Pa. noted ET/mx 1:39-1:50 blackout, CKNY-590 Ont. NX 2:06am. 4VEH-1035 Haiti religious mx w/no filter 9:35pm, WLFH-1430 NY 9:20pm. No TESTs heard MM due to poor CX - I don't recall having that much trouble w/Aurora down in NM- good chance to log SSers, however. (I didn't know religious mx was usually filtered, Norm! -ERC)

DOUG MEYER - 523 East State Street - Ithaca, New York - 14850

Before another term got too far advanced, I figured I'd better get in a few good shifts of DXing. Here's what happened- 2/4- 2:55pm, WJAM-1400 Miami, w/"Non-Stop Mx"; 3:15 R. Libertad-600 Barranquilla, Colombia; 4:35 WJHD Spartanburg, SC, 3:45 WNNI-920 Columbus, O. Roger Miller Show (the one who reports in Bill Board program Aids) c/w. 2/3- 1am, CKFH-1430 Toronto, 18 records in a row; 1:05 (in FIVE minutes, Doug? -ERC) 1:05 Peloj Nacional, Cruces-1210 NX w/TT every minute, round of clock in background. 2:10, R. Libertad again. 2:33 XERF, Conn. B. Gomez Int-1010 Santo Domingo. 2/6- WBOP-980 Pensacola, 6:23am c/w & lots of commercial for farm products. No luck on any of the four TESTs this MM thanks to WJMG-860, lots of other factors. Well, to quote the great Cornell Philosopher, Martin Luther, "You shouldn't go to sleep- you crazy listenin' to some squeaky radio ya nut!"

JOHN T. TWEEDIE - Box 103 - Oakhurst, New Jersey - 07754

Nothing much here except a log on WKYE-1430 on 1/31/69. I received 1:15am using 1,000 cycle TT. I took ERC's cue & sent them a 1417 on 1/31/69. I received a reply from them on a previous report, about four years ago. I also received from them promptly. I received a v/1 from WCIR-1060 for my report of 1/1/69. I noted very strong TT on top of WNEW @ 12:26am 2/1. After half an hour of listening gave up. I wonder who they were? WACE-730 received 64 reports from 23 stations and Ontario on their NNRC TEST. Many NRC DXers' names noted on the list of stations were happy they were able to log a new station. Best DX to all.

ST. LOUIS IS THE PLACE THIS YEAR FOR NRC'S ANNUAL CONVENTION. 10:00:00 1/15/69



February 15, 1969

CHRIS IUCAS - 89 Round Hill Road - Fairfield, Connecticut - 06430

I'm home now for intersession, & here's a report & DX of late: 1/6- WFTC-960 Kinston, NC r/c-TT 12:09am tunein to 12:19 s/off, said RS begins @ 6am. 2/3- WQBA-1140 SS Miami o/jammer & WRVA @ 6pm. 2/4- KVOI-1330 r/c-TT nicely o/unID rr (WHOT?) 1:23 tunein till 1:30 s/off. 2/5- KJCG-1070 Bogota SS @ 1:30am, then later QRMed by WFLI 50kw. ET heard @ 1:33 w/rr. Emsora Suni HJAZ-1160 nicely atop KSL @ 1:49am. SSS, WWBD-790 Bamberg, SC @ 6:11pm w/NX WX & s/off. WCRF-1260 Birmingham @ 6:30 s/off. WKVM-810 PR @ 10:59pm s/off in EE, after SS programming. Note that NRC Log lists midnight s/off. SSS CX during the past couple of days have been favoring the SE US & Caribbean area. WKBW-1520 not heard here on 2/5 until 7:39pm, w/sunset occurring around 5:30pm. One station I've tried a lot for is KVOO-1170 on MM, but all I get is SS. Not a trace of KVOO, although a couple of years ago I heard them at R.P.I. (Troy, NY) w/the metal window frame for an antenna. Another one I can't hear is KIOA: WINZ solidly blocks the channel here. I noted on Tuesday AM 2/4 that WNEW-1130 was off again (second Tuesday this season) but all I heard was an unID SS which got lost in a mess of hets. There seems to be many possible catches on this frequency, but I can't hear 'em. Does anyone in this area ever hear KSDO KWKH WGGY WISN or CKWX? No sign of WWLE yet. WWA skywave is heard here weakly most daytimes during the winter. I must say I like the new look of the DX NEWS; I only wish the post office would function a bit better; six days or more first class from Boston is really a bit too slow. From the latest I've heard, WTRY-980 is now NSP, WPTR-1540 is off MM only from 12-5, & WSNY-1240 is NSP. Also WNAB-1450 I think still has a SM silent period from about 12-5:55. 73.

RALPH M. JOHANNIS - 501 Ellicott Street - Apt. 2 - Buffalo, New York - 14203

I noted in the 1/25 issue a certain employee of K. Bg. Co., WCAS-740, found time to muse but hasn't found time to verify some reporters (NRCers)' letters of that 'infamous' TRIP. The RLA Specials (1/27 WKXY & 2/13 WONS-1410) 2-2:15am should have been mentioned. v/q- WQVA-1490 r/c & finally WING-1410 came through. V/1, WSWF-1110, Waterfalls Bg. Corp. Box 1, Seneca Falls, NY 13148. Their CE also manipulates WFLR-1570, Danico, NY. Feb.: 7am - 5:45pm, Sun. 8-5:45. Make a note of the above address for WSWF. I'm getting the "kill or cure" stop-smoking treatment & so have not DXed any since 1/20. Jim Neff has his love (YL) w/him in Germany & got Chuck R. to get some loop items mailed for him locally. Chuck did, then it took him a week's wait for an empty cigar box from the Beth Steel gang. (The 'pill' being used heavily & no few 'boy-cigars' now). By now Wayne Reinen'll have a different haircut & be smelling 'salty' air as something different. Anchors aweigh. (I quit last Summer, halpito - you can do it too -ERC)

FRANK WALDRON Jr. - 65 Lakewood Drive - Matawan, New Jersey - 07747

V/q WDOV-1410 from Dec. & WPME-1540. v/1- WKMG-1520 WESB-1490 WHUN-1150 WYNA-1550 from Dec. & WFTC-1400 from Nov. v/f- ORTF-1554 (country #12). DX: WKMG-1520 atop WKBW w/c/w & w/NX 5:25-5:34pm. 2/1- WSSA-1570 TEST snuck in u/looped CKIM/XERF/CFOR for four minutes, 1:14-1:18. When did CFOR go AN? (I believe they s/off @ 2am Sat-Sun -ERD) WPDJ-1470 ending ET/c/w-TT @ 1:31; new WKGX-1080 ET c/w-TT 2:03-2:18, good signal. unID rr u/WOWO looping S which might be WEMJ. 2/2- Greatly surprised to hear CKBW-1000 topping WCFL strongly all evening w/CBC hockey. They are rare here & are seldom heard even w/WCFL off. MM 2/3- I got my best catch ever, KEOS-1200 r/c-TT @ 2:25, Ariz. #2. WNAB-1450 MoR & NX @ 3:01, first time here. WOR was on 11:00 all morning, WCCO apparently off. 2/4- Report on WMBR-1460 9:30-10pm, better quality than last November. Report on WMBR as Aurora came again, much better than Nov. 2/5- YVRQ-910 way atop w/mx & YL announcing, @ 1:18. SSS, WEUP-1600 o/WWHL c/w-TT w/off w/Gospel. HIBE-1180 o/u WHAM @ 9:29pm w/R. Mil promos & mx. There were hets all over the dial that I didn't bother logging. Backing up, WMOO-1450 was looped for a report w/R&B until 6:45 s/off, then left WOKJ strongly who should have gone to night pattern the same time WMOO s/off, but apparently didn't. WFLI 50kw. WPME v/q has the only DX poem I've ever seen, written by Carroll Nicoletti. Anybody know her? Thanks to those who (P.11)

February 15, 1969

(Frank Waldron) sent v/s. PS- WKYC is now MoR - echh! (Re Carroll Seth, Frank, was an NRCer who lived in Buffalo & had a delightful sense of humor and an ability to write humorous poems about NRC Conventions & DX. He was well-liked by everyone who ever met him. Unfortunately, he was killed in a terrible auto accident on the way to the NRC Indianapolis Convention in 1963 -ERC) (Back to that poem on WFME's v/q- I didn't know about this, but undoubtedly it was printed when Joe Pelletier was WFME's CE a few years ago - he was an NRC member who knew Carroll well -ERC)

CESAR OBJIO - Calle Hostos 38 (607) - Santo Domingo, Dominican Republic

Hello everybody, I regret not coming oftener to this column, but now I have a very good reason; to congratulate our BPC for the best presented publication we have now and this means that we are progressing. So Gordie, Ernie, Bob, Fandy, & all the BPC guys are doing their best for the NRC - Thank you, gentlemen. On Sunday evening 2/2 I heard some stations, many of them 50kw. Not worth mentioning, others are WJAR-920 Providence, RI "Radio 92" w/NX & ID @ 12:05am, WIBC-990 @ midnight, WINS-1010 w/NX & the usual ones. I did not hear the TESTs of WWCP-1050 or KBRV-790 at the times mentioned. On the other hand, I heard WHN-1050 NYC s/on @ 4. On 810 a station which I think is a Deep SA, but no ID heard, & did not have time to wait. At 4:20am I had to leave to Santo Domingo from Bani. No TA either. Many LAS AN, but no YV on 1130 as asked by Hoogerheide on 1/25. It is good to hear that Silvera is back "on the air". See you soon; I hope.

