

dx news

the magazine of the National Radio Club



VOLUME 43

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NUMBER 20

" My first year in NRC has
been my best in five pre-
vious years of DX'ing!"
(R. Keeney, KS)

ON THE INSIDE.....

- "A-index" Graph - HQ
- Clippings

NEW MEMBERS

- * Albert D. Maizels, DDS; Suite 304, Columbia Medical Bldg., 1835 Eye St. NW, Washington, D.C.
- * Edward C. Paulsen, 6418 University Ave., Apt. 3, Middleton, WI 53562
- Harry J. Waldron, 201 Monroe Rd., Sarver, PA 16055

RENEWALS

B. Whaley, J. Tudenham, J. Callarman, A. Littek, K. Goldman, D. Spitzer.

FLASH TIPS & SUCHLIKE

- 3/1: KRYT-1530 (pardon our error on freq. of this in FT&S last issue-RJW) hrd by Bob Baker in Indiana and by Hansch in WI. KVER-1340 also hrd by Hansch.
- 3/8: WYVE-1280 hrd well by Mount in NJ.

ALSO: TEST from R. Million (TIKE? or TIRICA? both former calls) -625 in San Jose, Costa Rica hrd for brief periods within 0157-0249 by RGS, Mount & Starr w/ TT, and SS,EE,PP IDs by male & female annors. TEST listed in IRCA and WAS sent to HQ in time for last issue. Due to a variety of factors including its contradiction of unsolicited info from the station management indicated in last week's IDXD and to a vagueness of details and a request for anonymity by the member notifying us, we chose not to run this info. As it turns out the station management apparently abruptly altered the plans they had notified us about in favor of something similar to the TEST listing which appeared in IRCA. WE APOLOGISE to the membership for not running this item. We felt that a test after a week of pre-announced tests under the circumstances was of questionable value, and we are not overly fond of anonymous tips. We realize that we should have run it anyway, and voice any reservations we had at the time.

Dan Bartek notes that 2XW formerly on 1080 is now on 890 and 2YM-1410 is now 24 hours w/ 2kw. per Art Cushen over R. Nederland's "DX JUKE BOX".

NOTES &c FROM NJPC

WE ARE PLEASED TO ANNOUNCE THAT WE HAVE A NEW FLASH ALERT OPERATOR. He is DAN MYERS, of 2650 104th St., Toledo, OH 43611, who has also volunteered to pick up all records, cards etc. from former "FAS" mentor Carl Junker in Dayton. We wish to acknowledge some 30 members who volunteered to take over FAS and to thank you all, even tho' naming names would be too lengthy a process. DAN was selected because of several factors, his proximity to CPC chairman Jerry Starr, his proximity to Carl Junker and his somewhat central location. Several other requests reached us before his, but all were either in the extreme East or were already doing club work.

Paul Wardell of Portland, OR is now WB7DES (Tech. class) and will be operating on 2 meters shortly. Congratulations to Paul, and lets have that info from you NRC hams mentioned a few issues back

editor: Alan Merriman
P.O. Box 6
Fairfax, VA. 22030

international dx digest

C. P. C. TEST SCHEDULE

WONDAY	MAR. 15	- 0200-0230	* WAFI-1560	- Middlesboro, KY	1000	D	NRC/IRCA
		- 0300-0330	* WKEX-1430	- Blacksburg, VA	1000	D	NRC
MONDAY	22	- 0005-0330	* WHUM-1240	- Reading, PA	1k/250	U	NRC
		- 0100-0200	* KSEK-1340	- Pittsburg, KS	1k/250	U	NRC/IRCA
MONDAY	APR. 01	- 0530-0630	* KBBV-1050	- Big Bear Lake, CA	250	D	IRCA
TUESDAY	02	-	* WRTA-1240	- Altoona, PA	1k/250	U	NRC
MONDAY	12	- 0600-0630	* KCVR-1570	- Lodi, CA	5000	D	IRCA
TUESDAY	13	- 0200-0400	* WEAQ- 790	- Eau Claire, WI	5000	U	NRC
EVERY MM		- 0100-0200	* WNAD- 640	- Norman, OK	1000	D	NRC

DETAILS:

- WAFI - Mx w/IDs every 2 min. V/s Doug Hammons, 812 Dorchester Ave., 40965. Arr.: Jim Hopkins.
- WKEX - TT (poss. PoP) & poss. code IDs. V/s John F. Osborne, CE; 400 Lark Ia., 24060. Arr.: Dave Schmidt.
- WHUM - PoP after 0300; voice IDs, steady tones, sweep tones, tone bursts, & code IDs. V/s J.K. Hodgkins, CE; Berkshire Towers, 19601. Arr.: David E. Fox.
- KSEK - Will mention IRCA; no other program details. V/s James D. Harbart, Box 610, 66762. Arr.: Cecil Weinstein.
- WNAD - Will be testing nearly every MM until further notice. Will use OC w/frequent voice IDs & occasional mx. Prepaid calls taken at (405) 329-0640. V/s Rob Sullivan, CE; 73069. Arr.: Ted Fleishaker. Has ANYBODY HRD THIS YET ??? - RJE

NOTES &c FROM NJPC

The European DX Council's Publications Committee (Chairman Frits Mulder) will soon have a new list of all known publications on or related to DX subjects. This will include all NRC publications as well as many others. Enquiries should be addressed to Mr. Mulder at Patrijsstraat 13, Brummen 6521, NETHERLANDS.

Be sure to check the publication schedule listed in the Musings section for the remainder of this volume year. The originally-planned sked was re-arranged slightly due to a conflict which would have prevented us HQ-types from getting to Louisville or from publishing one scheduled bulletin. Now we can do both, hi. Newer members especially note, as we received not a few cards asking where bulletins were that we never published due to skip weeks, even though the issue numbers should have shown that, during the past 6 months.

This is a 20-page issue, simply because we don't have enough useful material to go to 24. We have filler, but we only use this to round out to an even multiple of 4. Otherwise, we hold it.

Phone 703-354-2135 Before 2200 ELT *All Times Are GMT *Deadlines Are Friday*

- New stations, changes, skeds, etc.
- BOLIVIA Radio Mensaje, Casilla 1, Montero, Santa Cruz is a new station operating on 730 khz with 1 kw. (DSWCI)
- GERMAN DEMOCRATIC REPUBLIC The Berliner Rundfunk station at Reichenbach is now on 1385 khz, ex-917. Radio DDR I has a new station at Kenla on 557 khz. Dresden on 1043 khz is off the air. (DSWCI)
- HONDURAS A new station Radio Nacional on 890 khz was supposed to be on the air by mid-February. (SCDX)
- JORDAN The new 1200 kw station in Ajlun region is operating on 912 khz. Supposedly has been on since October 29, 1975. (DSWCI) Unless this one is directional we should have a good shot at a new country. (ED)
- LORD HOWE ISLAND Radio Lord Howe Island is a new station operating on 1490 khz with 12 watts. (NZRDXL)
- MOZAMBIQUE Lourenco Marques has now been officially renamed Ma Phuto. (SCDX)
- SPAIN New RNE stations are Almeria on 638 khz with 10 kw; Logrono on 728 khz with 10 kw; Valencia and Caceres on 773 khz, both with 50 kw; Orense on 773 khz with 10 kw; Pontevedra on 854 khz with 10 kw. Over half of the AM stations in Spain are going to move to FM in the next few years. (NZRDXL)
- SWEDEN Radio Sweden is scheduled to Europe on 1178 khz as follows: 2200-2230 in Russian; 2230-2300 in German; 2300-2330 in English; 2330-2400 in Swedish.
- And now, whats been heard.
- 529 -ALGERIA Ain Beida excellent 2/27 from 0545-0603 w/AA mx, amnts. They were on earlier than the WRTH shows. (Hutton) This is now NSP methinks. (ED) * At fair level w/man in AA, hetted by CW beacon "YCH" & MCW beacon "NZ", 2242, 2/24. At good strength w/sing-song AA talk, 0407, 2/25. (Connelly)
- 555 -ST KITTS ZIZ Basseterre 0010 vy good w/Carib mx, 0011 OM ID, power, frequency on 2/29. (Straus)
- 575 -ALGERIA Bechar 2233-45 AA chants, harder copy than 548 but believe // at this hour on 2/28. (Straus)
- ALGERIA/COSTA RICA Bechar and "Cucu" battling it out here w/a rough low het resulting, 0410, 2/25. (Connelly)
- 580 -PUERTO RICO (Tentative) WKAQ; this hrd poorly w/much fading at 0550 w/some kind of LA mx, male ancr making possible R. El Commandante ID on 2/29. (Barnes)
- 584 -SPAIN RNE Madrid potent w/SS talk, inst disco-rock was interspersed, 0437 on 3/1. (Connelly)
- 593 -MOROCCO Oujda A 2355 w/AA chants, fair, 1st time, 2/28. (Straus)
- 595 -DOMINICA R. Dominica 0555 prior to WRTH s/on 0600, s/off at 0600 w/"till 6 o'clock in the morning", 0601 power off. (Straus)
- 620 -DOMINICAN REPUBLIC HISD R. TV Dominicana 0943 ID, SS mx, OM ancr, good u/WVJN on 3/1. (Straus)
- 647 -ENGLAND BBC Daventry peaking up well o/WSM slop w/discussion of African affairs 0413, 2/25. (Connelly)
- 655 -EL SALVADOR YSS San Salvador good w/cl mx on the West Beverage, in the mud on the North Beverage; bad summer-like QRN condx, 0445, 3/3. (Connelly)
- 556 -SPANISH SAHARA (Morocco now? ED) Perhaps this was the stn hrd here 2249-2347 2/28 at various times. Fair sig w/WNBC splash. Definite AA chanting hrd at 2345 but faded out 2347. Never noticed any reports of AA on this channel but w/Sahara in Moroccan hands its possible. (Eckman) I saw somewhere that this stn is now carrying the Moroccan program with the exception of RNE News at 2100. (ED)
- 665 -PORTUGAL Lisbon hrd w/excellent sig 2233 2/28 w/mx and PP talk. No trouble from WNBC at this time. (Eckman) * Good w/PP talkshow-2 male voices, one the talkmaster, the other a phone caller at home, 2245, 2/24. At fair level w/ acoustic guitar mx, 0428, 2/25. (Connelly)

