

# DX NEWS



## The Magazine of the National Radio Club

VOLUME 39

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NUMBER 25

"Every Monday is a great day--- DX NEWS comes in!  
Each issue contains a lot of surprises..."  
(Zbigniew Ogorek, Poland)

### THIS WEEK IN DX NEWS...

- \*DXploring On The Way To China--- Arctic Radio Club
- \*Skywave or Groundwave Reception?--- Gordon Nelson
- \*DXtras West--- Blake Lawrence
- \*Construction Permit List--- Steve Bohac
- \*Building the Two-Foot Loop Antenna--- Russ Edmunds
- \*Looking At DX in New Zealand--- Medium Wave News
- \*Announced CARACOL Station List--- Ron Schatz
- \*Reviewing the Sony TR-1300--- Ron Schatz



### MORE NEW MEMBERS!...

- \*Edward Fox, Gary, Indiana
- \*Robert Menn, Hialeah, Florida
- \*Vernon Maxham, San Francisco, Calif.
- \*Mike Tannery, Houston, Texas (Rejoins--- welcome back!)

Welcome to the club, gentlemen, and we hope we'll be hearing from you often here in the pages of DX NEWS.

### RENEWALS...

Duggan... Hardester (AIR)... Levintow... Hauser... Blazek (AIR)... Foster...  
Wyman... Steele... Evans (John and Rick)... Bond... Holmes... Luton...  
Lucas,, Jacobs,,

### 1972 FM ATLAS AVAILABLE...

The publisher of the FM ATLAS has notified us that the new 1972 FM ATLAS and Station Directory is now available. **This year, in addition to the atlas itself, it has been expanded to include a station directory which includes information such as formats, coverage radius in miles, etc.** There are also special sections on such topics as FM in Mexico, tips on improving reception at home and in the car. **We at HQ recommend this log highly; it is truly the FM equivalent to the NRC Domestic Log. It can be ordered for \$2.50 (\$3.00 Canada and Foreign) from Bruce Elving, Publisher, FM ATLAS, Box 24, Adolph, Minn. 55701.**

GPN is back in full force this issue with his IDXD Features section and a fine article; at the same time, Foxy has called HQ to tell us that there just weren't enough reports for the MR section; therefore no Monitor Reports this time. We once again urge our members to send in reports; without your reports, the club is nothing. **You'll find that there's a lot of fun in it, too!**

RJE's copy for issue no. 24 arrived on April THIRD, three days after the issue was mailed, you'll find it in this issue as the mighty P.O. strikes another blow to HQ efficiency...

NOTES FROM THE EVER-CONTINUING NRC HQ DRAMA...

Well, we're finally back from our foray to St. Louis; hopefully we'll be able to shake the remaining bugs out of their computer system from here - which means we can start to straighten out the chaos from our fire... First of all, Randy Kane and the Nelson family would like to express deepest appreciation to the members of the Publishing Committee who'd begun rescuing the Club's vital materials even before the fire was out as well as generally being of great aid. Big George Kelley, Lynne and Cary Pall, Mark Katz, and Ray Moore have done a remarkable job of keeping the Club running smoothly and DX NEWS coming out on time during this very difficult period.

What did the fire do to NRC operations? The area of our new house that we'd set aside and equipped especially for composition of DX NEWS and other club operations was mostly smoke and water damaged. Prompt work by CDP saved the HQ IBM typewriter, etc. Almost all NRC HQ materials, records, and files came through smoky but okay - including all recent incoming mail, all of the data for the Club's computerized mailing system, requests for pending items such as Pattern Books, stationery, and reprints, incoming joins and renewals, etc. Also undamaged were the articles and copy queued up for inclusion in DX NEWS and all QSL's and pictures of QSL's supplied by the membership...

Losses to Club materials were almost nil. We lost several hundred overrun copies of DX NEWS destined for that most noble of fates - becoming sample bulletins. The NRC Archives - bound copies of DX NEWS going back to 1939 - were lost; hopefully with the aid of our members we will be able to reassemble a complete set once again. The other main loss was the over-sized master copy of the last NRC Domestic Log prepared by Randy, Big George, and myself; Russ Edmunds was to use it as the basis for the new Domestic Log but now we'll have to go another route...

The third floor personal losses were heavy indeed... starting with all of Randy's personal belongings. All of the Nelson electronics was totally lost (ever see a melted receiver?); our basic receiving system which took 10 years and almost unlimited MIT laboratory and computer facilities to design and build - the basis for all of our technical articles here in DX NEWS; the prototypes and advanced versions of the FET altazimuth and pattern controlled loops; all of the mechanical filters and arrays; the direction finding equipment; our highly developed frequency measuring equipment; the SAH and spectrum analysis equipment; the audio processing filter system; the chart recorders used for longterm signal strength recording; tape recorders, etc., etc. With enough money and time that can all be replaced, though. Not so the tape library: recordings of each of the more than 700 foreign stations in 123 countries we've logged on the MW band over the past 10 years... plus all of our QSL's... At least our auroral reception data was saved; by chance it was with me in St. Louis... An article on the protection and insurance of your treasured DX belongings will appear soon here in DX NEWS...

Damage to the house is in the \$30,000 range and reconstruction will not be completed for at least 6 months. In the mean time we'll be staying in a temporary house and the HQ operations previously centralized at 48 Hardy will remain split between Cary's place and ours... Mail for Randy or myself will continue to reach us at Box 99.

Gordon P. Nelson

ON THE STATION'S STATIONERY.  
KLEB-1600 Golden Meadow, Ia. 70357  
March 13, 1972

Dear Club Members,  
We would like to thank you for your nice response on the February 7th DX Test. We received a total of 33 reception reports from 14 states, Canada and New Zealand. The 14 states were Illinois, Michigan, Connecticut, Maryland, North Carolina, Missouri, Pennsylvania, Indiana, Florida, Oklahoma, Nebraska, Minnesota, Ohio, and Virginia. We feel that the test was successful considering the stiff competition from WWRL, CJRN, and KIAK who were all on the channel that morning. Our congratulations go out to all of you who were able to log us and our wishes for better luck next time for those of you who weren't quite so lucky. In closing, we would like to say a special word of thanks to the editors and publishers of DX News for the advance publicity on the test. We wish your fine club continued success.  
Sincerely,  
J. A. Egle, Owner  
(signed): Phil Duet, Chief Engineer  
Bob Carole, Public Relations

Dear Mr. Cooper:  
I have checked with my Chief Engineer and we find it will be impossible to conduct tests as you request the morning of April 3. Your request catches my fancy however and we will attempt to arrange such a test sometime in the future. We will let you know when.  
Sincerely, Pinellas Radio Corporation, (signed) Dan L. Johnson, Gen'l Manager

We have heard from the Postal Service in Washington, in answer to our complaint about mail correctly addressed to 438 East 21 Street, Brooklyn, N.Y. 11226, being returned to the sender marked "No such number - do not post in this envelope or wrapper again." It is being investigated, and this is the second time, as it was also done two or three years ago when there was a rash of this sort of thing here. If anybody write to us here in Brooklyn, and gets his letter back so marked by the Post Office, please send me that envelope (in another one) so it might be sent along to the Inspector in Washington.

ERNEST R. COOPER - 438 East 21 St. - CARRIER ROUTE 56 - Brooklyn, New York - 11226  
One verbi in, CPMI-1170, including an expensive-looking elaborate booklet about the station, including mps, rates, personalities, etc. They returned my stamped-addressed envelope & used 24¢ postage on the big manila folder, a very friendly station! They have a most unusual s/off theme. DX: 3/25, Sat. night - I got a nice log on ZIZ-555 & report off - ZIZ s/off that eve @ 10:11pm. MM 3/27- UnID TTR on 1580 @ 2:13 & on, Ron Musco also heard 'em without IDing 'em. Did anybody else have that luck? Oops - that was SM 3/26 - so ry. We noted WFBZ & WENX were off. MM 3/27- CJRN-1170 booming in & reported, 1:53-2:06. WMM-1260 TEST not heard. An SSB on 1150 @ 1:25am, a s/off, unID. WLCV-1380ID heard @ 1:32 WAKR-1590 was off today. There was a strange sound on that channel, like a machine motor roaring fast & slow - hat was it? Later a WGEF ID heard & electronic-type mx. 1:49, there he is again - yep, WGEN-1500 ET/c/w. KYN-1060 is not on MW, & WOP-710 was on AXR today. Who TTRs & CCed on 1070 around 2:32-2:42am? Unl. WPXY -1550 on ET/CC w/ID @ 2:59. KIMA-1150 may have made it - TT heard @ 3:15, but no ID. 4/1- I got up to try for WMOV-1360's r/c, & I heard their TT & part of one ID. Also a TT w/local WPOW-1330 4:37-4:43 - is this a w./Tenn. r/c, as this is the morning (first Sat.) for stations in this area to check. MM 4/3- On 1380 today, a loud ID from WTCB @ 2:02, then CC from about six, hi. WEE-1050, local ETed during the KUPK 2:15-2:30 r/c, and were off the rest of the morning - beans! Unl. WMAX-170 ID heard w/WKRN @ 2:16. Unl. WERT-1380 ID @ 3. Unl. but rare WCEX-1380 heard ID & theirs in another of those 1380 CCs - IDed @ 3:05am. On 1360, WOP in the clear, so no WDRG on. WJAS-1320 urn, ET @ 3:11. And that's a Paraguayan allright! ie, & they were in @ 3:25-3:40, then out but back again @ 3:40 to 4:02 final fade out. They hit S- at peak, & this was not in Auroral night! But who is he? CUNIL.

We are saddened to learn of the passing of Paulene Critchett, wife of our long-time San Diego member, Jim Critchett. She passed away on March 23, due to throat cancer. As Jim mourns his great loss, we all extend our heart-felt sympathy to him at this sad time.