JOHN W. HOOGERHEIDE - Box 941 - Marquette, Michigan - 49855

1/28 I had WHEN-620 o/WIMJ w/NX @ 4:30pm, WILL-580 @ 5pm, very weak u/CKPR; WKST-1280 well atop @ 9:45pm w/"Polka Time." 1/29- WJST-1120 w/rr @ 5:10pm looping KMOX; WLIB-1190 o/WOWO on loop, 5:20pm mentioning 5:30 s/off time. Isn't this a late Jan. s/off for NYC? (WLIB's s/off is at sunset in Fort Wayne -ERC) KBOE-740 good @ 5:45pm, WKZI-800 s/off @ 5:58, then KWTI-800 s/off 6pm, also KTIS-900 s/off 6pm; KSPI-780 I assume s/off @ 6:30pm s/off after NX. Announcer seemed to carry a southern accent which I never heard on WJAG/WJMM no very rough. Any Oklahoma DXers help on this one? Hey, you in the SW who aren't bothered too much by WCKY. A 6:45pm s/off, no SSB noted u/WCKY-1530 after NX & YL giving WX. They were using CST. Rells seems to have 7pm s/off, Wagoner Okla. @ 6:30. How about KIEN, you Texans or does Rells have 6:45 s/off during Jan.7 Any help appreciated. 1/30- YND-675 quite good @ 8pm. & Guatemalans on 700 & 760 also good. No IDs on these but believed to be TCHR & TGY. R. Belize back on 830 after u/off yesterday on 835; YSKLB-770 clear ID @ 12. 1/31- I just got my crystal from Drake so for first time I can log from 1570 to 1600k. 4:30pm I had WPGC for Md. #2, then WBBJ-1580 atop. CJRN-1600 atop WCWC; WTVB-1590 heard @ 5:20; KVRB-1570 @ 6:00pm; KDKM-1580 6:10; KTCB-1590 @ 6:10; KJAN-800 @ 6 4; KNDY-1580 @ 6:20; WWWW-1590 @ 6:20pm; KOFO-1220 & KAMI-1580 s/off 6:30pm; KVGB-1590 atop @ 6:35; KLTR-1580 (new call) @ 6:40pm. 2/1- WSSA-1570 w/TT & IDs way behind Canadians @ 1:15am; WPDE-1460 @ 6:45 w/rr; KOLB-1570 ID @ 7pm, WIMB-1460 finally atop all @ 11am; WJXX-1590 u/off @ 6:40pm; KQYX-1560 w/WX for Kans. & Mo. @ 6:50pm; surprise in CHAB-800 & CKBI-900 way atop @ 7:10 on a poor FM reception night. CKIM-980 w/sports @ 7:25. 2/3- Started u/looping of WHM-1340 1-1:15; 1420 impossible w/WHK, hence no WAVO; the Protestant radio program 1111 1:30 s/off was WOC. WKYK-1150 r/c-TT 1:30-1:45; A USA SS noted AN on show on 1240 @ 2am (This is WEDC, John -ERC) Looped S, probably Chicago area. WRIA/WINN-1240 IDs @ 2; KALO-1250 s/off 2:00 u/WTAE.

## CHANGES IN STATION DATA - F.C.C.

(Purchased from Cooper-Trent Division of Keuffel &amp; Esser Co., Washington DC 20006)

## NEW CALLS

600 C B N A St. Anthony, Nfld. (10kw. U-4)	1530 W J R L Calhoun City, Miss
810 W P E D Crozet, Virginia	1540 K Z R K Onack, Arkansas
1170 K U A D Windsor, Colorado	1580 W O R V Hattiesburg, Miss.
1290 W T Y L Tylertown, Mississippi	1590 W M I M Mount Carmel, Iowa

(more on subsequent Musings pages, space permitting)

February 15, 1969

## WE WELCOME THE FOLLOWING NEW MEMBERS TO N.R.C.:

H. BALDWIN	Philadelphia, Penna.	GARY BOWERS	Kirksville, Mo.
BOB CONDR	Chapel Hill, N. C.	BOB COOPER Jr.	U.S. Virgin Is. (rejoining)
NORMAN FALLON	New York, N. Y.	OLIVER P. FERRELL	Park Ridge, N. J. *
RODDY FREEMAN	Randallstown, Md.	ROGER GALLANT	Montreal, Quebec
GENE McGAHEY	Indianola, Miss.	CLIFF RENO	New Canaan, Conn.
CHUCK SADOIAN	Dinuba, Ga.	RICHARD RICHMOND	Staten Island, N.Y.
ROBERT SCHNEIDER	Waterford, Wisc.		

\* Chief Editor, Popular Electronics!

## CHANGES IN STATION DATA. continued

CALL CHANGE	DELETED
1600 W X V I Riviera Beach, Fla. fr. WHEW 1340 C---	Whitehorse, Yukon Terr. FACILITIES
1070 W K O K Sunbury, Penna. to 10,000/1,000 U-2 from 10,000/1,000 U-4, no change in nighttime operation.	
1140 C K X L Calgary, Alta., 50,000/10,000 U-4 - delete this power; station will remain 10,000 U-2.	
1240 C K L S La Sarre, Que. to 1,000/25- U-1, from 250 U-1.	
1280 W R O C Rochester, N.Y., 5,000 U-2. Minor changes in night pattern.	
1310 W G H Newport News, Va., 5,000 U-2. Move nighttime transmitter site WNW. (station has two transmitter sites - one for day & one for night)	
1340 C H A D Amos, Que. to 1,000/250 U-1, from 250 U-1.	
1400 C K R N Rouyn, Que. to 1,000/250 U-1, from 250 U-1.	
1430 W H E R Memphis, Tenn., 1,000 D-1. Move XR N.E.	
1450 C H E F Granby, Que. to 10,000/5,000 U-4, from 1,000/250 U-1 - stays on 1450 even with this high power, a la CHYM-1490.	
1550 W C T W New Castle, Ind., 250 U-4. Minor changes in nighttime pattern.	

## HEARD SINCE LAST ISSUE

550 K R A I	Now 5,000/500 U-2	FCC	1080 W K G X	Lenoir, North Carolina	NRC
1070 C H O K	Now 10,000 U-4	FCC	1600 W X V I	Ex-WHEW	
1220 C K D A	Now 25,000 U-3	FCC			

## "AN" SITUATION

OFF- 920 K A R K

ONS- 1320 K C R A SPU  
1440 K I L E SPU

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

Two more-or-less unexpected v/l's came in this week- from Radio Junin-860 for the Venezuelan 12/1 AM broadcasts, and from La Voz de Medellin-990, an AN, logged back on MM 11/4 during Aurora CX. DX Down the Week: 2/4- A day off to go to a Wed. Broadway matinee so w/1111.1c DX on an Aurora-ish AM: Still unverified XEX-730 heard 11:30pm 2/4 to 1am w/off 2/5, in & out w/another SS & CKAC-FF. YVLIH-650, R. Girardot, noted still on 12/4 12:39am, giving AST TCs in SS. Umm WGRA-790 heard on f/c-DT 1:41-1:45 s/off - I thought he said "WERA" at first & my heart really jumped! MM 2/10 - We were up to our "you-know-whatties" in snow here, & DX was only fair. Frequent MM tester WWRN-1500 was at it again @ 1:46 & on, o/KSTP-HI & WJBK, also testing. New WBKC-1500, Chardon, Ohio, was on ET/mx/OC, w/ID @ 2:04½. They were quite strong here. Don't old WWRN-1600 was off AN this AM, but testing off & on, & brand new WXVI-1600 logged on its new late show to s/off @ 3:03am w/SSB. There was another tester there besides WWRN- an ID @ 2:09 sounded like "WMNP, Spotswood, Maine." I noted WPOP-1400 and WDRC-1360, both Hartford, on for snow-storm news, as was WFEA-1370, but WWRN was raising Holy Toledo with them. (Oh, Ernest!) At about 1:55 a.m. I noted WMM-1-1235 running TT! WWLE-1170, whose target date was 1/1/69 is still not on N! You all know that slogan of the Post Office, about neither rain nor snow, etc. shall stay these couriers from the swift completion of their appointed rounds? Baloney, there was NO mail delivery here at all today, /with 15" of snow on the ground. How it was rough going, but why have such a slogan if it's not applied? The Wed. matinee? Yep, I'm still blushing - HAIR! CUN7.

## THE DX SHOWCASE

## TONGA BROADCASTING COMMISSION



NUKU'ALOFA

TBC 106

## VERIFICATION CARD

Pyongyang, Korea

Dear Sir,

Acknowledging the receipt of your reception report dated 30th Oct., we thank you for your keen interest in the programmes of Radio Pyongyang.

It is gratifying to learn that you heard the broadcast of the Korean Central Broadcasting Station from 20.00 to 20.45 GMT on 30th Oct. on 655 kHz.

Your further suggestions will be much appreciated.

With best wishes,

Korean Central Broadcasting Committee

A couple more from Admiral Nelson's collection. ZCC-1020 has been logged in Massachusetts at least once every season during the past 6 years. The North Korean on 655 was logged here after a prolonged period of auroral quiet in 1964. If you've got something to show on this page just send it to me by and we'll have it photographed and returned immediately.

As of today, we have enlisted 22 volunteers for the NRC's Courtesy Program Committee. That's a good start, but we still need your support. If you can give a few hours a week for your NRC, please write for complete CPC details.

We now have a full supply of CPC stationary. If you are new to CPC or if your supply is small, write and I'll get some new letterhead in the mail right away. Of course, it's free to all CPC members.

A reminder to all CPCers: When you arrange a Test, don't forget to notify IRCA too. We have a very friendly working arrangement with IRCA so both Club's test schedules can be published in both DX NEWS and DX MONITOR. Send all info to DON ERICKSON 6059 ESSEX STREET RIVERSIDE, CALIFORNIA (92504). This way, you can be certain your Test information will reach the maximum number of DXers. Thanks.

In future issues, DX NEWS will publish a list of stations already contacted for Tests. This is for reference, so other CPCers won't waste time contacting a station already contacted. These stations will appear only once, so be certain you keep these lists handy. To date, I have been informed the following stations have been contacted: WETC, WHIY, WIDG, WMYR, WBRI, WLSD, WSEW, WBRE, WIKE, WJAY, KDRY, WFLR, WGAT, WWGP, WBNC, WLYC, WTVL. Don't forget to keep me posted on which stations you have contacted for future listings.

HOW ARE WE DOING? Here is the CPC BOXSCORE:

<u>NRC</u>	<u>IRCA</u>	<u>NNRC</u>	<u>ASWLC</u>	<u>RLA</u>
21	13	8	1	1

Tests arranged for more than one Club have been credited to both in the above count. Not counted are Tests which did not show. Since this BOXSCORE changes constantly, this count may differ from the count by the time this reaches you. CPC BOXSCORE will appear in all CPC REPORTS as a barometer of our success.