04

- 670 -CUBA CMKP, hrd well w/some fading, some QRM from WMAQ, w/long selections of Muzak; female ancr announces R. something Nacional desde La Habana at 0601 on 2/29. (Barnes)
- 683 -SPAIN RNE Seville good sig at 0216 3/1 w/SS talk and mx. Seemed to be a fast SAH on them as noted on S-meter. Yugoslavia is 400 kw at the moment but not sked on till 0300. SAH gone by 0230 recheck. (Eckman) The Yugoslav here is supposed to up power to 2000 kw-perhaps testing new xmtr? (ED) * Fair in WRKO splash w/man in SS interspersed w/mx, 0425, 2/25. (Connelly)
- 719 -PORTUGAL Norte vy strong w/FP mx 2247 2/28. Considerably stronger than 720 domestics at this time. Vy good nite for Iberians. (Eckman)
-PORTUGAL/TUNISIA Norte was usually atop, at potent local-like strength, w/FP phone-in talkshow similar to the one noted on 665; AA chanting noticeable u/. Sfax w/chanting dominated briefly during a fade on Norte, 2247, 2/24. (Connelly)
- 720 -COLOMBIA Emisoras Unidas, Barranquilla 0025 SS mx, anmts, supermarket ad, good on 2/29. (Straus)
- 725 -SURINAM SRS Paramaribo vy strong w/man in Asiatic language, 2251, 2/24. (Con)
- 728 -EAST GERMANY Berlin 2250 vy low level, OM GG talk, heavy Surinam QRM 2/28.
- 737 -SPAIN Barcelona 0650 fair w/SS vocals, 90% sure of 737//773//683 at this hour, spent much time on trying to make sure, 773 best, 683 poorest, 737 still audible 0745 check 3/1. (Straus, last 2)
- 746 -HOLLAND Lopik I 2300 best ever w/lite pops, still going 2355 check 2/28. (Straus)
-UPPER VOLTA Ouagadougou peaked up at a fair level at 2349 and 2352 on 3/2 w/AA style mx (female vocal), then man in FF. Abruptly disappeared at 0000. (Connelly) 0000 is sked s/off. (ED) * Believed to be the one w/unusual mx 2233 2/28. Fair sig. Dakar strong at this time. (Eckman)
- 764 -SENEGAL Dakar strong w/FF talk 2230 2/28. Noted some LA mx later on this one. Don't be fooled by this type mx on West Africans; I've hrd it on SW too. (Eckman) * Strong, man in AA dialect, 2252, 2/24. (Connelly)
- 770 -COLOMBIA R. Tequendama, Bogota 0640 w/lite LA vocals, OM anmts, good w/WABC off incredibly, ID and TC at 0647 3/1. (Straus)
- 770A -UNID Strong het of about 400 hz against WABC noted on car radio (at Route 128 in Waltham) at local sunset, 2215, 3/2. Dakar-764 was strong at the time. (Con)
- 773 -SPAIN RNE San Sebastian 0650-0700 OM SS talk, SS vocals, mentions of Barcelona, Valencia, seemed like a "wake-up" type pgm, vy good w/WABC off 3/1. (Str)
- 782 -PORTUGAL Best sig ever on this one for me 2300 2/28. Tuned in at 2259 while they were running long tones at ca. 5 second intervals. One short pip 2300 followed by ID and short tune. (Eckman) * Miramar 2305 fair w/OM, PP anmts on 2/28. (Straus)
-UNID Portugal is supposed to be off, but a strong CSB9-type sig was noted here during a low-band opening which produced strong sigs from Iberia and North Africa, but mediocre reception from higher latitudes. This would make DDR unlikely. Mx was US C&W: Ray Price or Charlie Pride, 2253, 2/24. (Connelly)
- 818 -ANDORRA Sud Radio apparent news report w/2 FF OMs 0705 w/nx about France on 3/1. (Straus)
-MOROCCO Rabat I ex sig 2310 OM AA nx?, blocking out 820 2/28. (Straus) * Strong w/AA chanting 2234 2/28. No sign of Andorra at this time. (Eckman) * Fair, barely atop a jumble of other stns, w/male AA vocal and flute accompaniment, 2254, 2/24. Heavy unid OC here, likely Andorra, 0435, 2/25. (Connelly)
- 825 -COSTA RICA San Jose, R. Titania was clearly dominant w/slow SS male vocal, then woman w/Titania ID well o/R. Peninsula, Panama which had man in fast SS-low audible het resulting, 0455, 3/3. (Connelly)
- 827 -LIBYA (?) Perhaps this is the one w/vy good sig 2235 2/28 w/AA chanting. Apparently not //818 which probably excludes the Moroccan and also its supposedly off the air. (Eckman)
-MOROCCO Oujda B 2315 w/AA mx, fair 2/28 1st time. (Straus) See above. Did you by chance check 818 for //? Morocco supposedly off the air here. (ED)
- 834 -BELIZE R. Belize at good level w/big-band jazz, 0437, 2/25. (Connelly)
- 854 -SPAIN Murcia good at 2256 2/28 w/SS talk. Usually poor audio here; today was no exception. (Eckman) (Hagan)
- 860 -MEXICO XEMO 0700-0800 w/religious mx and few anmts. IDs at about 20 minute intervals not usually on the hour or half hour. Fair to good strength. 2/23.
- 872 -SPAIN Zaragoza weak SS vocals, pre WWL f/in 2327 on 2/28. (Straus) (Eckman)
- 885 -MONTSERRAT ZJB Plymouth strong w/EE nx 0001 2/29. Little slop from WCBS.
- 935 -MOROCCO Agadir vy good w/OM AA harangue 2330, 0000 2/28. (Straus)
- SOME OF YOU ARE USING ABBREVIATIONS IN YOUR REPORTS THAT AREN'T STANDARD. DON'T!!!!
- 1000 -COLOMBIA R. Miramar, Cartagena vy good sig 0740-50, SS MoR vocals, SS OM talk 3/1. (Straus)
- 1015 -EL SALVADOR YSC hrd on 2/23 at 0403 w/male ancr giving nx about Guatemala and R. Internacional ID. (Barnes)
- 1016 -WEST GERMANY Mainz strong w/mx (non-AA type) 0211 3/1. No sign of Istanbul at the time. (Eckman)
-WEST GERMANY/TURKEY Mainz w/light Jazz usually atop Istanbul, which had a female vocal. Pronounced SAH of 2.7 hz. "Bodacious" splash from Joe Green helicopter traffic report on WBZ. At 2225, 2/24. (Connelly)
- 1034 -UNID TA If Portugal is off, Italy must be running early here as a slow male vocal in a Romance language was noted here, fair in WBZ slop, at 0330, 3/3. Only southern TA paths were viable at the time. (Connelly)
-PORTUGAL Item in #17 was a typo-my comments do apply to 1034 not 1043. Dario says RCP is off; in that case I have an unid recorded from 0531 to 0539 2/27 playing light mx and ancr in unid language. Also a moderate SAH (approx 5 hz) present. (Hutton) I wouldn't be surprised is RCP is now back on-possibly carrying Emisora Nacional pgms. (ED)
- 1038 -UNID (Likely Iraq) Carrier present here, but too much WBZ to permit audio extraction, 2200, 2/25. (Connelly)
- 1070 -COLOMBIA Emisora Atlantico, w/"Atlantico Spectacular", 0755, meter read 70/100 db at 8 kc on R-390A, 3/1. (Straus)
- 1080 -HAWAII KIOE, K-108 on air 24 hours w/rock programming. (Maguire)
- 1088 -ENGLAND/ALBANIA Crowborough w/man in EE o/u presumed Albania (woman talking), at fair level w/some WBAL slop, SAH of 0.8 hz noted, 2219, 2/24. (Connelly)
- 1097 -CZECHOSLOVAKIA Bratislava apparently the one w/cl mx 0427 2/28. Nx by OM in unid language 0430. Prague strong on 1286 at this time. (Eckman)
- 1124 -UNID Good carrier here 0328 plus 2/28 apparently not Zagreb as I've heard them w/IS at this time in September. Mx of some sort hrd 0335 but wasn't able to ID language during voice anmts. Maybe Spain but mx didn't sound SS. (Eckman) New WRTH show only relatively low powered (20 kw) Yugoslav stn on this channel now. Maybe the high powered one that was here in the past has now moved back to 1133? (ED)
- 1187 -INTERNATIONAL WATERS Caroline poor/fair w/rock o/presumed Guatemala 1188; mean het resulting, both badly splashed by CHTN/WOWO, 0415, 3/3. (Connelly)
- 1196 -GERMAN FEDERAL REPUBLIC VOA Munich fair in CHTN/WOWO splash w/man in EE followed by barbershop quartet style vocal, 0352, 2/25. (Connelly)
-MOROCCO Aga dir 3 hrd w/good sig 0437 2/28 w/talk apparently in AA. Unusual in that this isn't supposed to be an AA service, but doubt it was VOA. (Eckman) *Vy harsh AA chants and wailing 2340, some AA talk between wails, in clear on 2/28, many Moroccans hrd this date, then read in paper that this was day Spain officially ceded Spanish Sahara so they were all excited. (Straus)
- 1205 -FRANCE Bordeaux strong w/cl piano mx, then FF talk, 2212, 2/24. (Connelly)
- 1214 -GREAT BRITAIN BBC at fair level w/some WCAU QRM w/slow "torch song" type female vocal, then man in EE, 2228, 2/24. (Connelly)
- 1232 -MOROCCO Tanger I seemed to be the one w/AA sounding mx 2239 2/28. Poor studio but strong het. Noted gone by 2300. (Eckman) (Connelly)
- 1265 -ST KITTS R. Paradise fair to good w/man in EE (religious program), 2337, 2/24.
- 1268 -GERMAN FEDERAL REPUBLIC DLF Neumunster hrd w/fair sig apparently //1538 which was excellent at this time. R. Paradise was no problem, 0210, 3/1. (Eckman)
- 1286 -CZECHOSLOVAKIA Prague hrd w/strong sig 0331 2/28. Apparent s/on at 0330 as wasn't noted 2 mins previous to that. Much weaker on 3/1 w/carrier on at 0328 but no audio discernable at 0330. (Eckman)
-UNID (Czechoslovakia likely) Apparent OC at fair to good level in CJMS splash; if modulated it was less than 30%, 0400, 2/25. (Connelly)
- 1358 -GERMAN DEMOCRATIC REPUBLIC Berlin-Koepenick apparently the one here w/some lite mx breaking thru the strong het 0308 3/1. Other high-band Germans were xlt at this time. (Eckman)
- 1375 -ST PIERRE & MIQUELON ORTF good w/OC 0900-0930 3/1. S/on w/La Marseillaise a few seconds after 0930 then into FF pgm, probably news. (Hagan)
- 1394 -UNID OC noted 1235 3/1 seemingly too weak for Tirana considering general band condx. Gone soon afterwards. Anyone else notice this one? (Eckman)
- 1421 -GERMAN FEDERAL REPUBLIC Saarbrucken assumed to be the one w/strong het 0218, 3/1. No audio discernable. (Eckman)
- THERE'S STILL SOME GOOD DX TO BE HAD - NOW IS THE TIME FOR EAST COASTERS TO START LOOKING FOR DU'S AND DEEP SOUTH AMERICANS. REPORT WHAT YOU ARE HEARING TO IDXD !!!!