#### CONGRATULATIONS

To Mr. & Mrs. Ron Musco, on the birth of their second child and second son, in late March. We salute them at this happy occasion, and wish the newcomer all the success in the world in his life.

#### HEARD SINCE LAST ISSUE

550	W G N G	Ex-WXTR (3/25)	MOR	1430	W Q P D	Ex-WPCF
1270	K G U Y	Ex-KGCL (IRCA)		1540	W S W G	Ex-WLEF (IRCA)
				1590	W ? ? ?	Honesdale, Pennsylvania

#### "AN" SITUATION

ONS: 630 C K R C WSP (was off Tuesdays) CFF: 610 K G G M Heard to s/on @  
730 C K D M AN-5, off SM & MM

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

Greetings. It has been quite some time since I've been in these pages. I spent Easter weekend copying over my log books into one organized notebook. It was quite a job, but I am very pleased with it, and glad I did it. After thinking of nothing but DX for two days, I was inspired to write a Musing. For the newer members, and those who have forgotten, I will give a re-intro. I am 17 years old and have been an NRC member for four years. I have been into DXing for about five years. I do not have a receiver so, as a result, no new DX. The last station I logged was on 10/18/70 in the form of WARV-1,90. My totals are: 387/152, 40/33, 7/5, 21/16. I was glad to see Jim Renfrew in DX NEWS a few weeks ago. Jim & I started DXing together in 1968. I was once a CPC member and managed to get a few DX Specials together. The most successful being WGSN-740 on 10/27/69. I enjoyed accomplishing that. I would enjoy receiving help from somebody out there on something. If anyone has a RX they would like to sell for \$25-\$35, that is in good shape, please let me know. I want very much to get going again but I have absolutely nothing to use. Contact me either by mail or phone, the number here is 203-966-4903. Call from 10:30pm ELP on. I have nothing much more to report, so I'll s/off now. I hope to be active again real soon. 73 & Dig Life.

GRIG HARDISON - 17600 Orma Drive - Granada Hills, California

Last Musing, I told all about a Chinese Crud a la Power Company that was fouling the whole band. Well, on 3/28 a man came out from the Dep't of Power. I tuned in the noise for him & showed him it looped out toward a local power receiving station. He said he'd see about it. So on 3/29, I still had the buzz, but it was "flickering", or staying on a few seconds, then going off a few. And that's the last time I heard it. So look who fought City Hall & won, hi! Some DX: 3/30- Tarawa-844 @ 2:20am EST w/Loud het against WHAS-840, but undermodulated so no audio heard. Also 3/30 @ 11:20pm EST, a pirate or something heard on 845k w/hard rr. This was heard last month w/rr //KPPC-FM in Pasadena, but this time I could find no FM or AM parallel. Both times station looped NW/SE. 4/1- CHNL-900 in well w/MOR & ad for stereo sh p @ 3:45am, as well as time checks. Are they really 5kw as per NRC Log? (Would the NRC Log lie?? -ERC) Randomness Dep't: XMM-900 in Tijuana is usually on until midnight or 1 PST. So, isn't this an NARBA Treaty violation, since 800k is a Class 1-A channel w/XELO dominating? Pete Taylor: If you still have your 475-1200k buzz, then see if there is a three-plus socket multiplier plugged in near your RX. I found out that one of those will mess up the band quicker than anything else besides a light dimmer. 73s Peace, Ecology, Love, & C.C.N. (Outlaw California NSPers.)

NEXT ISSUE WILL APPEAR IN TWO WEEKS, AND SO WILL THE ONE AFTER THAT. DEADLINES IN BROOKLYN REMAIN THE THURSDAYS, APRIL 20 and MAY 4th. BE SURE TO DOUBLE SPACE!

# MUSINGS

OF THE  
MEMBERS



ERNEST R. COOPER  
436 EAST 21st STREET  
CARRIER ROUTE 56  
BROOKLYN, NY 11226

JAMES E. CRITCHETT - 1504 Glenwood Drive - San Diego, California - 92103

Now that I am off my pulpit (see last Musing) here are the stations heard, but not receiving reception reports, since 2/14. Wed. 2/16 KMIC-630 heard u/KHOW/KIDO/KOH @ 8am EST. SM 2/20- KCID through KAIR @ 8:39am. KGR-1300 has been off several mornings lately, giving me KPUS AN-SPU 2/21; KMO Tacoma AN-SPU 2/23; KFIV Modesto AN-SPU SM 3/5 & KRER s/on the same morning. Another on crowded 630 was KSXX, Salt Lake City, 10:19 Sat. 2/26. XEPRS-1090 was off just long enough for one ID by WBAL MM 3/6 @ 6:17am. KHCS-1010 Phoenix, replacing KCAC apparently comes on @ 9am, changing religious programs @ 9:30. Now for MM 3/20. Trying for KTYN-1430-TEST, instead I heard KALI NSP; KEGE Santa Clara going off @ 3:06; & KELL AN-SPU w/HX @ 3:20, no KTYN here. WROK-1440 testing again, 4:46 ID. CJJC-850 Langley, B.C. seemed to be AN; covered by KOA the rest of the week. CJBC-860 Toronto way on to @ 6:15am. KEPS-1270 finally IDed @ end of f/c-TT @ 6:47, u/KFJZ. Incidentally, 1270 is the only regional frequency with an audible ANer Tues. through Sun. 1470 has KNDE, but very weakly. DXing on all other frequencies has to be through ANs, or checking to see who might be off the air accidentally; it does happen! Since 9/15 I have heard 491 U.S. & Canadian stations, IDed, & several others unID. At least 48 Mexicans, & several Asians; but no IDs heard, so not counted; probably some Cubans, & CAs or SAs, but again, no IDs. In conclusion, just roam the dial, see who isn't there, and concentrate on those frequencies. DXing nights, and taking day naps helps run up the total. Best wishes to all in DXing & verie collecting.

BRUCE WINKELMAN - 1404 Alumni Place - Lawrence, Kansas - 66044

Long time, no Muse, so here goes. Schoolwork has really KOed my DXing the last month or so but still some things have been heard. 3/5- KOLT-1320 w/local ad, ID, then into "Main dragging music" @ 12:53am; WKAN-1320 up out of nothing w/s/off-SSB @ 12:59; WVOQ-1320 w/SID @ 1, then into that GOOD c/w mx, my first Floridian. 3/6- WPOK-1080 w/NX/NX @ 6:58pm, then s'off @ 7 w/no SSB. 3/11- KNAB-1140 w/NX @ 7:55pm mixed w/ RV, s/off announcement @ 7:50 dominated WRVA till 8pm w/SSB. 3/18- DXing from Ellinwood again: WBRC-960 w/ID @ 1:17am, then into mx, my first Alabaman. 3/22- WPRO-900 w/farm NX, then mx @ 6:24-6:27am, ID @ 6:30; KRNV-880 now apparently on RS as heard here this morning @ 9:24am, about time they went PS - they had been testing on 880 for almost a year. Well, that's about it from me this time. Probably the last Muse for some time as personal commitments will make it difficult to find much time to DX in the near future. But, I'll be back. DXing is too great a pastime to just drop on the spur of the moment. 73 & best of DX to everyone. (Well spoken, Bruce - Hurry back!)

RUSSELL J. EDMUNDS - Box 946 - Wayne, New Jersey - 0747.

Would you believe another Musing? Right. This one is short, though. A few interesting unIDs this winter on the domestic scene: any help will be appreciated. 11/29- 6:55pm, Sun. evening religion program w/ID as "Youth Radio" on 1460, probably S as CX Aurora. 12/20- 2:48am, (this one foreign) a Mexican on 680 w/R. Seisienta Setentas (sic-RJE) o/u R. Tumbes, XELG, WAPA & an HJ. 12/27- 2:30am on 129C, a program ending (syndicated) "The Night Hour" w/address Box 334, Harrisonburg, Va., so I suppose I'll end up writing them for indie list. 1/20- 5:10pm, ID on 1510 w/"600 in the Capitol city" S or SW by temperature 2/5- 1500 12:20am & on w/TT weak u/KSTP/WDBE w/WACP off, not WGMF nor WDEF. Same date, a PoP on 970 w/several varying TTs before WRAY's /c @ 1:30-plus. 2/7- 1340, PoP w/ here 1:10 & on, & an SSS iter on 1220 w/FM promo for a new program starting 2/28 on WCOF-FM (phonetic equivalent). This heard 2/21 @ 6:17pm. Finally a TT strong u/HITS /c 3:19 2/21 AM. (WGM TTed a lot of WMs in Jan-Feb -ERC) More of this inaplicity from more recent DX in a later Muse. CX here stink lately w/wise, static on the upswing, & less DX due to work & civic things. Ch - one n more unID, hi, this LN on 2/21 1:33-2am w/ID of two sharp dog barks, in SG. (Log

barks in SS? Woof-woof si-si? -ERC) On other matters, due to postponement of YAB land get-together, N.J./N.Y. one probably will not occur in June as noted previously. 73. (Russ, please double space?? -ERC)

BILL COLEMAN Jr. - Apt. B-2 - 105 Salem Circle - Raleigh, North Carolina - 27609  
Hello to all once again! If anyone is interested in some back issues of the following, please write: Broadcasting, Billboard, Broadcast Engineering; BME; DS; S9; EI; PE; etc., I subscribe to just about every magazine there is, hi. The Friendly Candy Company (FCC) paid a nice visit to several of the local Raleigh stations. Everybody came out clean, except for 1240 super-pest (no SPs any more). I understand they got them for over-modulation. Now I can listen to 1230 & 1250, hi. Anybody want to trade QSLs, please send me yours, & I'll QSL 100%. I always like to receive mail just so I can make the milman work harder, hi. He must think I'm a big movie star or something. 73s, & above all, PEACE!