That's it for this time. A big WELL DONE to all CPCers for the Tests so far. Let's have many more. Remember, if you don't belong to CPC now, do something about it. JOIN TODAY.

73's and Good DX,

*Jerry*

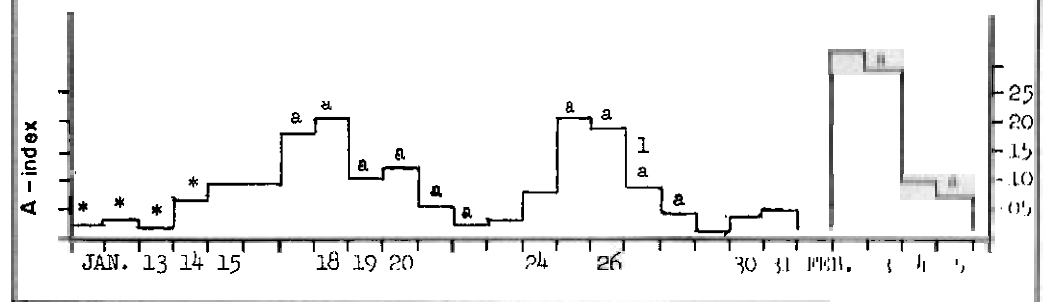
## INTERNATIONAL DX Digest



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

DX conditions here in the Northeast have been highly auroral during the past week; TA's have generally been very weak or totally absent. February 3rd exhibited the most auroral conditions noted here since the major magnetic storm 10/29/68; on the 3rd the only TA present at our regular 1830 check was Agadir-935 and that was only a weak carrier. Later in the evening most U.S. stations to the North, East, and West were very weak; reception to the Caribbean region and Northern South America was extremely good. In Pennsylvania, Ben Dangerfield reports, "Reception has been very spotty here. Near-auroral CX noted almost every other night, including 2/3. The evening of 1/25 was terrible, but on the early AM of 1/26, there was a TA opening on the top of the band. One more interesting observation. Your chart indicated 'good high latitude cx on 1/13'. On that evening around 2130, I had a weak signal on 1295 kc. I was looking for Kabul; PJD2 had signed off at 2100. Wild?" [No, Ben, the combination of prolonged auroral quiet prior to the 13th and the lateness of sunrise on that date makes it a possible reception. Recent reports out of Europe indicate that Kabul is now back on 1280 but it's not clear when they switched back... Ed] John Hoogerheide in Michigan reports, "2/4 and 2/5 were really weird nights... SS were all over the dial. 2/4 had results more toward Nicaragua and El Salvador; 2/5 more towards Cuba and Bahamas."

Geomagnetic activity took a great jump on 2/2 correlating with the time of onset of the latest auroral event pattern. The following graph indicates the level of geomagnetic activity as measured by the Fredericksburg A index. Low values of A occur when auroral activity is low; high-latitude ECB paths such as those from Europe to the West Coast and Asia to the East Coast are then possible. A values above about 20 indicate high levels of auroral activity and associated high-latitude absorption of MW signals; reception from the South is usually enhanced also. Low A values are a necessary but not sufficient condition for high latitude MW reception. Stars indicate days with reportedly good high-latitude propagation; "a" indicates observed "auroral conditions"; "1" indicates unusually good low-latitude reception (e.g., from Hawaii).



\*IRAN. The new 10 kw Abadan transmitter is now operating on 1160. (W1)

\*QATAR. Doha Radio on 674 has extended hours of transmission to 0700-0800 and 0800-1355. Apparently this outlet has not yet been heard by DX'ers in Europe. (W1)

\*SAUDI ARABIA. Riyadh is now in English at 0030-0230 and 1200-1400 on 475; both time slots impossible in North America unfortunately. (SCDX)



\*PORTUGAL. The new 100 kw transmitter at Sao Gabriel on 1412 is used for Foreign Service on the following schedule according to a letter from the Chief Engineer:

1545-1630 Italian	1715-1800 German	
1630-1715 French	1800-1845 English	(Ericson)

## FBIS LOG OUT

The CIA's yearly listing of Broadcasting Stations of the World should now be available from the Government Printing Office in Washington. While it's even later than usual this year because of a new computerized production system, this newest innovation has resulted in a price reduction of the final product. Part I, the listing by frequency, and Part II, listing by country, are now both available for only \$1.75 from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. Used in conjunction with the latest World Radio TV Handbook and IDXD, this latest FBIS station list supplies the international DX'er with just about all of the information there is!

## SIMULTANEOUS Listening Contest

Comments on the last SLC: "No suggestions for improving future contests but my wife's reaction to the 4:30-5:30 AM (PST) blocks is something else. And I've gotta get a loop!" (JK) "The height (or depth?) of frustration was in block 15 when 1040 yielded no signal whatsoever. Likewise 660 in block 7 and 840 in block 16. What a waste of time... actually KUAJ a good catch for me as KIRO, 50 kw was operating on 710 but I was able to loop out pretty well and open up 720." (Mallar) "More MM blocks; I think most participants DX most MM's anyway - and they're far more productive. Consider shortening the blocks to ½ hour. The contest was fun again; much better conditions than last year." (Kenney) "Was a bit disappointed that some of the blocks contained US clears such as WOAI but I suppose this can't always be helped if optimum time for split DX occurs while U.S. stations are still on." (GH) "Don't run quite so close to Christmas. Pick a time when ex are better." (Sullivan) "I looked forward to the contest for several weeks, and anticipated each session. And now I can say that I greatly enjoyed the time devoted to the contest. I hope that in the future we will have more SLC's but at a less hectic time of season." (Hoffman) "How about extending times in blocks and including NZ and European clubs?" (Scrimgeour) The stations I heard were so-so; not a real thriller in the lot, but then again ex were so-so. However the contest was most enjoyable and I am all for running another this spring." (Dangerfield)

We'll try to get in another North American SLC this season; have received letters from both Arctic and EW Circle (England) expressing interest in a Europe-NA SLC this year and I hope we can also organize a DU-WC affair also.

### SIMULTANEOUS LISTENING CONTEST RECORDS

#### TOTAL COUNTRIES, ALL TIME

Dangerfield, Pa. (2)	21	Hauser, N.M. (2)	10
Moore, Mass. (2)	15	Cronin, Mass. (2)	8
Nelson, Mass. (2)	15	Conrad, Ky. (1)	8
Sullivan, Mass. (2)	14	Karchevski, Mass. (1)	7
Kenney, Calif. (2)	10	DeLorenzo, Mass. (1)	7

#### MOST POINTS, SINGLE CONTEST

Nelson, Mass. (3/68)	196	Hauser, N.M. (3/68)	88
Dangerfield, Pa. (3/68)	179	Moore, Mass. (3/68)	80
Dangerfield, Pa. (12/68)	112	Conrad, Ky. (3/68)	78
Moore, Mass. (12/68)	107	Hauser, N.M. (12/68)	74
Kenney, Calif. (12/68)	94	Karchevski, Mass. (3/68)	69

(by Ray Moore)



Members' Loggings:  
Bob Foxworth, GPO Box 2111  
New York, N.Y. 10001

## Monitor Reports

Feb. 15, 1969

- 529 Algeria. Ain Beida at good level 1740-1811 fade-out, but heavy beacon QRM. Chanting till 1802 then man in AA, probably newscast. Hrd Feb. 1st. Thought this was now silent. (Blumenthal, Mass.)
- 535 Grenada. Cricket test match 0210 1/27 but only fair. (Engberg, Ma.)
- 540 Colombia. HJKA R. Horizonte, Bogotá all alone with strong steady signal 0350-0425+ on 1/30. Had uninterrupted guitar mx from 0350 tune-in, then sign-on anct and NA 0401, then into pgms with male and female ancres. Tape and report sent. (Starr, Ohio)  
I did not hear any ID but I think the station is Radio Horizonte which seems to have changed name of AN program from: "Su Chica Horizonte" to now "Una Chica en su Ruta" (A girl on your route) and a YL speaker around 0410; this is a special pgm for drivers on the road. (Objio, D.R.) (This pgm AN every night? -Ed.)
- \*\* 550 Venezuela. R. Cultura, YVKE Caracas hrd on this new freq ex-1100 with ID 2012 on 2/2. (Objio, Dom. Rep.)
- 550 Jamaica. RJR occasionally atop glop 1/27; Test Match. (Engberg, Ma.)
- 555 Nicaragua. YNG Radio Tic-Tac averaging s-5 2215-2245 1/22, logged and reported. (Ernie Cooper, N.Y.)
- 560 Mexico. XEOC Mexico City hrd MM 2/3 0104 thru KLZ w/pgm "Regalos del Medianoche"; instr. mx. Hrd again at s/off 0203. WFIL was silent. Glad to get this one. (Merrill, Mich.) (Welcome, Frank)
- 580 P.R./Jamaica. WKAQ San Juan hrd MM 1/27 w/WIBW, SS rock mx and had a jingle similar to the "C-K-L-W: Double Golden" jingle. Later, after WIBW off, RJR hrd w/cricket. (Merrill, Mich.)
- 590 Mexico. XEPH Mexico City seems to be regular here MM's before 0100. They're "Radio 590" and play mostly US rock mx vintage of 1968. (Merrill, Michigan)
- 570 Trinidad? (Out of sequence, sorry-Ed.) Hrd at same time as ZIZ 2015 1/27. Hrd on replaying of tape; fragmentary bits of man with American accent with seemingly a commentary or news and mentions of Trinidad. Could be the AFRTS stn here but not enough to ID. CX were auroral; exceptionally good. First logging in North America? (Nelson, Mass.) (AFRTS Chaguaramas -Ed.)
- 600 Colombia. HJHJ R. Libertad, Barranquilla w/TC and ID 0215 followed by ad for Super Mercado. (Meyer, Ithaca, N.Y.)
- 610 Mexico. XEBX, Sabinas, Coah., 0830-0855 12/19/68 w/mx and ID; my best XE daytime catch at 3 kw and 265 miles. (Van Horn, S.A., Texas)
- 611 Tunisia. On late, strong in AA 2025 1/29. Also had strong OC from Algeria-548 AN. On due to Mideast war threat? (Nelson, Mass.)
- 620 Jamaica. JBC about even w/WSUN, cricket match 1/27. (Engberg, Mass.)
- 620 Mexico. XENK Mexico City powerful signal 0130 Feb 3, recorded mx with canned applause. S/off 0153. (Starr, Owhyoh)
- 640 Venezuela. YVQO Ondas Portenas, Puerto la Cruz hrd above CHQ 1/21 abt 0025; several IDs and nice mx. (Scrimgeour, Ont.)
- 650 Dom. Rep./Venezuela. HIAT "Radio Universal", Santo Domingo logged and reported 1/21 1915-1935 way atop everything but taken out at 1935 by usually dominant YVLM which was also hrd and reported Wed 2/5 0000-0100 with frequent TCs in AST. (Cooper, N.Y.)
- 700 Jamaica. Montego Bay outlet dominating this freq with cricket match on 1/27 and I wasn't using a loop. (Engberg, Mass.) (Curtain in modest...I'll bet he uses just a little teensy Sterbn Curtain, hi)