1439 -LUXEMBOURG Marnach strong 0005 w/w8 w/EE rock mx. VO5 Shampoo spot at 0006 giving a London mailing address by British accented ancr. Interestingly enough hrd exact same ad on 6090// the next evening when Luxembourg was much poorer on 1439. Strong het accompanied signal. (Eckman) * At poor/fair level w/WENE/WNJR/CFGO/WAAB slop; had EE teenybop show w/fast-talk ancr who rattled off effusive drive about contests, rock stars, etc., 2333, 2/24. (Connelly)

1457 -ALBANIA Durres hrd w/R. Peking relay w/East is Red 0400 2/28. Good sig. (Eck)
1466 -MONACO Monte Carlo the strongest high-band TA, much better than 1586, w/GG female rock vocal, 2237, 2/24. Good again w/EE religious pgm, man gave address in London, 2325, 2/24. (Connelly) (Eckman)

-UNID Another OC seemingly too weak for Monte Carlo noted 0324 2/28. May have had audio but sig too weak to notice any. Monaco s/on at 0440 was vy strong.
1475 -AUSTRIA Wein good w/GG OM giving nx 0004 2/28. (Eckman) * (Tentative) Man in a Germanic-sounding language noted here at a poor to fair level in bad WLAM/CFOX/WSAR/CHRD slop, 0402, 2/25. (Connelly)

1500 -NETHERLANDS ANTILLES PJ09-2 R. Hoyer vy good 0900 3/1 s/on in DD. Completely covering everything on the channel. (Hagan)
1525 -CHINA (?) Urumchi apparently the one w/poor carrier 2311-2330 2/28. Woman ancr discernable at 2325, but couldn't ID language. (Eckman)

1529 -VATICAN STATE At fair level w/orchestral mx, 2238, 2/24. (Connelly)
1538 -GERMAN FEDERAL REPUBLIC DLF Mainflingen strong w/lite mx and GG talk 0208 on 3/1. Strong het also. (Eckman)
-UNID Vy good 0200 3/1 w/German musical pgm. Probably DLF. (Hagan)

1554 -FRANCE Nice stronger than 1586 w/slow vocal, apparently attenuation greater on northerly paths, 0453, 3/1. Similar semi-auroral condx on 3/3 saw Nice much better than Langenberg, considerable QSB on both sigs at 0240. Low band also showed auroral effects; the only readable TAs were from Iberia and North Africa, 845-Italy present only as a carrier w/BFO on. (Connelly) * Excellent 2/27 0330-0400 w/FF talk and mx. 4 pips at 0400 followed by 'IS' that I always hear on the hour on this one. (Eckman)

1586 -GERMAN FEDERAL REPUBLIC Langenberg at fair level w/heavy WQQW slop; pgm was choral mx more of a pop style than cl or religious, 2315, 2/24. (Connelly) * Excellent 0205 plus 3/1 //1602 (also w/ex sig). W/lite mx. Seems to break away from 1602 on the hour for nx but not positive. (Eckman)
1602 -GERMAN FEDERAL REPUBLIC Munich fair overall copy, strong carrier but horrendous WRRL splash; program on Munich, man in GG, 0503, 2/27. (Connelly)

A few veries

740 -MONTERRAT R. Antilles friendly EE letter, but no real verie statement. I sent EE report and tape and 2 IRCs. V/s: K.H. Ramota. (Keeney)
844 -GILBERT ISLANDS R. Tarawa finally in. Said I caught the last session of the House of Assembly. Signer: Bill Reiber, Broadcasting Engineer. Gave sked (their local time) as 6 to 8 AM; Noon to 2 PM; 6 to 10 PM. Ctry 56. (Maguire)
870 -PUERTO RICO WHQA nice v/l in EE for taped report. V/s Carmina Mendez Miller, promised CM when available. (Keeney)
1550 -AUSTRALIA 4QD Emerald, Qsld. QSL card for my first report. 2nd report verified in 5 weeks. 1st report in 8 months. (Maguire)

The reporters for this issue

Clifford BARNES - Bellaire, Texas Eversonic ES-9500, 65' longwire
Mark CONNELLY - Sudbury, Massachusetts R390A/URR, 2 1200' beverages w/phasing unit.
Richard ECKMAN - Philadelphia, Pennsylvania BC946/453, Sanserino loop
Jim HAGAN - Palm Bay, Florida Galaxy R-530, 8' vertical, 42" ferrite loop
Chuck HUTTON - Decatur, Georgia R388/URR, Sanserino loop
Rob KEENEY - Lawrence, Kansas HQ-180, SM-2
Norm MAGUIRE - Honolulu, Hawaii HQ-180, Sanserino loop
Elliot STRAUS - Asbury Park, New Jersey R390A, 115' longwire, SM-2
DSWCI - Danish Shortwave Clubs International
NZRDXL - New Zealand Radio DX League
SCDX - Sweden Calling DXers
PUERTO RICO New station at San Juan on 1030 knz has been granted WKZE. (Broadcasting)

Thats it. -Support is pretty good and DX seems to be pretty good - at least in spots. If you are DXing, let us know what you are hearing. 73 - DX

DOMESTIC DIGEST



editor.. Wes Boyd
980 W. Liberty
Girard, Ohio 44420

Lotsa stuff this time gang, so right to it! changes

- 670 KBOI ID Noted s/off 0237 after relig. (WH)
690 KGGF KS daily s/off is 0103 per verie, so is 0600 (0700)-0103 (WH)
780 WAVA VA is to drop nitecap in favor of all news, per nitecap net, but date/time unknown (Walker) Nitecap net on a daytimer???--HWB
1110 WZAM VA NEW Norfolk station w/ ET/OC 2/21 1408-1505+, IDs near the top of the hour (Alan) Shame on you, hearing a domestic!!--HWB

- r c's
3rd. TUE: KBRX 1350 (0125-0140 per verie, CHANGE!!) (RLK)
4th. MM: KAMA 1060 & WCCR 1580 (RA) WFTR 1450 (MPO)
4th. TUE: WFTR 1450 (hrd, 0100, on anncd. f/c) (HJH)
4th. THU: WJDY 1470 (hrd, 0019, possible ET, or f/c) (HJH)
4th. FRI: KSIW 1450 (RLK)
1st. MM: KGHL 790--KBTA 1340--KVSL 1450 (RLK)

Now some newies...
4th. MM: KICK 1340 Mo on anncd. f/c 0350-0400 (JVS)
1st. TUE: KSLV 1240 Co 3rd. month in a row, 0200-0215 w/ TT (RLK)
UNID 1400 ?? Someone w/ possible f/c, garbled ID 0215, then a code ID seeming KXIA, or K?IA! DF: NE/SW... (NZ)

...TEST RESULTS:....
First a note that WSYB 1380 wasn't on to test on 2/23 as CE just got out of hospital, but he was on for 3/1 test!! (CH)

- 1080 WEWO Hrd: (KA--CH--JVS--RLK--Starr--RA--KDF--MPO--WH--BULL--SS.)
1090 KKYN Hrd: (WH--KDF)(SS)
1240 CJRW Not Hrd: (RA--CH--Alan--etc.)
1370 WFKD Hrd: (JWB--KA) (RLK)
WZYQ Not Hrd: (KA--KA--WH--JWB--etc.) YES, this was on!!
1580 KTKR Not Hrd: (KA--CH--) Hrd: (KA--JVS--Alan--MPO--Starr--RLK--SS)
KWIP Hrd: (KDF--WH--SS)