RONALD J. MUSCO - 16 Chestnut Drive - Windsor, Connecticut - 06095  
March DX: 3/6 WOCB-1240-TEST heard good 12:39-1 w/TT that sounded like a falling bomb. I tried for CFCE-570 but WKBF was there but very weak, no sign of CFCE. 3/7-1111 KIWA-1550 TEST heard excellently 3-3:30 w/static. 3/7- WSYR-1360 Rutland heard poorly again w/ER for the state, time 11-11:35pm for another try for a verie. 3/13- WHIO-1250 heard @ 2am & on w/AN show & few spots for #22. WKDR-1070 finally heard through the WPIC-1030 clog @ 5:30pm. 3/20- WJER-1300 TEST w/c/WPER w/jingles, TT & organ mx 1-1:30am. Then I heard r/c from WPJD-1550 2:45-3 & WORV-1580 3-3:15. Both checks used organ mx. WORV is my first Miss. Verie: v/f- WHIO KIWA WOCB WKDR WNPV. v/q- CEEM KXIL. A loop antenna kit from Ralph Sarserino has arrived here & is built (took about two hours & was simple to construct) awaiting use. Maybe by next season I'll have it wrung out. 73.

JIM REID Jr. - 4 Clancy Street - Swansea, Massachusetts - 02777  
As I prepare this Musing, I am reaching the end of my short-lived vacation from school. DX here hasn't been all that bad over the past week, though at least for me anyway. Here's what's new: 3/7- 5:57pm, WPCB-1300 c/heavy jumble w/ad for Washington, D.C. area; they played rr & specifically heard "Morning Side" @ 6:02 on a very rapid signal rise. I heard an SSB @ 6:15 from another 1580 station. 6:26, WMOB-1390 w/ID only in a big mess; 6:40 WRCX-990 w/WKKE off & no sign of WIDG; a very steady signal. 3/8- Noon, a good piece of daytime DX in WJLS-1420 heard w/u/WBEM in the best null I could possibly get (it wasn't much!). They use Mutual MX jingle for their own EX; I heard MoR earlier. I guess I can get this one any time I desire, thanks to Narragansett Bay. I heard WPIM-1390 a bit later; a really tough one here because of local WALE-1400. I heard Plymouth in hope for WCAT-1390, which hasn't been logged yet. 3/9 is probably the best night I've ever heard for IAS. Here, the evening began w/a log for WDMV-540 just after WJLX s/off I heard WDMV s/off w/SSB. 4VEC-830 was in @ 6:15pm. TVQT-1110 s/weak WBT @ 6:13 w/ID "R. Carupano" & bells. 6:50, very strong YVWF-1120 w/SS under; SS u/WRKO-680 @ 7:23; HJJK-750 specific ID from Colombia w/jumble including some WSB; 8:08, YVRS-1020 heard w/slogan "R. Margarita" quite strong a few minutes earlier; 8:15 YVNM-1000 R. M11 very strong & no WCFL; WJNS-1010 completel covered by two SSBs, that's usual! 8:22, SRS-725 till 8:30 w/easy listening x & a female announcer in Dutch, all alone between heavy 720/730 QRM; somebody really cutting through WBT-1030 on 1035 w/very pleasant mx @ 8:35, I think 4VEF but checked 830 & not //4VEC. Is this right? (They're not always parallel - ERC) Also, 197 WRTH says 8:30 s/off. 8:58, YVQC-640 ID u/CMA in search of Guadeloupe; heavy QRM in tough WNBC-660 null, no logs. 10-10:38 I believe I heard R. Lumiere-760 in jumble/hum, no WJR. They carried a religious program until 10:37, mx (instrumental of "Raindrops Keep Falling on my Head") UPI NX @ 10:30, then pop mx @ 10:35. Very friendly male announcer - sound like 'em? Oh ERC, what is a v/q? 73 & good DX. (A v/q is a QSL card, or printed verification card from the station -ERC)

WE ARE NOW INTO OUR OFF-SEASON SCHEDULE FOR "DX NEWS". THE NEXT ISSUE WILL BE DATED APRIL 29, MAY 13, JUNE 3, JUNE 24, JULY 22, AUGUST 26, and SEPTEMBER 16. WE RESPECTFULLY ASK ALL WHO DX IN THE SUMMER MONTHS TO SUBMIT REPORTS TO EDITORS.

RONALD F. SCHATZ - Box 2,814, AMF - Miami, Florida - 33162  
Greetings! Say, did you know that Gleason is living here now? He's sure got a lot of money! I'm speaking of JACKIE Gleason, of course, hi. Well, now that we're over the hump toward Convention time we're starting to move. VQA has been warned of our plans to trespass onto government property Saturday afternoon. By the way, their address is Box 726; Marathon, Fla. 33050, but send all reception reports to Washington, not here. VQA's phone is 305-743-6444, if you care to chat with the CE. Of the questionnaires, only 22 were received - scheisse. Among the expected showings are Brad Lanes (N.J.), Cliff Reno (Col.) Dave Bennett (B.C.) Gordon Nelson (Mass.), Russ Edmunds (N.J.), Wilfred Ritayik (Fla.), Vincent Cavaseno (N.Y.), Bernie Duffy (N.Y.), Greg Galkin (D.F.) (?? -ERC); Alan Merriman (Va.), Walter Rogers (Fla.), Dr. Richard Wood (La.), & Andy Rugg (P.Q.) Many others will be here who have not submitted questionnaires, like Erickson, ERC, etc., so we should have a surprisingly large group for such a location. We'd also like to see Krejny, Dangerfield, Taylor, Foxworth, Plunkett, Godwin, Thomas, Starr, and YOU. Food choice is American or Cuban. The game will be boozing. GPN sants a hurricane, Cubans off, and free beer. Half of the group is interested in FM & TV DXing. On rental cars, Hertz offers their \$7.47 per day special, and another company offers \$50 for a week, unlimited mileage, so get one if you can. Also bring light, comfortable clothing, like shorts, sandals, summer shirt, sunglasses, etc. Swimwear is a must for your wardrobe. If at all possible, bring your receiver, especially a good portable. Well, Richard Clark is back from Callao, & has some invaluable info on stations in the Lima area. And I wonder if Lash Larue ever retired, hi. Don't forget the Convention, for it's Miami - minus 20 weeks - in '72. 3's & 8's, as thd CBers say, hi. AS for CBers, Ron... you know better than that - CDP ERC --- D.F. is "District Federal" in Mexico (i.e. Mexico City)

JERRY OSBORNE - 763 Canterbury Avenue - Ottawa 8, Ontario  
Time for another Musing! I received a verie from CFGM-1310, Toronto, for logging made MM 3/13 w/local CKOY off. CFGM was on "emergency" XR, which runs 250w. They have a 10kw "standby" rig as well as the regular 50kw. XR. Best USA station on 1310 was WIFE Ind. Nice to get an NSP local off now & then. Verie from WGRP-940 Pa. for ET has nice note from CE stating they have been heard in Malawi, Africa "around 10:30 in the morning, daytime." Let's see, with seven hours' difference, the path largely if not totally in daylight, 1 kw... Conclusion? DX-wise here, the best catches have been WNAX-570 S.C. & CJCN-680 Nfld. The "Newfie" was in for a few minutes with powerful signal @ 4:35am MM 3/20 w/frequency moderately clear, except for WINR & a TT, u/ID. That makes Nfld. #6, and makes up for my missing CFCE-570 a few weeks back. I am still waiting out report to CFIR-790, N.S. for a logging 12/27/71. I guess I'll have to get a f/up away to them. Anyone know if they verify? Verie has arrived from WOBK-1530, N.C. for TEST in Dec. '71. I will close now, best DX to all, & 73!

20742.

JEFF KADET - Box 726 - Denton Hall, University of Maryland - College Park, Md.  
A new one on 3/19, an ET/OC, was WCOM-860 from 2:45-2:55am in the clear. Later in the day, WARR-1520 @ 6:15pm s/off (N.C. #150). On MM 3/20 we got WCON-1450 r/c-variable TT from 1:16-1:22am, note that this is after the time listed in a recent DXDD. WJDA-1300-TEST heard briefly @ 2:39am but almost impossible due to WDBR & the first harmonic of campus station WMUC-650. (Acampus station is on at that hour?? -ERC) Later, WGLW-1170 noted for the first time @ 6pm s/off. 3/21- WPED-810 r/c-TT 12:05am (#10 on frequency), WCLIA-1470 ET/mx 1:15-1:17 (#30 on 1470) & later CFML-1170 RS/FF 5:42pm were new. CFML has a tremendous signal this day. On the 22nd two more new ones heard on 1170, WWLE @ 5:44pm and WERW 6pm s/off giving me ten domestics on the frequency. MM 3/27- I had to get up @ 5am yo study for an exam. I nabbed WFLN-900 r/c-TT 5:15-5:30 (no mx heard as listed) and KTHD-1480 r/c-TT 5:30-5:44 (#30 from Arkansas). v/f- KIWA. v/l- WTRG WNIC WCCR WJZM WBRV WCOM. Domestic totals at 1,707/727. 73.

JOHN TULL - 5539 Oak - Kansas City, Missouri - 64113  
New veries ha! Only one, KSVN-730 Utah. Reports off to KRVN-880 Neb., KWFR-1260 Tex. & KGRT N.M. KGRT really had a great signal into K.C. on their TEST. I almost have my code speed ip to 15 W.P.M. This is preventing much DXing though,

drat! I just completed a 36" loop & used my cascode F.E.T. pre-amp. It works great! The better half said it looks like a portable closeline and now she wants to hang her hose up to dry on it. Have you ever DXed with a wet sock in your face?