- 705 St. Vincent. Probably the loudest of the crickey network except for RJR-770; logged here 0150 1/27 and was the first time this W.I.B.S. outlet heard, thanks to WOR silent period. (Engberg, Ma.) A happy set of circumstances found this one on with cricket and local WOR-710 off for new log and new country, 1/27. I believe all these British stations in the Islands will be AN again MM 3/3. (Cooper, N.Y.) (Well, forewarned is forewarned, or, err,...
- 715 unID. SS here with SS pope and deep-voiced male announcer hrd 0125 - 0203 s/off with piano mx, 2/2. Believe HRTV; is this a new extended sked? (Scrimgeour, Ont.)
- 720 Jamaica. RJR Kingston logged with cricket 1/27 thanks to WOR-710 and the Cuban- 720 both being silent. Over/under WGN. (Cooper, NY) Did not check here AM of 1/27 but had cricket that same evening and logged atop the freq at 2345. (Engberg, Mass.)
- 730 Trinidad. Radio Trinidad, Port-of-Spain undoubtedly the one here at 2245 2/6 with AST TC's, EE ancts and SS mx. Well atop the channel in auroral cx; cut carrier 2305 leaving weak CKAC. (Waldron, NJ) (Welcome, Frank.) Radio Trinidad hrd 0500 1/27 with news and into pgm "Inspirational" at 0504. (Kilroy, D.C.)
- 737 Spain/Nothing. RNE noted high 1840 1/30 with No Sign of a het from the new Egyptian on 736.5 appx. kHz. (Nelson, Mass.)
- 750 Jamaica. Cricket atop here also, 1/27. (Engberg, Wayland, Mass.)
- 770 Jamaica. Cricket here, loudest of any station so hrd, 1/27. (ditto)
- 780 Brit. Virgin Is. Stopped by 780 at 0507 2/10 and found a very high signal from what I assumed to be Barbados. Was all set to tune away when I heard a dedication for the town of East End (on St. John). From 0507 to 0530 an extremely powerful signal, all alone, on this channel from ZHVI, Rodetown, Tortola, B.V.I. with gospel mx and dedications. ID hrd at 0530: "You are listening to Zed-B-V-I, the voice of the Virgin Islands." Then, continued with gospel mx. Where was Barbados at this hour? Unfortunately ZEVI not a new country as I had hrd them before, hi. Probably now using that new 10 kW rig that Pete Taylor saw at the NAB show. (Nelson, Mass.)
- 780 Barbados. Only cricket noted on this freq 0207 and again at 2340 on 1/27. (Engberg, Mass.)
- 810 Mexico. XEFW Tampico hrd w/RCN IDs and promos 2140-2204 12/29/68. Soon faded over domestics. (Van Horn, Texas)
- 833 Br. Hond. Belize here evenings thru Cuba + WCCO. Cou.#6. (Van Horn)
- 872 Spain. EAJ-101 Radio Zaragoza exc. level 2103 1/29, alone (Nelson)
- 885 Montserrat. Cricket matches first noted strong here about 0140 1/27 and since this was a new log it caused me to check the other outlets with 6 new stations in the next hour. (Engberg, Mass.) Even signals from Montserrat and YNKW-Managua here evening of 1/29 and totally separable by looping. (Nelson, Watertown, Mass.)
- 890 Algeria. Strong here in HF 0145 1/27. (Engberg, Mass.) (Haiti now on 830, Curt.)
- 910 Venezuela. YVRQ loud 0118 Feb 5th, YL, MoR mx, slogan "Radio Aeropuerto" between each selection. (Waldron, Matawan, N.J.)
- \*\* 920 Neth. Antilles. Radio Victoria, PJA-6 Oranjestad, Aruba IS on the air, hrd Sunday 2/7 with religious programs. IDed at 1000 in Papiamentu and changed to Spanish. Weak signals; perhaps not operating now with 10 kW. Signals heard all day long, however. (Objio, D.R.)
- 935 Maroc. R.T.M. Agadir hrd on late 1925 1/29 in AA; why late? (Admiral Nelson, Mass.) Same morning as 548-611 etc hrd operating late.
- 975 Ecuador. Assumed HCAW. The one here 0030 1/20, deep fades between

- ..between periods of clear reception. Mentions of Ecuador hrd. Also noted about same time on 1/2. (Engberg, Mass.)
- \*\* 985 UnID Mystery. LA mystery here was hrd until 0100 2/7 and quite strong at times. Only ID seemed to be: "Transmite ---- erray-say-tay" or phonetically similar; much echo and reverb on this ID. Bearing from Mass. includes Panama, Ecuador, Peru and Colombia. Does not include Chile. A letter from Don Kenney advises the bearing from California indicates a location North of Ecuador, and he suggests Panama and Colombia. No city or call letter ID heard, however the frequency was definitely heard as "-----cinco" which indicates the station is aware of being on a split freq. Considering bearings taken from Mass. and California, the taped ID and the frequency anct. it seems safe to say that this station is HOF, Panama. (Objio the first to report this, reception of 12/22/68 appearing in the Jan 4 IDXD-Ed.) They announce "Circuito R.P.C. and are on until 0100 s/off; no anthem used. A second signal here is on until appx. 2300, visible as a SAH and occasionally breaks thru with bits of LA mx. Bearings  $\pm 10$  degrees that of Panama; could be Peru or Chile; is not Nic.-D.R.-Cuba. ...if this first station is not Panama, just a very small offhand chance it may be HJES, however I'm confident it is HOF here. (Nelson, Mass.; this info synthesized from a couple of long phone calls by your Ed)
- 990 Colombia. Is HJDB the ACN station hrd here all RM 2/3? Only QRM seemed to be from KTKT. (Merrill, Mich.) Could be.
- 990 Puerto Rico. WFRA ID hrd 1457 2/3, apparently came on at 0430. (Merrill, Milan, Michigan)
- 995 Ecuador. R. Suceso, strong w/sports 2055 2/6. (Admiral Nelson, Ma.)
- 1000 Virgin Is. WBNB Charlotte Amalie a surprise here 1730-1800 1/30 over WCFI. (Blumenthal, Worcester, Mass.)
- 1010 Dom. Rep. HIJP Radio Comercial, Santo Domingo, typical SS mx and IDs 0600 2/3. (Meyer, Ithaca, N.Y.)
- 1015 Panamá. R. Reloj, Panama City with pop mx, ID at 2458 on 2/2 announcing the time as 11:56. (Objio, D.R.)
- 1065 unID. SS noted about here, AN III 2/3, Hoo? (Merrill) Nil reported.
- 1090 unID. Who is the "Radio Popular" here, noted before 0100 2/3 with this ID given frequently. Also thought I hrd a "Podolar" but not sure. (Merrill, Mich.) Weak unID Caracol here 1M. (Cooper, N.Y.)
- 1120 Panamá. Radio Minutera the AN-1M here when WOX in off, noted 2/3, here ex-1115 kHz. (Merrill, Mich.) (Calls = HON-21 for what it's w
- 1160 Venezuela. R. Industrial, YVBR Guarenas hrd with w/on 0513 with anthem and elaborate anctns. Many references to station as "urray, erray" and tape and report sent. (Starr, Ohio)
- 1175 Costa Rica. "Radio Columbia" heard here on Auroral evenings, late hours, with domestic splash. (Cooper, Brooklyn, NY) Hrd for the first time on 2/2 IDing at 2347. (Objio, Dom. Rep.)
- 1180 Dom. Rep. Radio Mil, HIHE over/under a fairly weak WHAM at 2140 2/5 with many Radio Mil promos. (Waldron, N.J.)
- 1190 Mexico. XEWK Guadalajara, Jul. is the station hrd here 1/4 at 2220 to 2225 with SS mx and IDs, sounded 100 kW as B-9+. (Van Horn, Tex.)
- 1190 Colombia. HJCV Radio Cordillera, Bogota IDed 0026 1/20. (Berlinger)
- \*\* 1190 Argentina. Radio Antártida, LR-9, Buenos Aires, mx, time alternating with Argentinian songs. Very good and in the clear, 0500 on 2/3. (Objio, D.R.) (Was hrd on 1195...Ten years ago by go Old Ancient Scribe...when a beginning DXer. What memories!! H. (Merrill)
- 1210 Cuba. Reloj Nacional with nx and tic-toc, time every minute, hrd 0105 2.3. (Meyer, Ithaca, N.Y.) (more)