- 1300 WXLR Not hrd: (JS) Hrd: (HWB) I GOTCHA', Finally!--HWB
1340 KVBR Hrd: (Ross--Dr. Tom--RLK--SS)Not Hrd: (CH)(JWB)
1380 WSYB Hrd: (FD--HWB--Silly--Starr--CH--Dr. Tom--KA--SS)Not Hrd: (Ross) Tent: (NZ--RLK--) Yes, you guys did hear it!--HWB
1530 KRYT Hrd: (JWB--Dr. Tom--RLK--Ross--CH--KA--Starr--HWB--Silly--SS)
1570 WPEP Hrd: (Dr. Tom--HJH) Forgot about it: (HWB)

sunset & evening(or the "Greensboro report"...)
730 WPMC NC 2/21 Finally, my old home town, 1800 s/off as "all hit country mx" (KA)

- 1300 WKCY VA 2/17 Wx 1755-1757, into 1759 s/off w/ philosophical message of some type, very inspiring--SNORE,SNORE!! (KA)
1530 WTTI GA 2/17 U/ WCKY 1818 w/ promo, then gone forever (KA) Try any MM after 0100, he's an NSP daytimer, almost!--HWB
1570 WSSA GA 2/27 Atop 1815 1/2 s/off w/ full station details (KA)

midnight to sunrise

First, CH noted NSPers, WABC 770, WCRB 880, & KMOX 1120 off most of MM 3/1, also--WABC 770 was off MM 2/23. From SS in Ft. Wayne..a logging of an unid EEr, u/ the SSer, u/ WOAI 1200 about 0100 on 3/1..no IDs or ads, just EE yak between records. Not there 0400+!! Not much there to start with, so I'd guess a college carrier current station, can anyone help on this--HWB

- 610 WDAF MO 2/23 Alone 0200 w/ nx from AI; & "Spirit of KC" stuff (KA)
740 WPAQ NC 2/23 ET, guitar mx,OC & relig. stuff, C245-0300+ (MPO)
810 WYRE MD 2/23 On ET 0114-0125+ w/ RR (KA) Ditto 0200+ (CH)
900 WKXD TN 3/1 Noted at 0600 s/on using "Revelie" (RLK)

- 940 KFRF CA 2/23 Finally, ending radio play 0228, & "KAY-FREE" ID, ments. "you're bicentennial station" (RLK)
- 960 CFAC AB 2/23 Noted 0213 w/ jx ID, then C&W mx--province #7 (MPO)
- 970 WWSW PA 2/23 This w/ ID 0221, then MOR mx, WEBR was off (MPO)
- 1060 WHFB MI 2/23 ET-TT-OC 0025, ID 0026, then more TT 0035+ (MPO)
- 1120 KPNW OR 3/1 U/ KMOX OC w/ relig. stuff 0221 (RLK)
- 1140 WQBA FL 3/1 Outta weak OC w/ full ID 0444, nothing else (RLK)
- 1220 CJOC AB 2/22 This ANing w/ C&W, IDs as "Sea-Jock" (WH)
- 1250 WREN KS 2/23 Good level 0233-0250, WDAE QRM, no ads, MOR mx (KA)
- 1280 KSOX AR 2/22 Found this on w/ Pop 0158-0203+, varied TTs (WH)
- 1290 CJBK ON 2/23 News, then local wx, to RR at 0235 (SW)
- 1330 WFBC SC 2/21 Nx, then "Greenville-Spartanburg wx" 0135 (SW)
- 1370 KEEN CA 2/23 TENT.--BBC nx relay, garbled ID in 0300 s/off sez to return 0530 (time zone unknown, suspect PST), sez. 5Kw, & SSB (WH)
- 1380 KGMS CA 3/1 Noted this at 0307 w/ s/off anncd. & SSB (RLK)
WBNX NY 3/1 Hrd. 0414 w/ "black relig." (RLK)
- +1400 KWON ?? 2/22 This on anncd. f/c 0121-0130 w/ TT & lotsa IDs (WH)
- *1420 WBSW MA 2/22 W/ weather report, then into s/off at 0103 (SW)
- 1450 WSNO VT 2/25 Way in the mud, few WORK IDs 0110 (the FM call), runs HIT PARADE programming (HJH)
- 1490 WBCB PA 2/21 ID noted 0200; news...mixing w/ WPOR (SW)
WPOR ME 2/21 Good at times; C&W mx, full ID 0200 (SW)
- 1510 WLAC MA 2/23 On ET-TT-MX, ID c/ WLAC 0213 (WH) Ditto--0000+ (FS)
- 1520 WKBW NY 2/23 Heard an ID from this one at 0413 (Young)
- 1530 WTTI GA 2/23 DJ Mike Murphy at 0407, ID as 10Kw at 0409 (Young)
- 1550 UNID ?? 3/3 Super Strong, came on 0113, lotsa TTs & OC. Played a few tunes, went off 0209, no IDs #\$\$!@?/+ (Starr)
CBE ON 2/23 Noted s/on at 0500, then news in EE (Young)
KOKA LA 2/23 This w/ s/on 0501, right after CBE (Young)
- 1570 WTCL OH 2/28 Loud ET-TT-MX- 0100+, this has decided to do ETs during hours of the last 2 tests on 1570.. no WPEP hrd. (Starr)
- 1580 WJVA IN 2/23 Noted on ET between 0300-0317, during the sked KGTR DX. Was hrd. by (Alan--CH--KA--RLK--JVS)
- 1590 UNID ?? 3/1 Strange ET w/ TT-RR MX 0105-0135+! No IDs, maybe WGOE at it again??? (RLK)
- 1600 KCRG IA 2/23 ANing, and atop freq. (Starr) Tis NSP now!--HWB
CHNR ON 2/26 Stumbled upon this by accident, fair u/ WWRL 0045 w/ wx & C&W mx (HJB)

REPORTERS:::

NZ	Neil Zank	Lincoln, NE	Sony TFM 715W/HQ160 SM
Young	James Young	Wrightwood, CA	HQ180-HQ100-NC400 LW & loop
Walker	Bob Walker	Westport, Ky	
SW	Sharon Waterman	Southwick, MA	HA600 LW
Dr. Tom	Tom Williamson	Guelph, ON	HQ180/DX150 SM/LW
SS	Scott Simpson	Ft. Wayne, IN	RR90A SM
JVS	John Sommer	Ft. Wayne, IN	HA600 Loop
MPO	Mike O'Shea	Buffalo, NY	HA600 LW
RLK	Bob Keeney	Lawrence, KS	HQ180 SM
CH	Craig Healey	Cumberland, RI	
WH	Wayne Heinen	Colo Spngs., Co	
HJH	Harry Hayes	Gouldsboro, PA	Zenith T-0 SM
KDF	Karl 4th.	Villa Park, Ill.	HQ160 SM
FD	Frank Preston	Dailey, Ct.	HQ180 Looped
BULL	Tom Bull	Washington, DC	HQ180 SM
Alan	Alan Whazzhisname	Fairfax, Va.	receiver & antenna
JWB	Joe Brauner	Punxsutawney, Pa	SX99/LW A2515/Loop
KA	Kelly Andrews	Greensboro, NC	SX99 LW Loop
RA	Ray Arruda	New Bedford, Ma	SX122/ TRF SM

And to prove he does exist...DAN MYERS of Toledo called to report that he hrd. CKCB 1400 ON on 2/24 w/ RR & CKCB/CKBB IDs at 1924. Ain't that great!

Silly	John Silliman	Girard, Oh	Zenith T-0
Starr	Jerry Starr	Hubbard, Oh	HQ180 Loop
HWB	"ye Ed"	Girard, Oh	HQ180 Loop

Thats it group, hope I didn't leave anyone out this time around!! I owe letters/tapes to several of you, hang in there---I'll get to them sometime before Christmas!!

musings of the members

5 Anthony St.

Provincetown, MA. 02657

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

BRUCE BOOMER - 108 Norma Avenue - Nutter Fort, West Virginia - 26301

It's been a couple months since I've checked in so the time is ripe to Muse. Going back to ancient days, Dec. yielded two new states- KLUC-1140 Nev. on the 12/15 TEST & KTWO-1030 Wyo. from 1:32-2am s/off on 12/29. Bill Swiger & I put up a special temporary LW to bag KLUC. Jan. was pretty much a failure DX-wise & most of Feb. was spent in traveling to Atlanta & Florida for job hunting which also was a fiasco. I sure picked a bad time to graduate from college. (You shoulda DXed more this semester, Bruce - you'd then have graduated NEXT year!-ERG) I did finally manage to meet Karl Jeter in Atlanta & saw more BCB QSLs at one time than ever before. We noticed that WYZE-1480 has apparently dropped c/w for an oldies format. In the news dept.: KTWO was supposed to go 50kw on 1/26 according to the GE. Re: Turks & Caicos in Harry Helms' Muse 2/23, I heard the NASWA test on SW & through the QRM the announcer mentioned 1,500w on 1550, so I assume the station is on the air. The SW station has always operated on a very irregular sked. The most interesting bit of info to me in the new WRTN is the mention of R. Cayman on 1555 w/10kw. The frequency is bad w/Nice on 1554 but it seems like RFS or someone should have heard this one if it's really on the air. I bet a lot of people are going to have their dials glued to 1550 & 1555, h1. Now, for my only recent DX: Wed. 2/25- WNTN-1550, Newton, Mass. w/EY @ 12:02am, w/ID. WEXT-1550, W. Hartford, Conn. w/ET 12:03-12:08 w/string of IDs & OC. Veries came in from WDR-1586, TIFC-1075, KLUC-1140, KTWO-1030, RAI-845, Nice-1554 and Swiss-1562, all v/qs. 73s.

HARRY SCHOOLS - 1606 South Newkirk Street - Philadelphia, Penna. 19145

Only ten new ones on the books this month in the form of WCLG, CHOW, CHIR, CMGA, WHBG, CKAC, WDLR, WFTN, WAYC, & CJMS. On 2/7 WDLR-1550 heard @ 3:06am w/announcement of their "1976 audio proof & progress test." On MM 2/9 three TESTS were heard with no problem. They were WJIC-1510, WFTN-1240 & especially WAYC-1600. A verie was received from my WFTN report which took only eight days. Veries have been coming in at a very good pace. Received recently were WFRG, WDVA, WEAM, WFTN, WPDQ, & WNDE which were all v/1. Also received were PJB, WHBG, WKTQ, WGBF, WBSC, & CHSJ which were all v/q. My Amateur Technician Class license arrived here last week. My call is WB3BIS. 73s.