THOMAS R. SUNDSTROM - Box 205 - Willingboro, New Jersey - 08046

With the new job in the Department of Education, I get to do some travelling around the state. I found the reason why I haven't heard the new WPRJ-1310 is that it isn't on the air yet, while going through its town on N.J. Route 10 near Dover. I think I found its antennas, on 10, E of WRAN-1510's towers on the same road. This on 3/22, and on 3/24 after leaving Somerset County College in Somerville I stopped at WBRW-1170 and spoke with Don Powers, C.E., who showed me around facilities and explained some of the problems with WHLW just down the state. Both stations vastly curtail power going into the territory separating the two. WBRW has not detuned high tension line towers near its XR & though the major lobe is NW, backscattering caudis surprisingly good coverage into New Brunswick. WHLW has a fat forward lobe SE, but also pulls in its tail to the NW; is apparently having pattern problems, according to Powers. WBRW's four towers, in-line, are sitting in a field that has a healthy-sized stream running through it. F/c is apparently going to be done on RS by an outfit in Maryland, quarterly. PoP will be next Fall, next time WBRW will be on after midnight. What little maintenance is required is done following s/off. The 2/14 TEST was not on the air due to a death in Powers' family, and not because he chickened out with WWVA on the air. I informed him of the possibility of code IDs (as witness WCVR-1320 and WBAT-1400) of MM when WWVA is on 5kw. AXR, and new WWVA SP. I left a card with him asking if something comes up to cause early AM operation, to notify me for passing around. He seemed very interested, extended an invitation to others passing through. It is difficult to find, in E side in middle of Finnerne Farms (when driving E on Main Street, look to your right for towers and find a street that crosses RR tracks). He's busy, I'd suggest you call first. An aside: I have Popular Electronics magazines (1/68 - 5/71) for \$14; Electronics Illustrated (1/69-11/71) for \$12 including 11/63 special project EI; also Electronics Experimenters Handbooks 1958, 1960, 1964, & Radio-TV Experimenter three issues first half '68, and 7/59 CQ antenna issue for \$2, for sale, or less 10% if all taken at one time, plus shipping UPS. All clean, complete within dates specified above. Or swap =make offer.

GARY SHEA - 3159 Spath 55 Street - Milwaukee, Wisconsin - 53219

I joined the Club last October and this is my first Musing. My age is 17. Since that time haven't been ~~missing~~ much because: 1) I had a job but I was laid off on the day Nixon said unemployment was DECREASING, (I didn't mean to say "on the day", I meant to say "on a day"). 2) The other reason was a happier one - my school, Hamilton, won the state HKB tournament in Madison. I heard the KIWA TEST on 3/6 - it really bombed in. The announcer said calls came in from Albany and Great Neck, N.Y. Radio receivers here are a TRF, a BC-348, and an old Grigsby-Grunow from the 20s. Veries in recently are WHBT (v/1 w/sticker) and WERU v/1. I doubt if I'll make it to Miami because school starts in August and Florida is a long way away. Good DX. (Greetings, Gary, and that's a fine stadium you have out in Mets land! We hope you'll Muse often! -ERC)

PETER A. ROMEIKA - Box 175 - Mount St. Mary's College - Emmitsburg, Maryland 21727

Hello again - this is my second Musing. This is on DXing here at school, mostly locals. Reception is kind of poor here, because of the mountain in back of the school. I have to turn the radio a certain way to pick up stations. I'd like to say hello to Mr. Joe Jones, NRCer at WDEL, one if my first v/s, back in 1969. He tried to get me to join back then but I never got around to doing it until now. Here's some DX: WTHU-1450 Thurmont, Md. 10:43pm, WHVR-1280 Hanover, Pa. 3/22 12:42pm, WORK-1350 York Pa. 3/20 2:55pm, WTAE-1250 conducting test on 3/19 @ 2:37am; finally, WBSA-910 York, Pa. on 3/23. I can't wait to get home for Easter. I hope to do some listening then. Good DXing to all, and 73s. ERC, I hope this is not too long -keep up the good work.

THE NEXT ISSUE FOLLOWS IN TWO WEEKS, THEN THE ONE AFTER THAT, IN ANOTHER TWO WEEKS. BE SURE TO MUSE AND GET THEM HERE, DOUBLE-SPACED, BY 4/6 and 4/20. -ERC

PIERRE TREMBLAY / 1124 2e Avenue - Quebec 3, Quebec

Hi! DX season has been deceiving so far. CX are now much better & I hope Spring will bring several new stations. 3/6- WIP-610 on top C 12:30 am & is now a regular on MMs. 3/8- 10:30pm WSYR-570 w/an unexpected appearance of WMCA; WSYR usually gets the best of WMCA at SRS & SSS. 3/9- At 12:10am, WSYB showed up on 1380 w/sports. 3/11- WRCW-590 heard for the first time in several months! Time was 12:45am. 3/15- A new log @ 5:30pm w/IRD dominating 920. This station was much-wanted at SSS. Since last October, my best picks have been recorded at SSS & SRS, at which time WMEX & WKBW are extremely strong. I expect to join IRCA soon. I probably got enough interest in the hobby to be a member of two clubs. I guess IRCA is one of the abbreviations which are not welcome in your column, ERC, along with SW. (We've got nothing against the South-west, hi -ERC) I hope to have more interesting DX to report soon. Meanwhile, would Capt. Glotz be good enough to dynamite WNEB & WTICV (we understand he's going straight! -ERC) I WOULDN'T COUNT ON IT. ERNIE; I KNOW HIM PERSONALLY. HI-- CDP  
DOUG SHARP - 5524 West Willow Highway - Lansing, Michigan - 48917

Warm greetings to all of my fellow DXers! The Winter DX season was a disappointment with only 30 new loggings since 11/16. I bombed my Portuguese course and hooked my DX-150 for a diamond for my girl friend. The DX-150 was raunchy on the AM band, anyway, so no great loss. So working 20 hours a week and going to school made for little DX. Much of that came on my car radio going to work, w/CJKL-560 & KSAL-1150 coming in that way. 12/4 was the best DX night this Winter, w/KSAL-1150 YVLX-570 YVQO-640 KMMJ-750 HJCY-810 HJED-820 & KREX-1100 logged. 12/8 was decent too, with tentatives on TIRICA-625 & an UNID SS between 640 & 650 looped toward Africa, possibly EAJ203, Spanish Sahara. I also heard WYLD-940 KIOA-940 WBRG-960. KTWO-1030 was heard 12/16, Wyo. #1. 2/2, I taped several IAs for my Portuguese class and while trying for R. Globo-1180, I got a nice tape of HIBE, Radio Mil, also CMKJ-730. Loggings for March: CJTR-1140 poor 3/22 @ 11:35pm. CJRW-710 3/23 @ 12:06am. CJRP-1060 & WILY-1210 3/24 @ SSS. I hope I'll be able to DX more often next year when I get out of college. I'll be in the Navy (cringe), and might have more time on my hands. New DX location, Adak Island? 73s.

DAVE SCHMIDT - 8 Valley Terrace - Apt. 9 - Wilmington, Delaware - 19802

Hello. I figured I'd get in a couple more lines from the First State. V/1 from WNIO-TEST, v/c from CJCB. DX - not too much of late. 3/20 was a good MM here, first one in about a year, hi! I reported & called WJDA-TEST in well at the start (S-7) 2:05-2:21, equal to FER through the whole time. KIUUC-1140-TEST in well at start (S-7) 3:05-3:17 for Nev. #3. The infamous WBES-1480 r/c was heard 3/20 3:15-3:30, testing their "transmitting equipment", Mr. McCloud at the mike (He's the owner, hi!) KUDL-1380 very weak @ 3 s/off, not bad for 500w, WICY testing w/OC. On SM 3/19, on 1,560 again, WVAK bagged @ 6:14 son, then WAFI @ 6:15 both taped, WAFI reported, both gone by 6:19. 1560 is an interesting frequency on SMS. KKJO-1550 is AN SMS w/a female DJ, ECers. KXEL-1540 also noted off two SMS already, along w/their regular MM SP. On 3/22, WINX-1600 on top 4:20-4:25 w/rr, very rare here. Former NRCer Dennis Waters, now at WPGC. Since no work has been found, although I am working at WIFL Philadelphia on a "fill-in" basis, I've been working on the den here, & hitting the dials daytime, & there is a difference in just a ten mile move S of Chester. The cross-modulation here is horrible though, & the Penn Central doesn't help matters either. Anyway, the most interesting daytime DX from here is that WCMS-1050 WTID-1270 WGH-1310 & WKLX-1350 are all readable days along w/such things as WTHU-1230 WGBB-1240 WWIN-1400 WFAM-1390 WHAM-1180 making it on a regular day basis. Amazingly, WNRK-1260, Fischer's local, is not readable at a good level here, only about 100w this way. Stations in this region are now up for their two-year license renewal, & an informer says Rollins, Inc. (owners of WAMD/ RAP/WBEE/WGEE/KDAY) are in for some roughing up because the FCC didn't like the way they were running WNJR. The grapevine also said WEEZ hasn't even started work on the forms for renewal, & that a CP is to be issued for them to move, towers & all, to a new location, two miles W of where they are now. If it happens this time, it'll be good news for Ben. Phone here is 302-762-2852. How about forming a WADland - Wilmington-area DX-ers? Where are all the YAD cats? Seems Boy is the only one DXing there out of nine. Sort of a let-down. Viva ERC for his great work.