- 1210 Cuba. Long Castro speech noted here from Cuban 1830-2015 and had to use special antenna to eliminate WCAU. Not many technical details of reception available, however detailed notes of content of speech were taken. Tried again the next night, unfortunately my landlord found the antenna and took it down so I will have to be content to listen in the 49-m.b. from here on in. (Carl M. Stoneberry, c/o Acme Enterprises, B.P.R. Langley, Va.) (Gee, Carl, it must be great sending reports on all that free Government stationery, hi. Let's hear from you again.)
- \*\* 1320 Dom. Rep. Radio Baní HIAV hrd drifting on this freq. (Objío, D.R.)
- 1430 Colombia. Assume HJAP Cartagena here, 0457 2/3 hrd an unID SS with lengthy Caracol ID. (Kilroy, D.C.)
- 1460 unID. Tentative WFBA Puerto Rico s/on 0500 2/3 with sounds of a rooster, dog, birds and horse, in that sequence, and then into "en Puerto Rico..." (Kilroy, D.C.)
- 1460 Colombia. Weak one here 2/3 from 0129-0206 w/pgm "L.V. de la Noche" with semi-religious mx. Gave Bogotá as QTH, asked for letters; apparently HJJW. (Blumenthal, Mass.) (FM: Ur unID is Cuban here.)
- 1480 Puerto Rico. WHDD Fajardo way over all else 0145 1/24. (Starr, Ohio)
- \*\* 1518 Dom. Rep. Radio Pueblo NIBL drifting; now here. When will this Happy Wanderer stop? (Objío, D. R.)
- 1520 Cuba. CM-- here, mentioning Oriente frequently, never heard before, very good signals with WKEW silent 1/27, hrd at 0430. (Starr, Ohio.)
- \*\* 1525 Dom. Rep. R. Maibá, Santiago hrd here 2010 with ID 2/2. They are operating again but drifting from the assigned frequency. Correct info will be sent later. (Objío, D. R.)
- 1530 Mexico. XEUR first hrd MM 12/23 and 1 or 2 MM's since. (Merrill, Mi.)
- 1562 Switzerland. S.B.C. here 0130 1/25, excellent past 0210 with light mx, all instrumental and male-female anners, sometimes in conversational style. (In German, no? -Ed.) Reported, Cou.#45. (Starr, Ohio)
- 1562 Int. Waters. I presume that Radio Veronica was the station I heard MM 2/3 from 0121-0140, playing mostly U.S. MoR mx, with ancts in a language I couldn't savvy. (Dutch?) Fading like a SW stn. (Merrill)
- 1578 Portugal. CSB-5 Porto with very readable signals 0248 1/24, the only TA of the morning. (Starr, Youngstown, Ohio)
- 1586 Germany. Langenberg should be stn hrd super-strong but fading at about the same time as my 1562 item. (Merrill, Mich.)
- 
- 770 JAMAICA. RJR QSL card for 12/31/68 cricket, new cou. (Scrimgeour)
- 860 VENEZUELA. Radio Junin YVOL v/1 in SS for 12/2 ER report, got it 2/4, very friendly and v/s Josefina Monsalve, Secretaria. Addr: R. Junin, Apartado de correos 220, San Cristóbal, Estado Táchira, Venezuela. (Ernie Cooper, Brooklyn, N.Y.)
- 890 DOM. REP. R. Continental HIPJ sent pleasant well-worded v/1; v/s: Pedro Justiniano I., Presidente, Apto. 156, Santo Domingo. Also lists a mobile unit on 173.05 kHz; should read MHz. (Starr) (yes.)
- 990 COLOMBIA. V/1 in SS and "banderin" (pennant) from L.V. de Medellín, Apto. Aereo 12-44, Medellín, Colombia for reception of AN show 11/4 and rec'd 2/7/69. V/a: Alberto Jaramillo Osorio, Secretario. Mention 42 RCN stations of which they are "la primera." (Cooper, N.Y.)
- 1295 ENGLAND. Letter from R.R. Hatch, CE, External Bdg, for Crowborough xmtr here. Very friendly; claims many reports from Canada in the Spring and Fall. Details freq, power (150 kW) and QTH. (Scrimgeour)
- 1554 FRANCE. V/form in FF in 17 days by air from OATF Nice. Specifies 1554 kHz and says power is 300 kW. Vs: Le Chef de Division; name unreadable. (Merrill, Mich.) ---NYC snowbound. Ugh. 73 de Bob.

# DOMESTIC DX Digest

Randall Kane  
37 Myrtle Ave.  
Winthrop, Mass 02152



## domestic contest standings

<b>Don Kaskey, Hotel El Rancho, PO Box 235, W Sacramento, Cal 95691</b>			
1 Stewart Drake, Pa	597	21 Richard Eddie, Mo	246
2 Bob Shaw, Ohio	486	22 Wayne Heinen, NY	241
3 Frank Waldron, NJ	477	23 John Gifford, Ill	229
4 Bill Nittler, Colo	475	24 Gene DeLorenzo, Mass	224
5 John Javetski, NY	434	25 Jerry Conrad, Fla	223
6 Dave Fischer, Neb	412	26 Chuck Hutton, Ga	204
7 Don Kaskey, Cal	407	27 Duane Giese, Mo	189
8 Joe Fela, NJ	381	28 Walter LaRoche, Pa	171
9 Dave Carlson, Mo	371	29 Don Erickson, Cal	169
10 Randy Kane, Mass	361	30 Dave Prather, Cal	159
11 Marc DeLorenzo, Mass	330	31 Fr. Jack Pejza, Cal	132
12 Clarence Freeman, Cal	327	32 Bob Pietsch, Cal	127
13 Dave Allaway, NY	324	33 Dennis Vroom, Cal	119
14 George Sherman, Minn	320	34 Larry Van Horn, Tex	116
15 Dave Kulka, Cal	315	35 Paul Kilroy, DC	104
16 Ken Lyon, NY	302	36 Fred Nordquist, NY	38
17 Glenn Hauser, Colo	299	Bill Ochs, Me	38
18 Mike Northam, Oreg	292	37 Bill Block, Oreg	0
19 Frank Wheeler, Pa	262	Lynn Brooks, Okla	0
20 Gene Mattocks, Cal	250	Bob Jacoby, Cal	0

- PRIZES:**  
1st place \$12.50  
2nd place \$ 6.25  
3rd place \$ 3.25  
4th place \$ 2.00  
5th place \$ 1.00

A special prize of \$5.00 (Genuine ERBA Cash Money) will be awarded to the West Coast DXer (Cal/Oreg/Wash) who ends up with the most points. It looks pretty safe at this point.

Total monies in entry fund \$20.75. Remainder is contributed by ERBA HQ..... Don.

## after hours:midnight to sunrise

- \* 560 WNEU-Mass Northeastern U, Boston, good strength both here and on 1120 2/3 0301-0331. Uses 13 Krs of loss than 100 mw each, but radiates considerable RF. Nonstop pgm, good quality modulation, verified. (Gordon Nelson, Mass)
- \* WPIL-Pa Noted off MM 2/3. (Frank Merrill, Milan, Mich)
- + 570 WMAM-Wis Newscast in progress at 0101 after WKRN s/off, WMAM s/off w/SSB 0107:30 tx to recent tip in DX News. Very potent 100 watt, 4th one in as many years. (Starr)
- 690 KHEY-Tex Heard 1/27 0208-0214 w r/c. (Ken Lyon, Akron, NY)
- 710 WGBS-NY ET/OC-mx 0330 MM 1/27, WOR off. (Frank Waldron, NJ)
- 790 KBRV-Idaho 2/3 NNRC-DX was not on. (Mike Northam, Beaverton, Oreg)
- KGHL-Mont Brief ET/mx 0430-0444 2/3. (mbn)
- KWIL-Oreg On top w/relig pgm 0417-0445 2/3 o/unID SS, no WMO hrd
- WMC-Tenn HI 2/3 atop KWIL w/loop, ad & ID 0530. (Kaskey, Cal)
- + 870 WWL-La S/off 1/19 at 0200. (Father Jack Pejza, Cal, Cal)
- \* 900 GHNO-Ont Noted o/CIDML w/RR 0150 1/31. AN? (Starr, Ohio)
- 950 KPRC-Tex Is NSP w/MM AN now, C&W format hrd 2/1. (Merrill, Mich)
- 990 KTKT-Ariz Very good at times MM 2/3 w/only HJAP QRM. (Merrill)