WAYNE HEINEN - 1028 Pike Drive - Colorado Springs, Colorado - 80904

Another boring Mid-West Muse. Oh well, ho hum. DX (not in DXDD): 2/16- KCBS-740 u/KBSB OC. Both KXYN & KWIP made it here. 2/22- KWBB-1410 w/NNIS 2:44-2:55am, KQEM-1140 w/WRYA 3-3:15am w/c/w. KSCX-1280 ET/TT-PoP 1:58-2:03am. KWON-1400 an f/c-TT 1:21:11:30. 2/23- KGMS-1380 a big surprise 2-2:13am w/MoR, & out quickly. KBOI-670 w/WMAQ-OC 2:25-2:37 d/off. CJOC-1220 2:40-2:50am w/c/w. KEEM-1370 2:30-3am s/off (tentative). Then WEWO-1080 N.C. #1 here u/WTIC & an HJ. KUDL-1380 w/NNIS 2:30-2:40, KXOL-1360 AN w/c/w 2:12-2:30. Veries (yes, they exist!) v/1- KTIS-990, KSN0-1260, KCUZ-1490, KWSO-1380, KZRK-1540, KPRO-1370, WTTI-1530, KARI-1400, KFWE-980. v/f- KACL-1430. v/q- WSCM-860, WPIA-900 (nice NRC v/q), WXGL-1350, KKHI-1550. Anyone interested in an imprinted pen (good Quality, refillable) imprinted with NRC emblem and "Member of the National Radio Club" drop me a note. If there are sufficient requests I'll order some. (Cost plus postage). Price should be about \$2 or \$2.59, postpaid. The last Convention I eas at was BOSTON in '73 and I had nobody to give the award to! Maybe LOUISVILLE, BUT I kinda doubt it. CUN?. 73s.

KEEP THOSE MUSINGS COMING IN, FOLKS! REMEMBER, 30 LINES IS THE LIMIT!
SEND IN TWO IN ONE ENVELOPE FOR CONSECUTIVE ISSUES AND SAVE 6¢ A WEEK!
KEEP NAMES OF V/S SEPERATE ON ANOTHER SHEET, ALSO DOUBLE-SPACED, PLEASE!

GARY SIEGEL - 2728 106th Street - Toledo, Ohio - 43611

Some interesting developemtns in Toledo radio since I last Mused. But before I get into those I was wondering if any DXers noticed any variable tones on 1510 beginning @ 12:12am on 2/25? If by chance you did & you noted the TTer past lam, then you can add WPSC Pageland, S.C. to your log. It seems WPSC has a fourth MM f/c listed in the check list for 12-12:10. Well, I heard a TTer briefly that MM 2/23 from about 12:02-12:07. I tried to reach WPSC but got no answer. I called them during the day 2/24 & asked the fellow who answered if he knew whether WPSC ran their f/c on 2/23. He didn't know but said they had a PoP sked the upcoming AM! What luck! Anyway, they turned on a TT @ 12:12 & I called to confirm they're being on - they were & I must say for 500w they did quite a job to WLAC. It seems WPSC was not the TTer on MM 2/23 as the engineer (Lee Simons) conducts his own ETs. The Jan. f/c was the last such test run as they have come under new ownership & likely will not run the sked f/c. The PoP was run as part of the new takeover. Also that same Wed. AM 2/25 from about 2-3am local WIOD conducted a PoP w/a female c/w record & nigh-pitched TT breaking up the mx from time to time. I don't know if they IDed or not - they usually do when they conduct PoPs but I didn't listen throughout the test. If you heard anything strange such as this on that AM on 1560 then you had good ole 'TOD. I also noted WOBR-1530 Wanchese on MM 2/2 for WX emergency 3:50-4:35am when WCKY wiped them out. Locally, WANR, my sometimes employer, has switched again folks! Yes, WANR is back on MMs - sorry 'bout that! The new SP is 1:15-5:36 on SMS but they may s/on or off earlier by a few minutes depending on when the operators decide to go off or on. What I mean is that following the lam NXcast on SM the operator can s/off following the local NX or stay on till 1:15. Also the s/on operator can opt to do a 5:30am NX-cast or wait till the network comes in @ 5:36am - all clear on that now? Basically what I'm saying is WANR is now on MMs because the NxD decided it's more important WANR be on MMs in advance of the new work week than off- more listeners on MM than on SM, you see. Naturally I don't like it but that's the way the cookie crumbles.

RAY ARRUDA - Shoreway Acres Motel - Falmouth, Massachusetts - 02540

DX from New Bedford on MM 2/23, all times are AM: KAMA-1060 r/c u/KYW ET 2:03-2:09. TESTS from CJRW-1240, WZYQ-1370, WSYB-1380, WCVS-1450, & KTGR-1580 were all tried but not heard. WILM-1450 surfaced with NNIS programming & local NX segment o/WOL 2:30-2:38. WCCR-1580 r/c 3:01-3:06 & also 3:10-3:16, w/TT. No KTGR TEST. 3:30-3:50 WEWO TEST came in u/WTIC-1080 well enough to copy for a good report. TEST had station info, many IDs, instrumental mx, & series of TTs that started @ 3:46. WABC was off this AM. WHOO-990 on ET 4:28-4:30 mixing w/GBY/WNOX. Two veries: WICO-1320 by PF/c & a v/l from KKYN-1090-TEST verifying my tentative report. I thoroughly enjoyed myself at the DX Get-Together at West Haven on Saturday, Feb. 21. 73.

HARRY J. HAYES - Star Route - Box 226c - Gouldsboro, Pennsylvania - 18424

Right to the DX. 2/14- 5:42pm, WTGR-1520 S.C. in well w/rr. 5:53, WFLR-1570 N.Y. w/s/off at this time, kind of late. Good CX into SA. 6:37, HJDK-750 weak u/YVKS. 7pm, PJB-800 N.W.I. in w/locallike signal w/symphony orchestra. 7:46, HJAJ-760 good despite WABC splash, ID by woman. They had up tempo SS mx. UnID-870 in EE @ 8:20, sounded like a typical Top-40 station, good signal, but faded soon after. Does this fit the bill for Puerto Rico? 11:08, CKCW-1220 N.B. weak u/WGAR w/sports and WX, "CKCW Mx Man." 2/15- 1:13am, WVEC-1490 Va. in/out w/EZ. 2/16- 5:45 pm, WVOW-1290 heard after WFBG cut, w/SID w/slowly pronounced letters. 2/22- 12:29am, WJNL-1490 Pa. w/rr & college BKB scores. 1:18, WHLS-1450 Mich. in briefly w/fair signal. Mx was either rr or MoR. One note about one of last month's loggings. My 1/18 logging of R. Super on 1040 from Colombia was probably mixing w/R. Tropical, thus accounting for the Caracol mentions. As I mentioned in the International DX Digest, I did note another SS in the background. 73.

NOTE PLEASE THAT THERE ARE JUST TWO MORE IN THE WEEKLY SERIES. SO BE SURE NOT TO SEND MORE THAN ONE MUSING FOR THESE ISSUES! ONE ONLY! 30!

GREG HARDISON - 6632-A Lankershim Boulevard - North Hollywood, Cal. 91606

Yes, contrary to popular belief, I am still existant. As far as a re-intro, I'm 18 years old, working in a warehouse in Pacoima, Cal. & driving my fiancée up the wall with dial-twisting when absence of TVI permits. Not much to report in that department: CMC-640 in w/good signal in SS, KFI off MM 2/16 @ 6:08 EST. 2/16- 6:13, KORL/KYAK-650, battling it out, no WSM: but good 10 o/S-9 signal. 6:20, unID-EE-rr on 660 looping W to NW - KFAR, WNBC, or XERPM? 6:27, YNX-750 o/old pest WSB; 6:35 Tarawa-844, weak het but no audio. 6:45, XEHL-1010 w/"Onda Diez-Diez de H-L" ID o/GFRB; 7:01, VOA-1180 w/NX in SS o/XEFR; het from VOA-1178 fading in @ 7:02, far weak audio in Chinese. 7:20, weak het on 1376, USSR? It sure looped that way. 7:25, XEOX-1430 Cd. Obregon for ID & TC in KALI null. Back to 834-5k @ 7:36, for weak Belize/China hets, weaker audio. 7:45, XEROK-800 at times slopping o/local KABC w/Top-40 bubblegum QRN. That's about it for now, 73s & good DX to all.