DAVID KABLE - 29247 Waldensa - Wickliffe, Ohio - 44092

This is my second Muse, w/a few things to report. Like Andrew Robins, I am another sophomore high school DXer type in the NRC. Now there's three of this rare breed in the NRC. New v/qs here are KFYZ-550 N.D.; CJKL-560 Ont.; CFCB-560 Ont.; CBJ-1580, Que.; KSL-1160 U.; KCBS-740 Cal.; XETRA-690, WTMJ-620 Wis.; CJBC-860 Ont., WJJD-1160 Ill., WDOE-1410 N.Y. WWRL-1600 N.Y. makes me sick! I can hardly get anything else at night on 1600 than it. They must be putting out more than 5,000w, hi! (Go 15 miles N of NYC & you'd think they were off the air! -ERC) Alan Gibler, I believe I'm probably the nearest NRC member in your area. I'm ten miles NE of Cleveland. WGAR-1220, a local, is my biggest pest. WJW-850 is a little pesty, and WKYC-1100 is no pest at all! At least, WKYC isn't an NSP. WGAR is. On 2/21 was my first MM. I got four new stations, & KMMJ-750 test, verified. Today, 3/27, would have been my second MM but I wasn't in a "radio mood" & I just turned the clock off & went back to sleep! Joe Markewicz, I'm sorry to hear your issue #19 got ripped in half in the mail. If that would have happened to me, I would have thrown my loop at the mailman, hi! They charge so much for postage, & your DX NEWS gets ripped up once in a while, plus 80% of my v/qs are ripped, & most of them have little blue numbers on them from a postage machine, I guess! Does everyone else have this same problem, or are they just doing it to me? I hope HQ hurries it with the New Member Kits, & the \$325 they owe me. Someone please let me know the addresses of some TV DX clubs - but don't worry, I will never drop the NRC. In this city of 20,000, there's at least three serious BCB DXers, & two serious TV DXers. 73s & more soon!

JEREMY AURELIO FORSTER VALDES - Box 245 - Wolfville, Nova Scotia

I heard Glenn Hauser's program on TWR. Entire program was taped, as it was in quite clearly. No mention of NRC. However it was an interesting program. When is the next? IDXD writers: I am not from P.Q. & I haven't lived there since I was a little kid. Valdes is Spanish & from my mother's side of the family. Anyway, I did give my address. Well, latest news is that Capt. Glotz raided my place and sabotaged my Marconi CSR-5A. Since I joined NRC my medium wave DXing has gone up while SW DXing has gone down. Now I'll get no SW DX until it's repaired. Just when the 60 meter band was looking so good! As I do most of my BCB DXing on my ten transistor set, I shall be MW DXing more than ever. I coaxed Capt. Glotz into leaving my non-MW veries alone by giving him some valuable info. Cesar Objio is reporting to Sweden Calling DXers. He left in a big hurry towards the South, hi. Veries received: WHAM-1180 v/q, six days, HJAX-1550, La Voz Portena, Barranquilla, pennant & v/q, only 13 1/2 days; WABI-910, Bangor, Me. v/1, 6 1/2 days. I now have three U.S., two Canadian, one Colombia, and one Belize. My 600' longwire gets a lot of IA stuff, but I've never heard anything further than Colombia or Venezuela. I'd like to get an SM-2, but what is the address for particulars? Till next time from the best DX site on this planet, 73s y el mejor DX para todos. (JOE WORCESTER, how about some promo for your SM-1 and SM-2 for DX NEWS?? -ERC)

DEE EGGERT - 321 Hoffman Court #8A - Crown Point, Indiana - 46307

3/27. Hi. No DX to report, but one note that may be of interest to our EC & D.C. area members. While reviewing an application at work for a zoning permit for Telesis Corp. (WLFI-TV, Lafayette, Ind.) for a cable TV tower, I ran across a phone number for FCC info on the past week's action - 202-632-0002. It gives all relevant data for call changes, etc. so it might be of aid for you D.C. members. As usual, I've let the balance of the DX season go by without DXing. It seems work and school, etc., are always the biggest hassle in mid-Winter. I took a week's vacation in New England skiing & heard all sorts of exotic stations we never hear out here in the Corn Belt. 73 & Peace.

ERIC MARICCO - 540 Gallion Avenue - Pittsburgh, Pennsylvania - 15226

Well, I decided to send in another Muse. I hope this one gets there the first time around. The DX season, proper that is, is just about done here. We had a thunderstorm last week. DX has been of the "not quantity, but QUALITY" type of late. Chances to listen have not been too plentiful, but things are looking up. SSS on 2/28 found WFJD-1550 in unexpectedly. I've yet to get up

**IDXD INTERNATIONAL**  
DX DIGEST  
PROPAGATION & FEATURES

GORDON NELSON 48 HARDY AV. WATERTOWN, MA 02172

### REPORTEDLY IN OPERATION...

IRELAND. The new Irish language station at Connemara made its first test transmission on 2/26 on 539 kHz at midday. This one is expected to operate about 2 hours a day until the studios are completed late in the summer when it plans to extend the schedule. The new station in Donegal on 1250 is expected to have begin operations about now; also the Kerry station on 962. These new low powered Irish stations probably will not be heard in North America until next season. (MWN, Editor)

USSR. Radio Moscow is broadcasting on 1423 kHz; no location or power info available. Can you hear this one, Zbigniew? (ARC)

CZECHOSLOVAKIA. Station noted on 704 by EBU.

TURKEY. Istanbul II is now on 966.5; good news for next season if they stay off channel. (EBU)

YEMEN. Sanaa's 10 kw station on 1203 noted by EBU in Finland recently.

ALBANIA. Radio Kukesi on 994 kHz has recently extended its schedule and improved its modulation from very poor to rather poor. (ARC) Never a peep from this one in North America... Editor.

SYRIA. Damascus Radio has changed its local frequency from 963 to 885 kHz.

CYPRUS. Radio Monte Carlo's new relay station on 1232 is on the air 1500-2100 with 20 kW. Reports go to B.P. 128, MONTE CARLO. (ZO; MWN)

BANGLADESH. Dacca is using 690 and 1170 from 0030-0230, 0600-0830, and 1100-1600. Dacca is relayed by Chittagong-870, Rangpur (?) -1050, Rajshahi-1080, and Sylhet-1140. (Radio Australia DX program relayed by Bob Bundy on Truk)

MASARAH ISLAND. Despite its absence from the latest EBU internal report reprinted recently in DX NEWS (exclusive in NRC), Bob Bundy in Truk reports that the high powered but very directional BBC Relay station on 701 kHz is still in operation and being heard in the South Pacific. We remind our readers that the EBU which appears here several times a year is not a tabulation of all stations in the European Zone known to be in operation a la World Radio Handbook. Rather it's an internal working document prepared for the European Broadcasting Union which contains the pooled receptions made at the 7 EBU monitoring stations scattered throughout Europe. The absence of a station from the EBU which we run does not mean that the station has been officially purged from the EBU's European Zone allocation lists; it merely means the station has not been heard at any of the EBU monitoring sites during that period. This

also explains why the EBU list occasionally contains "odd" items such as SRS-725, CBA, etc. (Editor)

### PROJECTED OPERATIONS, RUMORS, & GOSSIP...

FRANCE. The present 100 kW operation on 1277 will be upgraded to 300 kW in the near future. (ZO)

ANDORRA. Sud Radio plans to increase power from 600 to 900 kW in October of this year. (MWN)

CANARY ISLANDS. EAJ43, Radio Clube Tenerife on 1412 will soon boost power to 10 kW. (Cimberer DXC)

GREECE. The VOA's new relay site at Kavalla will include a 500 kW MW station; this new Greek VOA station will operate on 791 kHz according to US Government sources. (SCDX; Editor)

### CLANDESTINES, BOOTLEGS, AND PIRATES...

INTERNATIONAL WATERS (HOLLAND). Radio Nordsee International is supposedly now operating on 1511 kHz in parallel with its 49 and 31 meter band SW operations. Still unheard in Poland however. (ZO)

SCOTLAND. Radio Free Scotland is heard in the UK on about 1150 kHz. (SCDX)

ISRAEL. Several reports have appeared in the DX press about a new station, Radio Eilat, reportedly "the first commercial station in Israel". Recent info in SCDX from a reporter in Israel indicates that it was a strictly illegal operation which was forced to leave the air as the Israeli equivalent of the FCC was closing in. Reportedly this station operated with moderate power on about 1430 kHz and will return to the air shortly. (Various sources)

### UNCLASSIFIABLE...

I have heard some of the beacon stations listed in DX NEWS number 16 plus several which were not listed, namely: 890, "GD"; 908, "RZ"; and 940 kHz, "ZU", but I don't know where they're located. (Ogorek, Poland) I think that GD is Ouchgorod, Ukraine, Zbigniew; RZ might be Rostov, USSR on 944. GD is a complete mystery; how about some direction-finding bearings? (Editor)

**DX NEWS** is published 32 times a year - weekly during the winter DX season. It is the ONLY magazine in the world that deals exclusively with the hobby of MW DXing - and has been for almost 40 years!

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FOREIGN RATES AVAILABLE; write for details

# DXtras West

EDITOR:  
 Blake Lawrence  
 Box 803  
 Canon City, CO 81212

Greetings. Not much to say in this space, except maybe a futile plea for more reporters, hi. Remember, I publish station slogans in the format section, and reports of this nature are, of course, welcome. When reporting your dominant stations, please give dominants during the day, at SSS, evening, AN, MM, and SRS when possible. This column will be short, but I can't see extending the deadline, since I don't expect any more reports to sneak in.