990 KLIR-Colo Again ETing 2/3 w/250w Xr, s/off 0339. (Kaskey, Cal)  
 1050 WWGP-NC 2/3 DX not hrd, nor CRGP, only XEG 0304-0308, maybe due to auroral cx. (Northam, Oreg)  
 \*1170 KV00-Okla AN w/MoR 0337-0347 MM 2/3, but male anncr- not HI. Perhaps there's hope? (mbn)  
 1210 Nil 0306 2/10 no sign of KGYN IRCA-DX, much R Reloj, possibly due to null to WCAU. (rk, checked with GJ Fox)  
 \*1230 WFAS-NY 1st time hrd 0107+ 2/10 w/wx, school closings o/unID TT; perhaps MM AN for storm emergency. (randy)  
 WBVP-Pa Concluding AXR test 0138 2/3. (Starr, Ohio)  
 WKBO-Pa F/c-TT hrd 0124-0130. (Waldron, NJ) Date? (rk)  
 unID TT 2/3 0310-0313 u/KQIT & ANs. DF E/W but no IDs. (DKK)  
 unID ET mx-TT 0453-0500 2/3, no IDs hrd. (mbn)  
 1240 WINN-Ky Atop 0211 1/30, C&W. (Waldron, NJ)  
 CJWA-Ont CJIC ID here 0131 1/27, this one assumed. (Merrill, Mich)  
 1270 WEIC-Ill ET-TT/OC 0135-0240+ on 1/30. (Starr, Ohio) (Kaskey)  
 1290 KCUB-Ariz AN QRMing KMEN 1/31 at 0335, not hrd on AN for some time.  
 \* WBLE-Miss F/c-TT 0244-0259:30 2/2, not listed; after 0300 anncd PoP w/500w, OC-TT. (Starr, Ohio) (rk, GJ Fox)  
 Nil Also no sign of KOWB IRCA-DX, MM 2/10, much WICE/CJOE.  
 1330 WPOW-NY No sign of WHAZ DX 1/13, but WPOW ID hrd 0400 after many vain tries. (Merrill, Mich)  
 \*1340 WJPF-Ill R/c-TT is monthly 3rd MM 0140-0150, hrd 1/20. (Waldron)  
 WLDY-Wis Hrd 1/27 at 0152-0200 w r/c. (Lyon, NY)  
 +1350 WCVU-Va 0309-0330 RS 2/10, up-tempo MoR. (Geoff Fox, Boston, Mass) Was AN MM 1/27, possibly NSP now. (Waldron, NJ)  
 1360 WBAY-Wis Ending ET/C&W mx 0310 2/2. (Starr, Ohio)  
 1400 KXIV-Ariz All alone (On a graveyard? Why you... rk) 0525-0602 2/4 w/MoR o/loud low-pitched het(s) (BC iceboxes?). KPAT/KBMI off, KATI not hrd. (mbn)  
 1410 KWYO-Wyo R/c-TT just made it u/WING 1/20, State #41. (Waldron)  
 1420 WAVO-Ga 1/3 DX not heard, all WHK. (Starr, Ohio)  
 1440 WJAB-Me Hrd 2/1 at 0108-0115 w/ET-mx/TT. (Lyon, NY)  
 \* WHIS-WVa Heard 2/1 at 0532-0545 w/unlisted f/c. (Lyon, NY)  
 \*1450 KDXU-Utah F/c 0246-0300 2/3 u/mess; Kaskey says hrd in Dec but not in Jan so maybe bi-monthly r/c. (mbn)  
 WW?? Ending f/c-TT 0344 2/3. Four possibilities, nothing listed. (Starr, Ohio)  
 1460 WFMH-Ala Heard 1/27 at 0203-0231+ w/TT. (Lyon, NY)  
 KENO-Nev Ending ET/mx 0338 2/3, L&C. (Starr, Ohio) ET 2/3 w/ID 0544. (Kaskey, Cal)  
 1470 WPAR-Pa Local had TT 0005-0037 1/31 w/no anncts. (Starr, Ohio)  
 unID TT 0507 to 0520 off 1/28 even w/KXOA, no IDs. (mbn)  
 \*1490 WPOR-Me On late evidently due to storm w/MoR, anncts, etc, 1st time heard, 0152 2/10. (rk)  
 WKNY-NY L&C w/RR 0400 2/4. (Starr, Ohio) AN 2/9 rebroadcasting W-TEN (Albany) Telethon. (Fox, Mass)  
 WBGB-Pa Hrd AN MoR 2/9. (Fox, Mass)  
 1500 WDEN-Ga 2/10 ET 0227-0227 fade-out+, C&W. (Fox, Mass)  
 \*1520 WKBW-NY OC-DT-TT 2/10 0057+, 3rd MM in a row off RS. (rk)  
 1530 KECK-Neb Very weak u/CKY OC on NRC DX 1/20 0325, continuous IDs. (Waldron, NJ)  
 KGBT-Tex Heard MM 1/27 & 2/3 w/SSB s/off 0100. (Merrill)  
 1550 WAAY-Ala ET/mx 0130 2/7, said RS would resume about 0300. Solid signal, evidently day power/pattern. (Starr, Ohio)  
 WNTN-Mass ET/TT-OC 0400-0335+ 1/31 w/usual super-strong signal. (Starr, Ohio)

MAIL 2/10 DUE TO THE INCREDIBLE NE STORM... NOTES 2/11 FROM FISH, RMJ, RJE, TOO LATE.

1560 KBIB-Ark ET/mx PoP 0205-0225+ 2/2, surprising signal for only 250w. (Jerry Starr, Youngstown, Ohio)  
 \*\* WQXR-NY On until 0200 2/2. (Starr, Ohio) Cf DDXD 2/8, but off at 0000 MM 2/10. (rk)  
 1570 WSSA-Ga TT heard 2/1 at 0007-0029+ w/NRC DX, QRM from XERF/CKLM. (Lyon, NY)

### sunrise and daytime

+ 660 KSKY-Tex S/on LP (? -rk) 0659:50 MM 2/3 w/good signal, "Sky Radio." (mbn)  
 710 WGBS-Fla S/on 0524 12/23 while listening to WOR at full volume. (David H Citron, N Miami Beach, Florida)  
 + 940 WINZ-Fla S/on 0555 MM 12/23. (Citron, Fla)  
 +1060 WNOE-La S/on 0516 12/23. (Citron, Fla)  
 1090 KAAV-Ark S/on-SSB 2/3 0558 u/XERB OC. (Kaskey, Cal)  
 1150 WDEL-Del S/on 0459 12/23. (Citron, Fla)  
 \*1204.8 Pirate-Mass 2/2 continuous RR, fair modulation, no IDs hrd (see Morss, DDXD 2/8), DF indicates Lynn to Gloucester. Off abruptly at 1500. (Nelson, Mass) Not on 2/8 weekend, as is nearby and should be hrd. Next time he's on we'll nail him, hi. (rk)  
 +1230 WBVP-Pa S/on 0500 w/SSB 2/3. (Starr, Ohio)  
 +1400 KTUC-Ariz S/on 2/1 at 0659 w/anncts & SSB, way u/KXIV. (Kaskey, Cal) Not NSP, then? (rk)  
 KVOY-Ariz Took over freq 0705 2/1 w/C&W mx, atop all. (Kaskey)  
 1500 WTOP-DC S/on 0531 12/23 w/SSB. (Citron, Fla)  
 1520 WXXX-Fla S/on 0700 12/23. (Citron, Fla)  
 +1550 CBE-Ont S/on is 0500 weekdays. (mbn)  
 +1580 WSRP-Fla S/on 0600 MM 12/23. (Citron, Fla)

### sunset and evening

730 KPCN/KKDA-Tex Grand Prairie at s/off 1/19, unable to catch call. (Merrill, Mich)  
 780 WCKB-NC 2/2 ID 1613, considerable QRM from 782. (Nelson, Mass)  
 WAVA-Va Strong 1640 1/26. (Nelson)  
 1050 KOPY-Cal Forgot to s/off their SS pgms 2/4 until 2048 when SS cut off in mid-sentence, should s/off 2044. (Kaskey)  
 KORE-Oreg Thru hash at 2025 2/4. (Kaskey, Cal)  
 KBLE-Wash S/off 2/4 2024 to return 1015, o/KOPY et al, no SSB. (Kaskey, Californian)  
 1090 WJRM-Tenn S/off 1830 2/2, uses slow instrumental mx up to s/off as does WGLC-Ill. (Merrill, Mich)  
 1110 WUNN-Mich Has s/off 1800 during Feb, Jackson & Landing on until 1815. (Merrill, Mich)  
 1250 WTMA-SC In all eve 2/4 after 2100 w/RR, no sign of WPAR. (RJE)  
 1360 WKAT-Fla 2/4 at 2210 w/"Talk of Miami", tnx rk. My SW must have been WBNX splash. (Russ Edmunds, Haverhill, MA)  
 1430 KGAY-Oreg S/off 2/3 2045 atop KARM. (Kaskey, Cal)  
 1540 unID Had to have been KGLA-La w/Dixie s/off at 1800, KARK KCTO and KLKC don't fit (for various reasons which I can't decipher -rk). (Merrill, Mich)





## schedules and other info

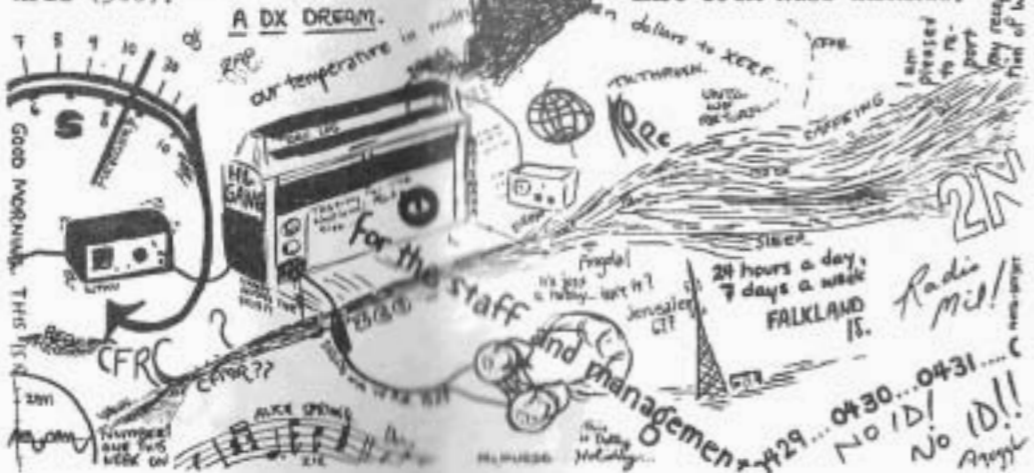
- + 640 KFI-Cal Now NSP, as AN MMs 1/27 & 2/3. (Northam, Oreg)
- ++1050 KLUC-Nev Delete (on 1140). (Northam)
- +1100 WGPA-Pa Zip is 18016, addr is 428. (Waldron, NJ)
- +1140 KLUC-Nev Is on, w/500w PSA. (The apt and able Representative of the esteemed and eclectic Northwestern Extreme of the blessed, sun-bathed Western Chapter of that sober if stable Organization of incredible boozers, ERBA)
- 1170 WWLE-NY Apparently still not on as of 1/29. (Waldron, NJ)
- + WLKE-Wis Is on w/1 kw CP. (Waldron, NJ)
- +1220 CKDA-BC Is Victoria, PO Box is correct; MM SP given as 0305-0800 at s/off 2/3. (Father Jack)
- +1230 KRDR-Oreg 24 hrs SP: Mon 0300-0800 irreg. (mbn)
- + WCRO-Pa 0500-0200 (0700-0000) (Waldron, NJ)
- +1240 WWCO-Conn Is Ac as well as M. (Edmunds, NJ)
- +1340 WMID-NJ Now Ac. (Edmunds, NJ)
- +1370 KAST-Oreg Add, Astoria, 1000 U2 PSA 500 M Box 445 0900-0300. (Northam, Oreg)
- 1440 KODL-Oreg This is the correct call. (mbn) So? (rk)
- +1450 KONE-Nev S/off w/jingle 0301 MM 2/3, anned s/on as 0900 so maybe off NSP. (mbn)
- +1490 WBCB-Pa New addr: 200 Magnolia (Fox, Mass)
- +1500 WAKE-Ind Now Ai. (Edmunds, NJ)
- +1520 WKMG-SC Is Ae. (Waldron, NJ)
- +1580 KDAY-Cal 24 hrs SP: Mon 0300- (Northam, Oreg)
- + WCLS-Ga Is NSP. (Waldron, NJ)
- \*\*1590 WAKR-Ohio Evidently off MMs, as WEEZ all alone often MMs, including 2/10. (rk)

An item out of order... A section.