DONALD E. ERICKSON - 6059 Essex Street - Riverside, California - 92504

714-687-5910. A short re-intro: I'm 29, single, have DXed since 1961 and have been in NRC since 1962. Receiver will shortly be an R-390A; antenna has been the Sanserino Loop for about five years. I'm a member of BCCA (Beer Can Collectors of America) & a former member of IRCA after 12 years. The one purpose of this Musing is to warn members - PLEASE record serial numbers of your equipment and your belongings. Then engrave your name, address, phone, social security number, driver's license number, or combination thereof along with the serial number on anything a burglar might be able to fence. Consider home owner's insurance if you don't already have it. If you leave your house unattended on a regular basis, consider burglar alarm protection. It CAN happen to you! I'm just recovering from the shock of losing all of my radio, taping, and electronic equipment to a burglar while I was at work. Over \$1,150 and not a cent of insurance; nothing marked; & no serial numbers. DUMB! If just one member profits from this, it will help lessen the pain of losing my equipment. I'll definitely be in LOUISVILLE for NRC; see you there. Phone calls ALWAYS appreciated - evenings, weekends, & MMs. 73. (Sorry to hear of your loss, Don - but wise advice! -ERC)

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

Here is another semi-old-timer back from hibernation. It's been about two years, I think, since my last Muse, so here's a quick re-intro: I first joined NRC in 1964 & was quite active until '69, the year we had the NRC Convention here in St. Louis. DXing activity has been sporadic ever since in this den for various reasons, the biggest one holding me back from becoming a hard-core frequent reporter now is the horrendous power line noise present 95% of the time, including MMs. I now have a Drake SW-4a, a new Realistic TRF portable, & a Crosley model 66-GS console w/78rpm changer & beautiful audio quality, vintage 1939 or 40. These three radios seem to be fairly equal to one another in sensitivity & selectivity during the rare moments I have been able to try them w/low noise levels. The SW-4a, however, is five years old & seems to need an alignment now. Back in Oct. I got a large v/q from WYMK-1380 for a report sent almost two years before, in 11/73. I was up MM 2/16 trying for all three TESTs; KKYN barely made it, no trace of the others on this stately morning. I am now getting ready & all excited to have a fling at some exciting DXing by means of a radical location change - I will be spending ten days in HAWAII on my vacation, starting 3/1, & will be taking the TRF portable & renting a car there. If all goes well, I should have a report on a few long-haul catches in two or three weeks in these pages. I am expecting to make it to LOUISVILLE - I hope to see more "old timers" come out of the woodwork and into these pages & also show up at the coming Convention! 73.

CONRAD R. DUROCHER - 437 Essex Street - Saugus, Massachusetts - 01906

"We'll be right back after MUSE headlines!" 2/9- I barely taped WFTN-1240-TEST u/garbage @ 2-2:15. WWVA-1170 cover d WBRW-TEST @ 2. I taped WAYC-1600 TEST 3-3:30 w/long TTs & few IDs. No sign of KAOL u/WNJR. Two veries from TESTs: WERI-1230 WCCP-1560. Support CPC!

DAVE SCHMIDT - 42 Chelwynne Road - Castle Hills - New Castle, Del. 19720
 Greetings from the Land of line noise! And it looks like my battle will be never-ending, hi. I am happy to report the light in the neighbor's house has been changed & the noise from there is gone; it has completely cleared up. But a new one from Delmarva Power has shown up, which I'm pretty sure is coming from the private school lines in back of our property. My contact at the power company has brought no results so I contacted the Div. of Consumer Affairs. They in turn, said they'll contact the power company & have them contact me ASAP. So things are about 50% now, hi. This problem is probably a direct result of the 2/2 storm that ERC mentioned of, a temperature drop of almost 25° in six hours & high winds can really play heck with power lines. WAMS was off that AM till 10, & I missed it - rats! Welcome to John Cessna at WAYC! To DX: 2/15- WBCW-1530 5:51-6pm w/rr & s/off w/no WCKY. PP/c going to this one, as report for initial ET back in '74 went unanswered. 2/19- WKYK-1540 6:02-6:09pm w/UI NX, WK, then MoR before fading; WERY-1540 @ 6:15-6:29pm w/c/w, many spots; WHLR-1540 noted @ 6:30 s/off right after WERY but I didn't get enough. WPTR/KXEL both gone. 2/22, best SM in a while, WBKC-1560 3:52-4:15am w/ET-rr. WCVL-1550 4:30-4:45 w/Pop (TT/OC, mx). WRAA-1330 5:54-6am w/s/on, then religion. The new WQIN-1290 6:39-7am w/religious mx, gives call & TCs between selections, ID w/SID on the hour, taken out by WFBG switch to day pattern @ 7. (Who's this, Dave? - ERC) Local WTUX doesn't hit the plate till 7:30 SMs. Later, WKRC-550 5:56-6:10pm w/NC/WX, then Dick Clark's Oldies Show, good till fade out. MM 2/23- WENW-1080-TEST wiped out WTIC 3:30-4 w/mx/TT, very strong. Much wanted WZYQ-1370 didn't show up; guess they weren't on. Two veries: WLAS-910, v/1 in large envelope w/tourist info; CHOK-1070. In a recent conversation w/Bill Coleman, he mentions a new system for drive-in movies where the audio of the picture would be run through an XR & then received on the watcher's car radio, doing away with the speaker on-the-pole system. I wonder what that would be like if it ever catches on? Then you would have true X-rated radio, hi! That's it for this time, so 73s.

DOUG JONES - 5555 Antoine #26 - Houston, Texas - 77091

I said I would report regularly, so, here goes with another report. 2/16, WCOE-1060 in good w/contest announcement & mx @ 12:50am. XEQR-1030 good, no sign of WBZ @ 1:29am. KKYN-1090-TEST w/ID after song "This is KKYN Plainview on the air for ET" @ 1:33am. KDJW-1010 IDing as "Mx Radio KDJW" @ 5:24pm. KSAL-1150 @ 5:38pm w/ad for First Federal Bank. CMC1-760 holding its own against WJR @ 9 IDing as "R. Reloj Nacional". 2/17- XEPD-590 could hear this one all day long. (?? ERC) I'm not sure of the ID but Rio Bravo was part of it. 2/19- XEWA-540 @ 9pm IDing as "LV America Latina" super-strong as always but this is the only time I listened long enough to hear an ID. 2/20- XEOY-1000 @ 6:30pm "R. Mil" ID heard. 2/23, WSPD-1370 @ 1:30am in fair w/the NX WX, announcer said it was 18°. Well, that's about it from the Bayou City. I left out some daytime DX which was nothing great. Another hobby of mine (beside radio) is collecting old soft drink bottles. If anybody else collects them, please write. Verie from KEYH-850. 73.

JAMES E. CRITCHETT - 3900 Gaines Lane - Anderson, California - 96007

My totals heard here near Anderson since 1/28 are 135 IDed. I have heard a station on each frequency from 540 to 1600 except 660. Susanville mentioned on 1240 & talk on 1480; probably KRED, but too much spill from KBLF-1490, so far. Only entirely new station is KAYA-1450, in nearby Burney; never heard in Yreka. No reception reports sent, & no veries received. KGRB-900 & KRKK-1360 reports sent last June & July are still unanswered. I am still using the Drake SPR-4 and San-serino Loop. I am just reporting to notify member friends that I am still alive & DXing. Best wishes.

TWO MORE WEEKLY ISSUES, THEN WE TAPER OFF FOR THE SPRING-SUMMER-AUTUMN SEASON. WE ASK MEMBERS TO MUSE, BUT CHECK THE DATES FOR THE UPCOMING ISSUES SO YOU DON'T SEND IN MORE THAN ONE MUSING PER ISSUE. TWO 30-LINE MUSES IN ONE ISSUE IS LIKE ONE 60-LINER. WE DON'T THROW OUT MUSINGS THAT MISS DEADLINE DATE BY A DAY, NATURALLY, BUT PLEASE TRY TO OBSERVE THEM.

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

CHAPTER XIX - "FIFTEEN WHATS & A THOUSAND OYS"

Back in 1934 or '35, all-nighters were countable on the fingers of one hand. DXers used to scorn little WEXL-1310, Royal Oak, Michigan, a tiny 50-watter, for staying on the air until 4 a.m. daily on that then graveyard channel. They were silent from 4 to 8 a.m. each day. So when the then leading BGB DX Club, the Newark News Radio Club, arranged a DX program on 1310 from one of the most sought-after catches of that era, little 15-watter, KFPM, in Greenville, Texas, one Sunday morning from 2 to 3 a.m., EST, the Club contacted WEXL and ask them please to stand by for that hour so that DXers the country over, and in Canada, might have the opportunity of logging this prize catch in the Great State of Texas. And, this they agreed to do - and did. DXers everywhere were tuned to 1310 at 2 a.m., and, sure enough, at the appointed hour, WEXL announced they were signing off for an hour at the request of the NNRC to allow DXers to have a chance to log KFPM. Yep - off went their carrier, and immediately as it did, on came another, and in Brooklyn, it had the volume of the signal which had just left the airwaves - maybe a little better. "Wow" I mused - what a signal KFPM is going to put in - this'll be a cinch logging for me!" After about a 15 second wait for the opening announcement, sure enough, on it came. "Good Morning, ladies and gentlemen. This is a special DX program for the NATIONAL RADIO CLUB. This is Radio Station --- no - not KFPM - but - This is Radio Station - WBER, in Buffalo, New York." In those days, there was no interclub co-operation, you see, and unbeknownst to the NRC, the NNRC had arranged that DX from KFPM at the same time NRC had asked WBER to DX. The NNRC, likewise, had no inkling of the WBER DX. And thus it was that most Eastern DXers were not able to log KFPM. Whether or not it would have made it a question which will never be answered, of course. But - it could have! *ERCooper NEXT WEEK: DICK NORTHUP RETURNS TO SING "SILENT NIGHT."