### SECTION ONE: UnID's-

930 Unid s/on 8:05 2/27 am with chorale SSB, then seemed to give amnt followed by the last few lines of the SSB repeated. CJCA & KHJ were just too strong to allow any ID to poke through. (BP)  
 +Several possibilities: KIUP, KSEI, oodles of daytimers. Perhaps someone knows a stn on 930 w/this rather unique s/on format? [BWL]

860 unid s/on w/SSB 0505 MM 4/3. Very weak and soon lost to XEMO/KONO mess. WDMG-Ga is listed s/on at this time (or rather, at 0500). Could it be they? [BWL]

### SECTION TWO: FORMATS

1230	KWYZ	WA	*uptempo MoR	(BP)	
1420	KYNG	OR	*rr	(BP)	
1480	KBEA	KS	*easy listening/MoR	(BWL)	What a monstrous format section, hi!
1510	KURB	WA	*uptempo MoR	(BP)	
	KIRV	CA	*subdued MoR	(BP)	

### SECTION THREE: Q & A

How does one differentiate between sky wave reception and ground wave reception by listening to the station? Or can you differentiate them merely by listening? (BW) +Only guesses here, Bruce, so will wait and see if anyone will send in an answer to this interesting question. (See next page; GPN)

### SECTION FOUR: DOMINANTS

980 kHz:  
 "Daytime: WSUB Groton, Conn. (125 miles). Night: WTRY Troy, NY., WILK Wilkes Barre, Pa., WRC Washington, D.C." (LA)  
 "Day - CFPL Ont. Night - This may sound strange, but WRC - Washington D.C. is very strong dominant, WONE - Dayton, O. is weak, only received once." (DK)  
 "Days: CFPL. SSS: WTRY and CFPL fighting it out; WILK in background. Nights: WTRY/WRC/CFPL, none of these remaining on top for very long." (TK)  
 "CKNW is audible morning, noon and night, NSP. KINS, KUTI & KVLV join them on SSS KINS is under them evenings. And CKRM/KFWB are o/u them AN & on MM's." (BP)  
 "KMBZ both day and nite, haven't been able to hear anything else on 980. Drat!" (BW)

Days: Clear except for KFEL slop. SSS: KMBZ, KICA, KGLN. Eve: KMBZ, KICA fight w/KMBZ winning most of the time. AN: KMBZ & KFWB; again, KMBZ atop. MM: KMBZ, KFWB, and CKRM. WSIX has been heard w/KMBZ off. [BWL]

1550 kHz:  
 "WEXT W. Hartford Conn. (110 miles) Night: CBE Windsor, Ont. (like a local 98% of the time.) Ten other stations have sneaked in from time to time around sunset." (LA)  
 "Day - CBE-Windsor, Ont. Night: CBE very dominant, WKBA-Va caught once at sign off." (DK)  
 "Days: nothing but CHIN-1540 splatter. SSS: WKBA and CBE usually in that order; also WKYE and WBSC in Dec.-Jan. Nights: CBE solid." (TK)  
 "KOQT days. KRCO/KGAR/KKHI on SSS. KKHI evenings and AN, on rare occasions I can null them and get WOKJ or KKJO. XEBG is usually here MM's." (BP)  
 "KKJO days, KKJO and WOKJ nites, WOKJ usually dominates." (BW)

Days: KQXI. SSS: KEDD/KQXI/KRCO/KKJO/WOKJ mess. They all take turns dominating Also, KUAT strong till s/off. Eve: KKJO/WOKJ fight. AN: WOKJ and XEBG. MM: KKHI till s/off, then XEBG. CBE good after their s/on. [BWL]

That does it for this month. Next deadline will be 5/1/72. Dominant freqs will be 680 and 1380. Have fun DXing in the static, all of you, hi! 73 de BWL

EGAD: I forgot the reporters for this time!!!!!!!

(LA) Leo Alster, Rahway, NJ  
 (DK) David Kable, Wickliffe, OH  
 (TK) Tim Kerfoot, Weston, Ont.  
 (BW) Bruce Winkelman, Lawrence, KS  
 (BP) Bruce Portzer, Seattle, WA  
 [BWL] Your editor.

I'll try it again, hi. 73 de BWL.

What will BPC do w/rest of page?

#### SKYWAVE OR GROUNDWAVE RECEPTION?

\* Gordon Nelson

The problem of determining experimentally the propagation mode (ground-wave vs. skywave; F layer reflection or E layer reflection, etc.) for a particular reception on the medium wave band is a difficult one. We happened to first begin to work on the problem in connection with deep-null loop design; if you fight your way through the extremely complex mathematics describing how well a particular loop will be able to null a powerful local station you find that the performance of the loop is very dependent upon the nature of the signal wavefront at the antenna - and that in turn depends upon whether the signal has been propagated via groundwave, skywave, or a mixture of both.

As is often the case with practical propagation and antenna problems, there are a number of basic fundamental principles involved (the kind you find in the textbooks) that're easy to talk about - plus some real-world complications that are responsible for the unexpected behavior that keeps the engineering trade in business...

If a medium wave signal is received entirely by groundwave, the signal strength observed at the receiver (say on your S meter) will stay essentially constant on a minute-to-minute and hour-to-hour basis. If the signal is entirely groundwave and your receiver gain stays constant (beware of AC line voltage changes which will change the apparent sensitivity of the receiver and make it seem as if the signal strength has changed) then the strength of the signal will be effected only by the longterm changes in ground properties

associated with major storms, seasonal variations in rainfall, etc. In other words, if the signal arrives entirely by groundwave and your receiver setup stays virtually constant, the strength of the signal received will not show minute-to-minute variations in signal strength... Groundwave propagation depends only upon the properties of the ground between the transmitter and receiver and - short of a dramatic quick climate change such as a tidal wave or hurricane - the nature of the real ground changes very slowly.

During the past few years here at our recording site in Watertown, for example, measurements of the summer signal strength of WCAU-1210 made between 1000 and 1400 local time show only a few db variation on each day; well within experimental error. This is purely groundwave propagation.

During the winter, however - especially around the Winter solstice in December - WCAU's signal strength will vary over several S units (10 - 20 db) within just a few minutes. This means that we are experiencing skywave propagation in addition to the usual groundwave signal; the short-term variation in signal strength from minute - to - minute is the result of the interference between the skywave and groundwave signals. Skywave signals change in strength from second-to-second or minute-to-minute and the mixture of sky and ground wave signals will vary along with the skywave component...

In 1965 we set up a receiving site on the South side of St. Johns in the American Virgin Islands specifically to study the ratio of ground (sea..?) wave signal strength to skywave signal during the midday hours. Each day we measured the signal strength of several Windward Island Broadcasting Service stations on guaranteed interference-free channels such as 695, 1045, 535 kHz, etc. These measurements were made during the Springtime season when MW propagation was expected to be almost exclusively groundwave (since the skywave absorption on MW frequencies is extremely high). On most days we found that the signal strength of these very weak stations remained constant (within experimental error) over many hours of observation - thus proving that the contribution from skywave propagation was very low indeed...

On several days, however, we found that the signal strength of the low-powered test stations would vary greatly from minute-to-minute and hour-to-hour; the test stations would fade from loud and clear to complete inaudibility within a few minutes or less (during the 1000-1400 hour local time period). The obvious explanation was that there was a significant amount of midday skywave signal during those days with rapid signal fade on the test stations. During the same period the Arecibo, Puerto Rico, radio telescope facility was engaged in routine measurements of the daily variations in overhead skywave absorption during the midday period. Comparison of the Arecibo measurements of midday absorption and our WIBS measurements confirmed that the days during which we observed rapid fades on our test stations corresponded to the days when Arecibo saw minimal skywave absorption.

Two years ago we duplicated these experiments from the West side of Bermuda - only we monitored US clears such as WCBS, WCAU, etc. Again we found stable signals during the midday hours on the days when the Signal Corps station at Ft. Monmouth, N.J. measured maximum skywave absorption. On one day we experienced very unusual reception around noon local time - rapidly fading signals from the usually stable East Coast clear channel stations and audible signals from normally far-out-of-range stations such as PJB and CBM. **And that was the day when the Monmouth sounder measured minimal noontime skywave absorption...**

1. If the signal strength remains essentially constant over a period of more than 15 or 20 minutes, the signal path is very likely to be dominated entirely by groundwave. MW skywave propagation is characterized by rapid fading and the effect is usually enhanced if there is substantial groundwave also present. The worst possible case of rapid fading due to the destructive interference of groundwave and skywave will be found in the situation where you've got say a 50 kw clear several hundred miles distant. During the day the signal is almost entirely groundwave (more so in summer than winter) and the signal strength remains relatively constant. **Late in the afternoon the skywave absorption begins to fall and the signal begins to experience quick fades as the skywave interferes with the always-present groundwave signal.** By dusk, when the groundwave and skywave signal strengths may be equal, fading will be very deep and rapid and the audio may be very distorted due to phase distortion.
2. If the station is alone on the channel, you've got stable receiving equipment, and the signal fades on a minute-to-minute basis, then there is at least some skywave present.
3. If the direction of the loop null for a station changes from minute-to-minute (or faster!) then there is either at least one other station on the channel (although it may be inaudible) or the dominant station cannot be being received exclusively by groundwave.

Much can be said about maximum possible groundwave (or seawave) reception on MW frequencies in advance. Unlike skywave propagation, dramatic changes in groundwave reception do not take place. Overwater paths without skywave contributions vary only a few db at most. Similiar paths over ground may show several S units variation after dramatic climatic changes such as rain or snowstorms - but a signal which varies in strength from hour-to-hour or day-to-day by 15 or 20 or more decibels cannot be strictly a groundwave path. **In the NRC Pattern Book now in preparation we will present a variety of maps and graphs to illustrate the limits and expected variation in groundwave signal paths.**

In conclusion: if the signal strength is very stable it's probably groundwave exclusively. If it fades rapidly it might be due to QRM from another station, an indeterminate amount of skywave signal, or instability/drift in your rx. Sorry, but there is just no quick and easy answer...!

-30-

DOES THAT ANSWER YOUR QUESTION, BRUCE (H)...

## DOMESTIC DX DIGEST



Russ Edmunds

box 946  
WAYNE NJ 04070  
(201) 335-6307

Hello again. Looks like we'll have 2 DDQ's this time due to P.O. louse-up. I mailed only about 4 hrs. later than usual, took at least 2 days longer. Argh.

**P/C's -- A WEEK, RUSS! Double-Argh! *elo***

FEBRUARY: 1st SA: WVA-860, WVA-1380; 1st SP: WUP-900; 2nd SA: WVA-1380; 2nd SP: WVA-1380, WUP-900; 3rd SA: WVA-1380, WUP-900; 3rd SP: WVA-1380, WUP-900; 4th SA: WVA-1380, WUP-900; 4th SP: WVA-1380, WUP-900.