- \*1400 KNND-Oreg 1/29 0259-0305 s/off; 1/30 0111-0403 on late w/snow emergency pgm; 1/31 s/off 0300, instr SSB. (Kaskey)

## new psas

630 WJMS-Mich (500w modified) 910 WAVL-Pa (350) 1090 WQOC-Tenn (7.85)  
 1140 KBIL-Mo (47) 1380 WGNM-Tenn (500) 1410 KHAL-Tex (400) 1510  
 KM00-Tex (250) 1550 WKQV-Ind (250) 1560 WTAI-Fla (500) 1600 KVIO-Ariz (500).  
 Info from Russ Edmunds.



## SPURIOUS SIGNALS

by G.P. Nelson

If you're like most of us afflicted with powerful nearby locals, you've no doubt wasted quite a few hours trying to pull an identification from a weak station on a "clear channel" only to discover that it's just a "spur" from one of your beloved locals. There is considerable confusion about some of these spurious responses and the purpose of this article is to describe some of the commoner varieties and outline their causes and cures. Most - but by no means all - of the spurious responses encountered on the ECB are the fault of the receiver and are relatively simple to eliminate once the cause is tracked down. Other types of "spurs" (external mixing products in particular) are harder to eliminate; even so it's often useful to chart them out ahead of time as we'll describe so that you will know in advance where to expect them to appear on the dial.

It's convenient to classify spurious signals into several groups on the basis of origin of the undesired signal as follows.

### TRANSMITTER ORIGINATED

- a. Harmonics appear only on channels that are even multiples of the original transmitter frequency. A station operating on 540 kHz also transmits a small amount of signal on 1080 (2 x 540) and so on. All transmitters radiate a small amount of harmonic signal under normal operating conditions. The FCC regulations specify only that harmonics be less than 1/10,000th as powerful as the main carrier (80 db below); in the case of a 50 kw'er, the station can legally then put as much as 5 watts into the antenna. Consequently the harmonic may be heard over quite a distance under favorable conditions without a violation of FCC regulations. The only cure is to loop out the undesired signal.
- b. Parasitic radiation on the otherhand is transmitted only by a defective or improperly tuned transmitter. Parasitic radiations usually appear on both sides of the station's frequency, often on split frequency. The audio is usually highly distorted and sounds almost like single sided modulation; it's usually impossible to detect a carrier with the receiver DPO in addition. Some of the most widely heard parasitic radiations in past years have been from WBT-1110 (radiation on 1205 and 1015), WJR-760 (radiation on 775 and 795), and CEL-740 (radiation on 743 and 737). Note that in most cases these spurious radiations occur in pairs and on frequencies an equal distance above and below the station frequency. Station engineers usually react with considerable scepticism when informed of this type of problem and often deny its existence out-of-hand; nevertheless these radiations usually disappear immediately after the station is notified.
- c. Sideband splash - the "thumping" and "banging" sounds heard on the edge of a local station especially when music is being played - is almost always legal sideband radiation. Sideband splash from powerful locals is almost always seemingly reduced when mechanical filters are added to the receiver because of improved skirt selectivity (See "S.S.B. Reception on the ECB with Mechanical Filters", DX NEWS, Summer, 1967 for further information). "Overmodulation" of a ECB transmitter is quite rare due to the limited nature of the archaic FCC regulations governing the amount of "splatter" allowed (See "Local Sideband Splash - How Much Is Too Much?", DX NEWS, February 17, 1968). Under rare conditions a transmitter band may suffer from modulation arcing which results in "splash" over much of the band (See "A Frequent but Rarely Discussed Cause of ECB Interference", DX NEWS, March 9, 1968).

## EXTERNAL MIXING

- a. Defective wiring and pipes can produce spurious signals and are responsible for many of the "spurs" experienced in large cities with several powerful stations. Figure 1 shows how this works here in Boston in the case of locals WBZ-1030 and WRYT-950. Somewhere a few miles to the East of WRYT's transmitter site there's a long piece of wire or piping with a defective soldering joint in it. This connection is corroded and behaves somewhat like the crystal in an old-time crystal receiver. The nonlinear properties of this junction cause sum and difference frequencies to be created; the wire or piping then acts like a longwire and radiates these spurious signals on a number of different frequencies. The sum frequency, 1620 kHz (= 950 + 1030), falls outside of the band by accident in this case; likewise so does

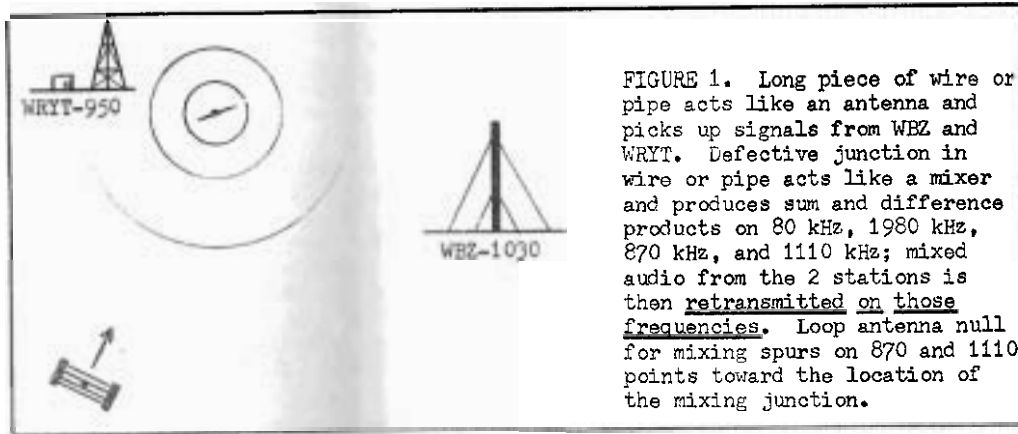


FIGURE 1. Long piece of wire or pipe acts like an antenna and picks up signals from WBZ and WRYT. Defective junction in wire or pipe acts like a mixer and produces sum and difference products on 80 kHz, 1980 kHz, 870 kHz, and 1110 kHz; mixed audio from the 2 stations is then retransmitted on those frequencies. Loop antenna null for mixing spurs on 870 and 1110 points toward the location of the mixing junction.

the difference frequency, 80 kHz (= 1030 - 950). But nonlinear junctions of this sort can also radiate considerable energy on combinations of the difference frequency and the original channel, in this case on 870 (= 950 - 80) and 1110 (=1030 + 80). On these two frequencies, 870 and 1110, a strong signal consisting of a mixture of the programs of WRYT and WBZ is audible every day. The final test that WRYT signs off at dusk the signals on 870 and 1110 vanish of course; both signals must be present at the mixing junction if the sums and differences are radiated. The mixing junction can be many miles distant and may radiate considerable power on combination frequencies in some cases. It is important to realize that this piece of defective conductor is actually transmitting just as if small transmitters on 870 and 1110 had been set up at the location. This means that the spurious signal will be nulled out when the loop antenna faces the direction of the mixing junction and not towards either of the transmitter sites. Since the mixing junction is retransmitting only a mixture of programming on each combination frequency, a check of the channel with a subaudible heterodyne (SAH) scope will show only a single heterodyne in spite of the fact that two programs are being heard. In some cases, particularly in rural areas, the DX'er may be able to track down the defective joint or connection with a portable radio; look for wire fences with insulated joints particularly. In urban areas there may be hundreds or thousands of these defective joints scattered around the city. In the case the DX'er can only adopt the same philosophical attitude he does towards other urban problems such as traffic congestion or air pollution. A loop antenna may be of limited help in nulling out this type of spurious radiation, depending upon just how bad the problem is.

- b. Receiving antennas can also have nonlinear connections of this type; for this reason all of the connections in a longwire must be soldered. A corroded connection in a longwire can produce an incredible number of spurious mixing products all over the dial; often this problem will seem to come and go if the "funny" connection is affected by the weather. Invest a few dollars in can of bottled gas and a soldering head and carefully solder all of the connections in your antenna if you suspect this to be the case.

## RECEIVER DEFECTS

- a. Crossmodulation is one of several types of spurious signals caused by overloading the receiver with too much signal. This type of spurious response shows as the transfer of some of the programming from a local to stations on nearby frequencies, especially on channels 10 and 20 kHz away. A local on 850 kHz would also be heard on 840 and 860 mixed in with the other stations on those channels. Cure for this and other defects due to overload is described later in the article.
- b. Birdies are a type of spurious response often mistaken for heterodynes from foreign stations by novice DX'ers. Heterodynes (birds) from stations on split frequencies are tones of a single fixed pitch; as you tune across a net the loudness of the tone will vary but not the pitch or audio frequency. Birdies, on the other hand, change pitch as the receiver is tuned along the dial; programming from a local station often is heard along with the whistle. This response is usually caused by overload of the mixer stage.
- c. Internal mixing produces spurs consisting of mixture of programs from local stations on the same sum and difference frequencies described under external mixing. Internal mixing is yet another symptom of receiver overload and it is important to be able to distinguish between spurs caused by internal and external mixing since the former can be eliminated whereas the latter are usually hopeless. Figures 1 and 2 outline two different ways to tell if a particular sum or difference spur is being generated internally or externally. If you have a loop, check to see where the spurious signal nulls out; if it is caused by external mixing the null will be in the direction of the mixing site. If, on the other hand, the spur is the result of overload in the receiver, the spurious response will vanish when the loop null is pointed towards either of the two local transmitters. A second check for the cause of mixing spurs makes use of the antenna trimmer control on the receiver. As the receiver is tuned to different parts of the

ANTENNA TRIMMER



(a) If the mixture of WEZ and WRYT audio's heard on 870 is the result of external mixing, the spur will peak with trimmer in same position as for a real signal on 870 kHz.