PAUL MOUNT - 471 Emerson Avenue - Teaneck, New Jersey - 07666

Continuing from the last time on 2/2, WKIX-850 Raleigh on ET, playing 1972-4 rr, 2:40-3 ID, then more mx. I hope they verie this year. I'm still looking for verie #200. Now an SSS session. WRYM-840 Conn. s/off 5:30, no SSB. WKIX in again, on RS, 5:42pm. Whenever I DXed SSS, which hasn't been often, I would do a frequency like 1580, 1550, or 1310. I never thought of trying the I-B clears, till I sort of happened to be there now. Wanted WAPE-690 atop 6:04-6:14, good in QRN. WYDE-850 Birmingham atop, very good w/a few c/w songs, Sky Watch-85 traffic, spots to power/pattern change in middle of a song. Odd fact again, these were also audible (well) on Panasonic. My sister heard WYDE on my tip (for once). They were verified from Summit, another report sent for here. 2/9- Maybe on KNUJ-TEST, though Tter I had may have been on 870 2:05-2:08. Only a maybe on WBRW-1170 TEST despite closeness, it's hard to null WWVA since Somerville & Wheeling are kind of close to co-linear. TT heard u/ WWVA 2:19, o/lk 2:20, higher 2:21. I made a tape which I haven't listened to yet, so maybe an ID there. WHN on/off testing, CHUM in well for another report to them. WAYC-1600 alone on TEST, thanks Dave. HJHM-960 4:02, CHTN now a pest (except for needed tape ID). 2/12- No school so I logged a new unverified daytimers- WHP the first. I finally tried hard for WLAD, & it was heard. There was a 3k (or so) het, which I highly suspect is from WABC, since there was a similar one on WGSW-740. Sounds like the same thing WOR did on 683 & 737. They better clean it up, or maybe the FCC calls I hope. I had to null it to get WLAD. They're playing down MoR. Later @ SSS, WLNH-1350 o/WNLK 5:08-5:10, again atop @ 5:15 s/off. I'll have to try again for report. I heard "Dream Waver" four times in ten minutes- it should be a biggie by the time this is printed. WOSC Fulton s/off @ 5:30, WBEC-1420 I guess (sounded like WBEZ) 5:43 - strange, they would be on night pattern by then. It'll be mid-April by the time these Muses typed 2/13 stop appearing. I often send in more than one Musing at once, mainly since it's easier to do them all at once than every week. Notes Department next time. 73 & good DX.

AS THEY ASK IN EVANSTON, ILL. "WNMP"? "WHY NOT MAKE PLANS" FOR THE BIG NRC LOUISVILLE CONVENTION OVER LABOR DAY WEEKEND? SET YOUR VACATION NOW!

MARK CONNELLY - 47 Lakewood Drive - Sudbury, Massachusetts - 01776

I thought it about time for a Musing. DX activities from here & from the Cape have primarily been of the international variety; just a little domestic DX on the side, not enough for a substantial report within the rather rigid deadline policy of DDXD. Notable domestic catches since 11/75: On 11/4, an ET from WKBA-1550 Va. I called in & got on the air @ 2:40. KRMG-740 Okla. noted w/CBNM/CBL off, 2:53am. WINZ-940 Fla. dominant @ 3am, CBNM off. WVCH-740 Pa. s/off @ 4:45pm, promptly solo by s/off of WMEL N.C. & WMBG Va.; AU had weakened the usually-dominant Canadians. On 730, WPIT/WPIK s/off @ 5pm, also WMNA w/Gretna spots. On 11/5, WMEL-920 Fla. good w/WJAR nullled, 7:30pm. From West Yarmouth on 11/27, WXVA-1550 W.Va. dominant w/WNTN nullled @ SSS; WVAB/WEST are the "usuals" here. VCCM-590 u/WEEI/CMW/HJCR o/WARM in a real jumble, 10:12pm. Evening of 12/9, good short skip opening to Maritimes: CHSJ o/u WCOP-1150 CKBW o/WCFL-1000, CBD o/u WBT-1110, etc. Canadians were excellent from W. Yarmouth on 12/21: CBD-1110 very strong, alone on frequency w/CBC NX, @ 4pm. CHTN way o/WLIB w/Charlottetown Mall ad on 1190 @ 4:55pm. CBY-990 w/Maritime region CBC NX, 5:05. CKBW-1000 way o/HJAQ w/detailed marine WX, 5:10. CKAD-1350 way o/WKLX w/Cross Country Check-Up talk show @ 5:30. UNID PFC-1360 o/u WDRG, 5:35pm. CJFP was mashing GYers on 1400 w/FF suaredance mx, 5:42. CIGO-1410 very strong o/WPOP w/c/w & IDs mentioning the Canso Straits area, 5:45pm. Moncton, N.B. (CKSO?) on 1380 o/u WSYB w/WX, 5:48. CBT-540 Nfld. o/LA mess w/Cross Country Check-Up @ 6pm. CBN-640 also w/C.C.C.U. o/u CMQ @ 6:08. BBC-647 was extremely strong at this time; this would indicate a good Canadian opening (a sign of AU quiet) may show viable northern TA path existence. CHNC-610 w/FF talk o/WGIR @ 6:10pm. CBH-860 dominant in battle w/HILR/GJBC, 6:40. CFBC-930 o/u WNNH w/Beatles song, 6:57pm. On 12/28, bootleg WCPR-1620 was monitored from 12:24 to 2:55am, had phone calls, some about DX. More domestic will appear in my next Musing. 73s.

HARRY W. JONES - 9612 Atwood Road - Vienna, Virginia - 32180 (K4FIC)

The Autek QF-1 Filter finally arrived. Adjustments are rather critical for optimum results but in the hands of an experienced DX-operator it is a worthwhile addition to the shack. However, audio filters are no substitute for high performance up-front in the antenna system & signal path circuits (R.F. & I.F.) in the RX. I am very pleased to report two high band TAs received here. In the early AM of 2/27, Bayerischer Rundfunk, Munich, 1602, 12:05-12:30am & WDR-1586 Langenburg 12:30-12:45 were both solid copy here (QSA-5 S-5) w/male announcers, GG, & light mx. The tipoff for good high-band reception was evident around 11:30pm when several European DX stations were contacted on 80 meters amateur band from K4FIC w/unusually good signal reports. The receiving system used for TAs was 135' LW w/Dentron Antenna Tuner & Ameco PCL-P pre-amplifier ahead of SPR-4 w/Autek. The Ameco PCL-P pre-amplifier (H.F.) provides 20db gain down to 1500k on lowest band switch position, for high band DX coverage. On 2/25, TICAL-525 R. Rumbo, Cartage, was cranked up from the depths with aid of Autek filter. Also reception of TILX-725 & R. Belize-834 was much improved with audio filter. More on the Autek QF-1 in next report. 73.

GENE S. ALLEN - 134 Bret Harte Way - Vallejo, California - 94590

I visited the DX Den this AM 2/27 for the first time in over a week & DXed for a few hours. I couldn't sleep due to leg pains. I had Sakhalin-973 & the usual Orientals on 655 & 877k plus the splits from 1000-1050 were full of CA & SA stations - all heard this AM 6-7am. Latest veries in from XEZM-650, WCCP-1560, KGYU-1270, KAOL-1430 & WQBX-710, the latter two on Club specials. CX here in general this Winter have been poorer than last year but maybe we'll have a good run of DX this Spring. If any local San Francisco Bay Area DXers know where there is an R-390-A/URR RX for sale I will be glad to hear about it. 73s, all.

JOHN SOMMER - 1022 Catalina Avenue - Fort Wayne, Indiana - 46825

WMEL-920 Fla. didn't s/en @ 5:59 MM as I reported in DXDD, but WMMN does. (Sked change). Scott Simpson, NRCer in Ft. Wayne called KTGR-1580 during the TEST & after introducing himself he told the CE that

(Sommer) KTGR was being heard in Fort Wayne. There was a long silence, then "Where are you REALLY calling from?" - at least that's the way I was told it. WSYB-TEST was heard w/IDs & code. KVBR was heard w/ID at beginning, then just code as the 1340 mess developed. 1490 was clear w/one station on top (all of this is 3/1). KRYT made it o/NX, likely KFBK as I read it, and WRR, WRNL are now NIS. Who is NIS AN on 1340 - I didn't hear them 3/1? I'm ready for a TEST from WAMS-1380 as that's a clear channel around here after WMEE s/off, except for WAOK. Hint, hint, to all you Del. DXers. It has been reported in GLDXA's (?? -ERC) NX memo that a pirate is back on 1629 with CL of WCPU (?? -ERC) w/talk of "opening up" other frequencies for "free radio." Coincidence? WMAQ was on after 4:10 MM 3/1 & w/screwed WX mentioning ID three times, Col. & Wyo. twice & "snow as far E as Mich.", & S.D. once. No local WX, so you'd think it was KBOI or something, but a little too strong for that here. Does the Cuban on 650 carry non-// programming to 640 - it seemed too loud? (There's no Cuban on 650 that I know of -ERC) Well, back to studies. A tout l'heure. TT during KTGR TEST was WJVA, Ind. on ET till 3:17, per definite ID by Robert Baker on Goshen which is near South Bend for you non-Hoosiers (Hoosier means hick, but they's all So, Indiana-ers)

ERIC FADER - 23-35 Bell Boulevard - Bayside, New York - 11360

Hi all. I just got back from the MADmen meeting at Malcolm Kaufman's, 2/29. I enjoyed (??) meeting Shaftan again, Paul Mount and Chris Hansen too, for the first time. Everyone else I missed, having arrived late. One highlight was watching Chris clean the rug, but a bit of DX around 8pm (despite poor CX) proved to be the show-stopper. I was "at the controls" of Malcolm's SW4A, at 550, when a DJ said KOY. I said "Did he say K-O-Y-?!" and we looked it up in a log. Malcolm freaked out at KOY, Phoenix, and ran around the room trying to get patch cords & CTR. Trouble is, KOY (I'm sure I heard that ID) had gone "blip!" & disappeared at power cut time. As Chris debated the power of suggestion & the thoughts of my subconscious mind in "thinking" I heard a KOY ID, Malcolm fell to the floor in agony & frustration. That would have been a tremendous catch to have on tape, right? MM 3/1- Just CHEF-K450 & TTs on 1440 & 1460 noted around 12:25am. Most wanted here is now KOY, hi. 73s.