MARCH: 1st SA: WVA-860, WVA-1380; 1st SP: WUP-900; 2nd SA: WVA-1380, WUP-900; 2nd SP: WVA-1380, WUP-900; 3rd SA: WVA-1380, WUP-900; 3rd SP: WVA-1380, WUP-900; 4th SA: WVA-1380, WUP-900; 4th SP: WVA-1380, WUP-900.

APRIL: 1st SA: WVA-860, WVA-1380; 1st SP: WUP-900; 2nd SA: WVA-1380, WUP-900; 2nd SP: WVA-1380, WUP-900; 3rd SA: WVA-1380, WUP-900; 3rd SP: WVA-1380, WUP-900.

NEW CHECKS: 3rd SAT: 0105-0130 WANI-1500-NE w/TT noted by Boyd, Osborne (arned. reg. but may be quarterly)  
0200-0210 KCOV-1400-NE w/TT noted, called by Hart, is QUARTERLY.  
4th MON: 0010-0030 WUP-1470-NE w/TT, wavering, statter-type tones noted by PT, RJD, others. Ird 2 & 3.

### ch-ch-ch-changes!

- + 710 CP -IS Eupora, 30744; 250 DL (11/17)
- + 800 WKV-CT delete assignment
- + 1000 CP -KI Albuquerque, 87100; 10000 DL (12/1)
- + 1010 WVA-AR ex-KCAC
- + 1060 WVA-PA delete N.P. Back to SP 12: 0130-0525 (Dave Schmidt, Wilm., DL)
- + 1080 CP -ND Lebanon, 65536; 250 DL (11/17)
- + 1140 CP -AZ Hawesville, 42348; 500 DL (11/24)
- 1170 WVA-TV What gives? Updater and recent DDQ's do not agree on SP... (Paul Hart, Ft. Worth, TX)\*Updater was compiled earlier, and hence, from the confusion in DDQ earlier did not have final info. Matter of fact, I'm still not sure on it myself...-RJE
- + 1230 WVA-TV CP is on
- + 1340 WVA-AR CP is on
- + WVA-ID CP is on
- + WVA-VA CP is on
- + 1400 WVA-IT CP is on
- + WVA-VA CP: 1000/250 UI (pos: 1010) (3/28)
- + WVA-TX CP is on
- + 1470 CP -HR Pecos, 00731; 1000/250 UI (12/1)
- + WVA-TX CP is on
- + WVA-NC Hartsville, 29550; 250 UI (11/17)
- + 1400 WVA-VA Carolina, CP: 1000/250 UI (unc)
- + 1530 WVA-AR delete
- + CP -PA Jeanette 1544 (usari, that spells w/ ten "n" 's - RJE) ; 1000 UI (11/24)
- + 1570 WVA-IT ex-IRP

+ 1570 WTCM-MD CP: 5000 D1 (11/24)  
 + 1590 WHPA-PA CP is on. (Bill Alisuskas, while travelling in N.E. Pa.) 1st day of bog. was 3/8 per verie. (Warren Brown, Ashaway, R.I.) \*\* You get 'em on RS, Warren, or on ET ?? If RS, when??-RJE

daytime

880 KRVM-NH Now apparently on RS here from 1010k as hrd 0924 3/22 w/ a signal which was fantastic even for 50kw. (Bruce Winkelman, Lawrence, Ks)  
 1070 WYOH-NJ Noted 3/12 w/mx, spots, wx ending 1205, ID into talk on gypsy moths. Good sig w/ KYW splash nulled. (Thomas R. Sundstrom, Willingboro, N.J.)  
 1350 WLLI-VA Strong here days w/WORK looped, never readable in Chester w/ old call (Dave Schmidt) \*\* Possibly becuz they boosted their modulation rather muchly, hi - RJE  
 1370 WALK-NY Hrd 3/18 t/in 1100 w/"Memory Lane" segments of Sinatra, Crosby, shows to 1127 ID o/WPAZ w/loop (TRS)  
 1430 WNAV-MD Hrd 3/12 w/ID in midst of rr show promo 1310 w/WNJR looped (TRS)  
 1440 WMVB-NJ 3/12 w/ end of "Rutgers Report on World Affairs" to 1145 ID. Good sig o/WNPV, WAAB (TRS) \*\* WAAB at that hour??? -RJE  
 1520 WTHE-NY 3/12 w/ WCHE looped whilest looking for WSLT, w/ 1400 ID in middle of a church service from Foxy-country (TRS)  
 xx 980 WCAP-MA W/WTRY looped, hrd L&C 1000-1030 3/27, no sign of WSTU (Ron Musco, Windsor, Ct.)

sunset & evening

+ 880 KRVM-NH First hrd eve of 3/6, began RS same day. Sig. for 50 kw leaves much to be desired - I can hear WCNS w/them. SCH. is 0600-0105 (Blake Lawrence, Canon Cy., CO.) \*\* You mean leaves much to be desired for them, not for DX'ers. I like weak 50 kw'ers -RJE  
 1140 KQRC-TX Fair w/TC, c&w 1933 3/4, usual KNAB not hrd (BL)  
 CBI -NS Hrd briefly 3/18 1845 // CBA,CBD but much weaker. QRM from CJRC-1150 w/ WRVA looped (Jerry Osborne, Ottawa, CANADA) \*\*\* Welcome to DDXD, Jerry - report often (RJE)  
 1290 WFBG-PA Hrd 3/27 1846 w/ad for local bank, ID, TC 1847, into mx. Still dominant 1900+ (TRS)  
 1380 WFER-NY Hrd 3/19 w/ID 1800 & 5-min mx, sx, sx o/WBNX,WAMS. Only momentarily atop. (TRS)  
 1560 CFRS-ON Weak in s/off u/WQXR 1830 3/16 (JO)  
 1570 WPEP-MA Semi-local WDEW nulled brought this w/ 10 mins of mx 1725-40 3/27 (RM) \*\* Hmm. -RJE  
 WPGH-PA CKLM nulled brought this s.off SSB 1806 3/27 (RM)

midnight to sunrise

560 KSPQ-CA Finally hrd u/pest KLZ w/poor sig & Bay Area wx 0506 3/13(BL)  
 unID PoP 0220-0310+ no ID's 4/3, loop abt 50/185°. Wonder if was much wanted WCKL testing w/ out DA.... (RJE, PT)  
 570 WNAI-SD Readable in CFRA splash 0415-0430 3/12 (JO) \*\*\* ET??-RJE  
 590 WARM-PA Insipid pest w/ET-TT w/ID 0250 4/3 (RJE)  
 \* 680 KNBH-CA Noted AN several MM's now, haven't been able to check possible Su AM SP (Mike Hardester, Modesto, CA)  
 CJON-NY Strong MM 3/20 0430-40 w/WINR & SS LA. Trying for CJDB, but this a welcome surprise w/ CFTR off. (JO)  
 690 CBF -PQ Fair-good in FF w/ tk, mx w/ CMBC nulled & XETRA actually off!! 0606-11 3/13 (BL)  
 790 KULF-TX PoP from b4 0135 to 0220+ 3/20 (Hart)  
 850 KTAC-WA Good w/RS rr 0412 3/6. Gd sig, never hrd b4, maybe testing 10 kw using RS?? (BL)  
 920 KDES-CA Hrd 3/27 w/ET 0402-18 after sked f/c. Several IDs, rr, good sig w/ no QRM noted. (MH)

980 KMBZ-MO Testing most of nite during 3rd MM SP, ha-joke! (PKH)  
 WSIX-TN AN 3/20 MM. If AN6, when is SP?? (PKH) \*\* Dunno -RJE  
 990 WNOX-IN Noted off MM 3/27 0200 leaving 990 wide open (DS) \*\* Except for WIBG's usual OC, right?? -RJE  
 1020 KGBS-CA Hrd MM 3/20 0355 spot abt Vets Admin., vy wk. (JO)  
 1090 WQIK-FL ET w/ c&w 0405-11 3/20 noted (Wes Boyd, Youngstown, Ohio)  
 1150 KIMM-SD Hrd w/ DX test 3/27 0308-38 w/ lt rr & many ID's. KIIS QRM, sig was fair to good to poor (MH) Short TT's only 0330+ and not 'til 0404 during pauses in KCOC sx did a definite SID & ID come thru. (TRS)  
 WJBO-LA Fair w/ much QRM & KDEF QRM w/ s/off SSB 0106 3/8 (BL)  
 WCOP-MA Insipid ET-TT-OC 0305-0330+ u/ strong KCOC blocked all chance of KIMM here. If you only hrd TT's 0305-0330, don't be too sure... ID'ed 0330 3/27 (RJE)  
 1240 CFLS-QU Noted 0103-0144 during vain attempt for WJEJ 3/19. Had both psychedelic mx & sophisticated jazz & commentary in FF (Andy Rugg, Pointe Claire, PQ)  
 KCLV-NM Topped out @ fantastic level 0128 3/20 w/ ID;s in reg sked pgm. (PKH)  
 1260 WPHB-PA ET-TT 0050 t/in to 0200+ w/ ID's (twice each time) at 0112 & 0201 3/26 (RJE)  
 WFBM-IN ET-TT-OC 0210-0300+ 3/27 w/ one ID 0301. (RJE)  
 WMMM-CT TEST was not on. EiC forgot to turn on AM as well as FM. Will re-sked next fall and CE will do it himself. He rec'd one tentative rpt, and one "definite", from a member of IRCAs CPC, no less.... (RJE) \*\*\* In line w/ yr comments recently, WES BOYD, how does that one grab ya ??? -RJE \*\*\*\* And just to avoid confusing newcomers, etc., the report wasn't Wes's. Who was on freq. w/ 2-3 min OC 0055 3/27...?? Nothing else noted. (TRS) \*\*\*I noted it too, might've been someone who'd just s/off'ed or mebbe WMMM.... RJE  
 unID  
 1300 WJDA-MA Hrd on DX 0100+ w/ ID's 0101,0111,0114, w/TT's, uptempo organ mx, sometimes thru, sometimes o/WFBR, 3/20 (TRS) \*\* And look how much closer he is to WFBR than I am, and I could barely hear WJDA... this hobby'll never make sense, hi -RJE  
 Test hrd way o/WFBR, w/ jingles, TT, organ mx 0102-20 3/20(RM)  
 1310 WISE-NC W/ wx, wx, ee, sounding RS 0402-08+ 3/20 (Boyd)  
 xx 1190 KAYQ-MO In clear w/ KLIF off to 0230.... 3/20 (Boyd) \*\* In answer to your query re polar plots, answer is "no" -RJE  
 + 1350 CJLM-QU Hrd w/FF, w/ wk ID u/WSLR-WKLY 0145 3/27, so new sked. (RJE)  
 1370 CFLV-QU Hrd w/ EE & McR to s/off Oh Canada 0000 3/20 (RJE)\*\*\* What gives?? never hrd 'em in EE b4 ??  
 WIVV-FR Not hrd on DX 3/19 due to WSPD/WFEA, latter Off 0055, but still no WIVV. Not hrd 3/26 same reasons (TRS)  
 1380 WMEE-IN Fair-poor w/ s/on, then into Drake rr 0501 3/6 (BL)  
 KJET-TX Exc. ID on ET-rr mx, sed testing AM & FM 0524 3/13 (BL)  
 WPLB-MI Had apparent makeup r/c abt 1/2 hr after sked r/c had run 4/03 0100 t/in to 0107 s/off (RJE)  
 WTOB-NC Insipid OC pest but this time no WLCY to garble the IDs, which were outlandishly strong 4/03 0105  
 + CKLC-ON Hrd w/ 5kw s/off 0000 w/ GSQ, amng. wkdy s/on 0530, Sun. 0730, change log. (TRS)  
 1390 WEOK-NY Had ET-PoP w/ TT, OC 0000-0112 4/3, w/ ID's 0100, 0112 u/ WFBL (RJE)  
 1400 WLLH-MA ET-TT-OC ID'ed 0120,3/27 as "WLLH, Lowell", but no mtn of Leominster, pardon, Lawrence.... (RJE)  
 KUNO-TX Vy gd in EE then into SS 0600 3/13, SS slogan is "Kah-Uno"(BL)  
 \*\* KAOK-LA Appears NSP now as on AN MM 3/20 (PKH)  
 + 1420 WOC -IA Daily s/off 0100, MM 0130, seems quite consistent (PKH)  
 + WVJS-KY S/off daily appears 0200 w/ "Old Ky. Home" (PKH)