ANTENNA TRIMMER



(b) If, on the other hand, the spur is internal mixing, because it is generated in the receiver, it will be strongest with trimmer in position of WRYT/WEZ.

band, the antenna trimmer must be set to different positions to pick up signal. If a spur such as our 870 WEZ/WRYT case is caused by external



mixing, the spur will be peaked up all the way when the antenna trimmer is set in the same position it would be for a real signal on 870. If instead the spur is the result of internal mixing in the receiver caused by overload, the 870 spur would not peak at the position for 870 but would peak at the positions for 950 and 1030. Both of these tests make use of the fact that an external mixing spur behaves in all ways like a signal from a real transmitter operating from the location of the mixing junction.

- d. Images are a special kind of spurious response which results from a basic flaw in the design of most superheterodyne receivers (see ARRL handbook, etc., for details). Only those spurious responses which appear on channels separated by twice the receiver's intermediate frequency (usually  $2 \times 455 = 910$  kHz away) are images! Note that most of the top quality communications receivers used on the BCB (such as the HQ-180) while advertised as "double" or "triple conversion" actually switch out the additional stages of conversion on the MW band leaving a single stage of 455 kHz conversion on the front end; such a receiver is just as prone to images 910 kHz from the true frequency as a receiver costing a third the price. While images are not strictly an overload problem, the same cures used for clearing up overload problems also help eliminate images.

#### ELIMINATING SPURS CAUSED BY OVERLOAD

The four types of receiver-generated spurs listed above account for the majority of the spurious signals likely to be noted by most DX'ers. Fortunately all of these problems will be reduced if not totally eliminated by the same sorts of cures. If you have serious trouble with the sorts of spurious signals listed above try the following steps:

1. Check the tubes in the receiver, especially the RF and mixer tubes. Don't use a tube that checks out as questionable; replace weakish tubes with ones testing high in the "good" scale. Weak tubes can cause both crossmodulation and internal mixing.
2. Try shortening the antenna. Most modern receivers are quite sensitive on the BCB and many DX'ers mistakenly believe that the longer the antenna the better the reception will be. Up to a certain point this is true; beyond that, however, more antenna will simply overload the receiver and create spurious responses. Experiment with the length of the antenna until a reasonable compromise is reached.
3. Get your receiver realigned with particular attention to the RF and mixer stages; this is usually effective in reducing birdies and crossmodulation.
4. Install a mixer trimmer control in the receiver as described in "The Tracking Problem - And How to Cure It", DX NEWS, Spring 1968. Some otherwise well designed communications receivers suffer from large tracking errors on the BCB and a mixer trimmer is the most effective remedy. This receiver addition often cures the most persistent of problems caused by mixer overload.
5. If you must use an outside antenna, build one of the simple antenna tuners described in past issues of DX NEWS ("A Versatile Long-Wire Antenna Coupler", Winter 1967; "A Resonant Loop - An Excellent Antenna Coupler", Spring 1968). Antenna tuners of this type are particularly effective at eliminating true images and internal mixing spurs.
6. Replace your outdoor antenna with a good high Q loop antenna. The combination of the loop's sharp tuning properties and the lessened signal input level usually eliminates all forms of receiver-generated spurious responses. Loops are also very sensitive to locally-generated QRN.

We have often found it useful to prepare a chart showing all possible sums and differences for our local stations so that we can immediately check when we run across a weak station on a supposedly "clear" channel to make certain that it's not a mixing spur. A chart like this is particularly useful in large cities with many different combination spurs. For the sake of illustration we'll only consider 4 of our 10 Boston area locals. Lay out a checkerboard as shown below for all of the locals you want to include. Next double the frequencies of the stations; the

	WRKO- 680	WRZ- 1030	WCRB- 1330	WMEX- 1510
WRKO- 680	680 harmonic 1590 = 680 + 910 image			
WRZ- 1030	(350) 1380 = 350 + 1030 mixing spur			
WCRB- 1330	650 = 1330 - 680 mixing spur	(300) 730 = 1030 - 300 mixing spur		
WMEX- 1510	830 = 1510 - 680 mixing spur	(480) 550 = 1030 - 480 mixing spur	(180) 1150 = 1330 - 180 mixing spur	

Doubled frequencies are for the harmonics. In this list only WRKO's harmonics will be heard on the band, on 1360, and WRKO alone will be heard on 1590 since this is not a combination type of spur. Now add 910 kHz (assuming you have a 455 kHz IF) to each of the frequencies; this shows where true images will appear (of course, just WRKO programming will be heard on this spur). Now we will consider the sum and difference frequencies as would arise from either internal or external mixing. Subtract each pair of frequencies; if the differences fall in the BCB you can expect a mixing spur on those channels (one carrier with a mixture of the programs from the two stations); in this case WRKO combines with WCRB and WMEX to give differences that fall within the band (650 and 830). If the differences fall outside the band (150 = 1030 - 680, for example), put them down in parentheses. Now go through and add and subtract the difference frequencies in parentheses to each of them. If you generate a new frequency (1380 = 1030 + 350, for example), mark it down. Also go through and add the frequencies of the stations on the bottom of the board. If the sums fall in the band mark them down also (in this case none do). In this way you will be able to build up a complete table showing where to expect harmonics, images, and sum-and-difference products from mixing. In the example above you can then expect to encounter the following spurs:

550 Mixture of WRZ and WMEX programs  
650 Mixture of WRKO and WCRB programs  
730 Mixture of WRZ and WCRB programs  
830 Mixture of WRKO and WMEX programs  
1150 Mixture of WCRB and WMEX programs  
1360 WRKO harmonic  
1380 Mixture of WRKO and WRZ  
1590 WRKO image

In some cases it is possible for two different pairs of stations to produce sums on the same channel; this produces a jumble of audio from all 4 stations and shows up as 2 distinct carriers on an SAH display.

VERIE, SIGNERS

A - K. Lyon	F - J. Sampson	1090	W B Z B	W. T. Boone
B - W. Heinen	G - A. Merriman		W Q I K	D. Jones, CE
C - R. Johanns	H - C. Reno	1110	C HqQ T	u/u
D - J. Javetski	I - D. Kaskey	1140	W R V A	J. B. Tansey
E - J. Ross	J - E. Cooper	1150	W T Y C	E. L. B rwell, GM, CE
540 W Y N N	M. W. Pell, CE	G	W C U E	H. Niederkofler, CE
550 W D B M	W. Bruton, PD	F	C JnR C	J. Filtrau, GM
580 C K X R	R. J. Hall, GM	I	C K O C	L. Horton
610 W DqA F	C. A. Polermo, EnpSecyG		K K E Y	R. A. Hudson, CE
	W SqL S	F	K S L	M. J. Jones
	K O J M	I	1160 K VtO O	L. M. Nichols, CE
620 C KqC K	H. C. Dean	D	1170 K JqN P	D. Nelson, GM
660 K F A R	D. Garrett, CE	I	1180 W H A M	A. Davis
710 W G B S	u/u	D		O. Law
	W UrF F	G	1190 W G K A	R. G. Neill II, CE
730 W AqC E	R. Frenkel, CE	ACJ	1250 W F A G	L. E. Gray, CE
	C KmA C	A		W T M A
	W J M W	G		H. L. Kramer, CE
	(M. Davis, MxD	G		W I P S
	(W. C. Mitchell, CE	G	1260 W FqB M	R. Flanders, CE
	K U R L	I		J. R. Marlowe, M
740 K R M G	D. C. Brown, A, XOp	G		H. McElvern Jr., CE
	W G S M	H	1270 C F G T	S. Cloutier, Trfc
770 W A B C	W. H. Loyd	H	1280 W Y V E	C. Allison, NxD, PD
780 W BqB M	P. B. Heyn, D, TechOps	C		C HfA M
	Barbados	H		u/u
	G. Taylor	H	1290 K TqR H	V. Beck, CE
800 W S V S	W. L. Willis Jr., GM	F	1300 K QzE E	u/u
	K D D D	I		W D O C
	J. Clark, PD	I	1310	G. Collins, GM
810 W Q I Z	D. W. Cubbison, VP	G	1330	D. Jackson, CE
830 W NqY C	M. K. Kunins, CE	A		W M L T
850 W KqI X	F. E. Houpt, CE	G		E. Hilliard, M
860 W S T H	J. Shelton, GM	F	1320 WfH HmO	W. Boyer, CE
900 C KqT S	B. Dewar, CE	WHI	1350 C K L B	W. C. Marchand, VP, TD
	W SfW N	G		K C K C
	C. C. Turner, CE	G		W. D. Detweiler, GM
910 K U R Y	N. Oberst, M	I	1360 W B A Y	E. J. Landreman, XSu
	W OfR D	AG	1370 W M H I	H. C. Fisher, CE
	R. G. Rylatt	H		K O K E
920 C K C Y	J. G. Rylatt	H		J. Furr
930 W LqL L	S. H. Jayson, PD	F	1380 K P O I	E. Lindemann, CE
940 K WqR C	(R. Steele	C		R. Vogler, CE
	(S. Grew	C	1390 C H O O	W. Jones, P
	Lynne Lien, M	G	1420 W R B L	J. Gamble, CE
960 W B R C	J. A. Hoyer, M, CE	G	1430 K K A T	E. Bizzell, CE
	C K W S	D	1470 W T Z E	F. A. Hess, GM
970 W Y P R	R. J. Barber, M	F	1480 W Y D K	W. R. Miller, CE
980 W A A A	L. C. King, CE	F	1500 W K B X	J. Smith, E
990 K T K T	P. M. Richardson, M	G	1520 W K B W	L. Fiedler
1000 W IqQ T	G. M. Scullin, GM	A	1530 W A A O	J. Williams, M
	W S P P	F		A. Lentz
	D. Borders, M	F	1540 K X E L	J. Dee
	W K D E	F		U. Gooding, CE
	T. J. Gray Jr., P	F	1550 W N T N	D. E. Lefebvre, CE
1010 W A B Z	Mrs. B. G. Varner, GM	F		W L U X
	H. B. Wright Jr., GM	F		G. H. Jaspert, GM
1050 W A C R	Jewel Miller	F		K O B Y
	T. Douglas, M	F	1560 W TqN S	A. L. Philabaun, CE
	W C M S	F		C. Smith, O, CE
	L. Higgins, M	F	1570 W T L K	H. P. Potts, GM
	W H N	H		C P O R
1070 C H O K	K. E. Moss, M	F		L. Morris
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	W E W O	F		

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