STEVEN WISEBLOOD - 707 Loma Way - Santa Maria, California - 93454

Thanks to Dan Flak for telling it like it is, as far as WC DX is concerned. In the Eastern half of the U.S.A. the states, as we all know, are much smaller than the Western states (such as Wyo. Col. Mont.). Population densities are also greater in the E. There are 150 million people E of the Great Plains, and 50 W of them. This clearly gives the Easterner a GREAT advantage (as far as DX is concerned, anyway). Let's take Los Angeles as a specific example: Within a 1,000 mile radius there are 35 million people (in the U.S.) & and within a 1,000 mile radius of Cleveland, O. there are 168 million people (in the U.S.) & at least another 15 million in Canada. As we all know, radio stations are scattered around the country according to population density (more or less). It seems likely to conclude that since the population density of the E is over twice that of the W, the E is blessed with over TWICE the number of radio stations than the W. It also seems likely that a certain DXer in Youngstown, O. will have totals amounting to twice that of a certain WC DXer. When a Cal. DXer logs WFEA in N.H., THAT is DX! Chances of another Cal. DXer's duplicating a 2,500 mile 5kw DX logging at 1370k could happen only once every few years. This type of thing is almost as rare as Channel 10 Sporadic-E on TV. While the Eastern DXer is satisfied DXing with an HQ-180 & a loop, Western DXers would have to have an RX twice as good as an HQ-180, & a loop twice as large as an SM-2, but even with a super-receiver and super antennas the Western DXers will still take twice as long to log 1,000 stations as an Eastern DXer. I hope I have made myself perfectly clear. I will return. 73s in '76. (And twice as many all-nighters to queer the good DX -ERC)

REMEMBER, ONLY TWO MORE WEEKLY ISSUES. CHECK THE NEXT PAGE FOR DEADLINE DATES SO AS NOT TO SEND IN MORE THAN ONE MUSING FOR ANY OF THE OFF-SEASON ISSUES. 30 LINES IS YOUR MAXIMUM! PLEASE DOUBLE SPACE!

<u>Vol. 43</u>	<u>DX NEWS dated</u>	<u>Deadline in Provincetown (MUSINGS)</u>
#22	March 29 (last weekly)	Thurs. March 18
#23	April 12	Thurs. April 1
#24	May 3	Thurs. April 22
#25	May 24	Thurs. May 13
#26	June 21	Thurs. June 10
#27	July 19	Thurs. July 8
#28	August 16	Thurs. August 5
#29	Sept. 20	Thurs. Sept. 9
#30	Oct. 4	Thurs. Sept. 23
Vol. 44 #1	Oct. 18 (then, weekly)	Thurs. Oct. 7

PLEASE, FOLKS - ONLY ONE MUSING PER MEMBER PER ISSUE! THANK YOU!

PAUL E. SOJKA - 38 Grove Street - Elizabeth, New Jersey - 07202

Since I haven't Mused since September, I guess I'm due. I've got a lot of DX time on my hands. I'm one of the 126 police officers that Mayor Gibson of Newark saw fit to lay off. I guess I'll have to get out of the Metro area. A move to the Chapel Hill, N.C. area may be coming up. Down to DX. All the following is from MM 3/1. WKIX-850 noted on a test @ 1:24 w/rr. Another rest heard @ 2:07, this being WFMJ -1390 w/TT. Moving on to 4:24, CHTN-1190 finally bagged w/EL mx. Paul Mount is not the last to log this one - I am. 5am, St. Kitts-1265 w/EE religious program. Very strong LAs this morning. WDAK-540 @ 5:55 w/c/w until s/on of WLIK w/crowing rooster. 6:07, WSPR-1270 in strong w/rr. 6:23, WCBM-680 in w/many commercials & promos. 6:27, WHYI-960 w/mention of "While-Country WX." Referring to a comment in 2/23 DX NEWS by Joe Fela, I can only echo his sentiments about people who count stations logged by hearing bits & pieces of TT. I don't count it unless I hear an ID or some such positive proof. My own personal method of logging stations is not to get too far ahead of my total verified. In other words, I have 262 logged & 230 verified. I just keep sending f/ups or make trips to stations for veries. This way, my percentage is high. A comment that I would like to make, & discussion is welcome, is on black-listing stations. Rather than blacklisting, would a column of stations that have required PP/cs be helpful? I'd be willing to write it myself. (See v/s lists for that info, Paul! -ERC) I guess I'll end now on this note. Mothballs may stink, but Mothball Memories is the greatest! 73s.

ERNEST R. COOPER - 5 Anthony Street - Provincetown, Mass. - 02657

V/f in from CKTL-1420, sent from CKLD-1230, Thetford Mines, the "flagship" station of that five-outlet network. And, a second pennant w/no letter from La Voz de Barranquilla-760 for September reception. A rather non-productive week has just elapsed here. SM 2/29- I really wanted to make a logging on this Fifth Sunday of February - the last one I'll ever see, hi - but no luck. XEWA-540 topping @ 1:55 w/cl mx, & as luck'd have it, equally unnn XEW-900 noted @ 2:20 selling Bacardi Rum o/u CHML. There's an AN Caracol Colombian almost dominating 1420 this morning, but there are THREE caracol ANs listed on 1420, so no way to tell which one (without guessing). UnID TT-1330 3:13-3:17 & on. MM 3/1- Perhaps a goodie, but alas, unID, on 1562A w/EE, but decided British accent @ 12:45, & faded away by 1:23, & I didn't find out who he was. If a TA, it must be a "pirate ship". That's Switzerland's frequency & he doesn't run EE. Looking for KNDI-1530 r/c 1:10-1:20 produced a TT but also pestiferous WTTI, at it again, also WCKY testing off & on. Maybe next month. TT with varying pitch on 1450 @ 12:49-1:01 & on, and one doing likewise on 1590 @ 1:25-1:27-plus. Two CCs on 1550 @ 1:30. WPOP-1410-NNIS was very weak today. WSGA-1400 in again @ 1:38. I too heard a Caracol ID on the AN-SS on 1040 today. WCBS was off, and the Cuban was in real good. WBCB-1490, not often heard, was today, @ 3:02, RS-AN, EZ. WCAU quit blabbering & was Tting @ 3:17. Unn ZNS o/WPTR, oddly enough, @ 3:55. For want of something else to do, I took a log & sent report to R. Tiempo-1200, Caracas. 3/2- Jepko stations were notably absent today on WHWH-1350, WJAR-920, WHHC-1340! Who's the AN-rr on 900 o/u CHML? 3/3 - TTer on 1550 turned out to be unnn WBSC. WCAX(?) -1240 heard ANing, who?

CLIPPING CODES

The "Amsterdam Effect" In Iran

By: J. Fred Riley

It has been found that super-power transmitters may cause interference to the sky wave signals of lower powered transmitters by actual modification of the properties of the Ionosphere. The reader is referenced to "Proceedings of the IEEE" for July 1975 in which a discussion of National Bureau of Standards experiments on Ionospheric modification, as it applies to VHF and UHF communications, is contained.

One of the first indications that low frequency intermodulation was occurring was found in the Netherlands due to Ionospheric modification caused by a super-power transmitter in Amsterdam. Hence the title "Amsterdam Effect" is common throughout Europe and the Mid-East.

Your author, on a recent field trip to Iran, witnessed the results of intermodulation measurements being conducted at several of the sites I visited throughout Iran. National Iranian Radio and Television operates a 2 megawatt transmitter on 535 kHz at a site near the capital, Tehran. This power is capable of causing intermodulation of lower powered stations due to an increase or decrease in the Ionization levels of the atmosphere that actually follows the modulation of the super-power transmitter.

One measurement by N.I.R.T. that I witnessed was made at Ardebil, 250 Km Northwest of Tehran. The station envelope we were displaying was a Harris BC-20H, 20 kW transmitter operating on 1214 kHz located at Chalus. Chalus is about 200 Km North of Tehran and 250 Km East of Ardebil. The 2 megawatt was modulated 100% at various frequencies while the Chalus transmitter was unmodulated. The following intermodulation was noted:

MODULATING FREQUENCY:	INTERMODULATION OF THE CHALUS CARRIER:
100 Hz	25%
400 Hz	10%
1 KHz	less than 1%

We see from these figures that the ionosphere can apparently only be altered at lower frequency rates. In a measurement made by N.I.R.T. at Chalus, observing the Ardebil BC-20H (1320 kHz), at one point the intermodulation of the Ardebil signal approached 100% at 60 Hz, but was less than 3% at 1 kHz. Measurements by N.I.R.T. are continuing throughout Iran as the installation of seven new sites of paralleled 100 kW Harris VP-100A transmitters proceeds. The concern was that in some remote areas, the 200 kW output from the paralleled transmitters might interfere with lower powered sky wave signals.

The conclusions, at this point, suggest that the intermodulation is never audible (on smaller speakers) when the lower powered signal is modulated and that, even in extreme cases, the high frequency cut-off characteristics of this effect would prevent intelligible intermodulation. It appears that the effect is an interesting phenomena without the possibly serious problems of audible intermodulation if the high roll-off effect did not exist. Measurements using a 100 kW transmitter suggest that a minimum power of 500-1000 kW is required before this phenomena becomes measurable.

From the Harris Communications Quarterly Broadcast Products Publication "Pride In Service" Vol. 4, via Craig Healy.

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73's

This graph shows the daily variation in A_{pp} , the Fredericksburg index of geomagnetic/auroral disturbance in the Earth's magnetic field. High values of the A index usually result from a heavy influx of electrically charged particles into the upper atmosphere following certain types of solar disturbances. The severe medium-wave signal absorption produced by one of these events is most intense in higher latitudes and affects high frequency MW signals less than those on lower channels. Values of A above about 20 are inevitably associated with heavy signal absorption along TA and TP paths; very high values (above say 40) are usually accompanied by D and E-region blanketing over North America and Europe; on such a night reception from the south is favored. The maximum absorption for some events may be delayed a few days after the geomagnetic disturbance or may occur immediately. Extended periods of low geomagnetic/auroral activity are necessary but not sufficient to guarantee excellent high latitude reception throughout the MW band; other ionospheric effects such as sporadic E and the winter anomaly may mask what would otherwise be excellent cx following prolonged quiet.