1420 KPFL-LA Copied s/off 0103 3/17 for much wanted close unheard (PKH)  
 1430 WIRE-IN Hrd 3/21 w/ SID 0315 in midst of rr show u/CKPH while looking  
 for KTYN which, unfortunately, wasn't hrd. (TRS)  
 1440 CJOI-AB Fair w/ ID "Mx, mx & information for the Parkland, CJOI, 14-  
 40 radio" then MoR 0535 3/6 (BL)  
 1450 KVEN-CA Hrd w/ET 3/27 0505-19 w/ soul mx, several ID's. Fair sig w/QRM  
 de unID stn. (MH)  
 1500 WDEN-GA Again on every-third-week ET (you were right, Russ, hi) noted  
 MM 3/27 0145 w/TT, mx, frequent ID's (DS) \*\*\* ARA!! -RJE  
 1530 WJDM-NJ ET-IT-PoF vy wk u/WCKI w/ID 0100, 0108 4/3 (RJE)  
 1550 KIWA-IA Vy gd on TEST w/ slight XEBG QRM w/ ID & instr mx 0358 3/6(BL)  
 1560 WTRQ-NC Founding atop channel w/ s/on no SSB 0545 4/2 into oaw (RJE)  
 WTAI-FL Weak u/WTRQ w/ s/on no SSB 4/2 0600. (RJE)  
 unID Stn. w/ pgn of country-ish religion called "Devotional Tie"  
 0620 (when faded up) -0640+ 4/2, might've been one of the above  
 or maybe not. (RJE)  
 unID S/on SSB vy wk. u/WQKH OC 0640 4/2, an odd s/on time... (RJE)  
 KHR-TX PoF from b4 0110 to ard 0140 3/18, semi-local here,,, (PKH)  
 1580 WAMY-MS ET PoF 3/12 ID 0310, good sig. (JO)  
 KCHA-IA Strong on ET, but blanked by KAMI f/c 0105-0130 3/18 (JO)  
 KLOU-LA Hrd 3/27 0606-12 w/rr, fars annts. fars products spots, ID's  
 as "Olus". Fair w/ flutter-fade but doubt SR this early in LA  
 (MH)

Notes, Addenda, General Randomness, Announcements, and other goodies.....

- Collectors of CM's, stn envelopes, I have some to go for an SASE.
- Contrary to popular belief, I'm a Mets fan, hi. Also Dodgers....
- **STAMP COLLECTORS**: As many DX'ers are known to be stamp collectors, I'll briefly make this note: I am liquidating some extra U.S. mint singles circa 1960-72; some U.S. plate blocks, circa 1965-72; foreign envelopes; and an entire collection of foreign singles. I would prefer to let them go in lots by country on the foreign collection, so country specialists take note. On plate blocks, I'll supply a list of Scott #s available. I have good quantities of the following countries in foreign: France, French colonies, Latin America, Hungary, Japan, Austria, Russia, Spain, Italy, Britain, British Commonwealth, Germany. Also, Tom Sundstrom has indicated that he may be doing something similar with his collection.
- **FOR SALE**: one almost new AMECO CB converter (tube) for AM auto radios. Works quite well, hooks between antenna lead-in and antenna input on radio. List about \$30.00, will sell for \$17.50 or best offer. (RJE)
- WTOR-610 is reaked for 4/9; WMM will go again next Fall, as will WBRW. WOWW-1380 and WPUT-1510 will notify me of incipient ETs, PoPs, f/cs by card about 2 wks in advance from whence I'll notify FAS. Sorry 'bout time factor, but its better than no tests at all.
- **JERRY OSBORNE** - can you send me a detailed evaluation of the SX133 in comparison with anything else you've used....
- LOOP COMPARISON CHARTS for 4', 2' a/a loops and SM1 will be available shortly in Monograph form available from me or from HQ, haven't decided yet, hi, so watch for more data.
- ALSO COMING: TA info (also monogrpahic), and more articles (hopefully by 6/1).

73s..... RJE

# DX DOWN UNDER IN NEW ZEALAND

FROM MEDIUM WAVE NEWS

The source of these notes is from previous copy published in M.W.N. some years ago and HEARING ALL CONTINENTS on M.W. is well known. Two things have to be taken in consideration for the very favourable position; (1) Less QRM than from our European locations and (2) Long sea paths are involved and the sea is by far the best conductor. There is another important point to remember and that is the fact of New Zealand being a land of wide open spaces, so consequently there is often space for LONG WIRE antennas, including the Beverage which has been referred to previously. Now we have a **CONDITIONS REVIEW**.

**JANUARY**. North America, 50 KW being dominant, heard from about one hour before sunset (21.00 N.Z.T.), sometimes Spain and Portugal from 1500 to 1600 kHz plus Japan above 1200. Around 02.00 N.Z.T. Alaska, then the Phillipines, South Asia plus stations as far West as Tunisia as dawn approaches.

**FEBRUARY**. Similar to January but Alaska gets harder to hear.

**MARCH**. This is a PEAK month - sunset to after dawn the feast is there. Early evening signals from Spain, Portugal, Canada, U.S.A. and Mexico being dominant. Peru is also heard well later in the month dominant over the Canadians. Near midnight China and the U.S.S.R. can be heard. South Asia to about 04.00 N.Z.T. and as dawn approaches the high powered Europeans are heard with Monte Carlo a tremendous signal, sometimes blocking one of the local stations plus some occasional South and Central Africans weak but recognisable.

**APRIL**. North Americans begin to be absent for about a period of three months and at the end of the month only the higher powered all nighters vying for space with Mexican and Central Americans. Elusive 250 watt Australians plus Pacific Islands are heard. In the early morning Asia and Middle East can be heard and towards dawn the Europeans, now almost at their peak.

**MAY**. N.A's almost all gone and South America heard from about one hour before sunset till midnight when South Asia is heard. Lower power Europeans no longer audible and higher power ones more difficult.

**JUNE** and **JULY** give mostly South America, Australia and South Asia plus occasional Middle East stations.

**AUGUST**. South Americans fade and high power North Americans return and later in the month Europe starts to be heard, but little is heard in the early hours before these appear around dawn.

**SEPTEMBER**. All Continents are again to be heard - North and South America plus Hawaii and Fiji till nearly midnight, followed by Middle East, then North Africa and Europe followed by Central and South Africa, maybe via path over Europe and Asia or via the Indian Ocean and the Tasman Sea.

**OCTOBER**. South America now rare with North and Central America dominating. Lower power Australians no longer heard and Europe fades out later in the month, leaving only South and Central Asia to be heard.

**NOVEMBER** and **DECEMBER**. North Americans provide the evening listening along with the odd Alaskan being heard. Asia quiet after midnight and around dawn Hawaii and Pacific Islands are heard.

Australia can be heard all the year round with some stations being heard all day with remarkable clarity.

It is interesting to compare the seasonal peaks in the Northern and Southern hemispheres. In the North the best months DX-wise are usually September to November equivalent to New Zealand from March to May and in N.Z. November and December are "out of season" months, similar to May and June in the U.K.

# THE TWO FOOT LOOP ANTENNA

by R.J. Edmunds

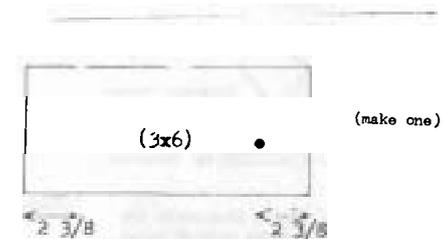
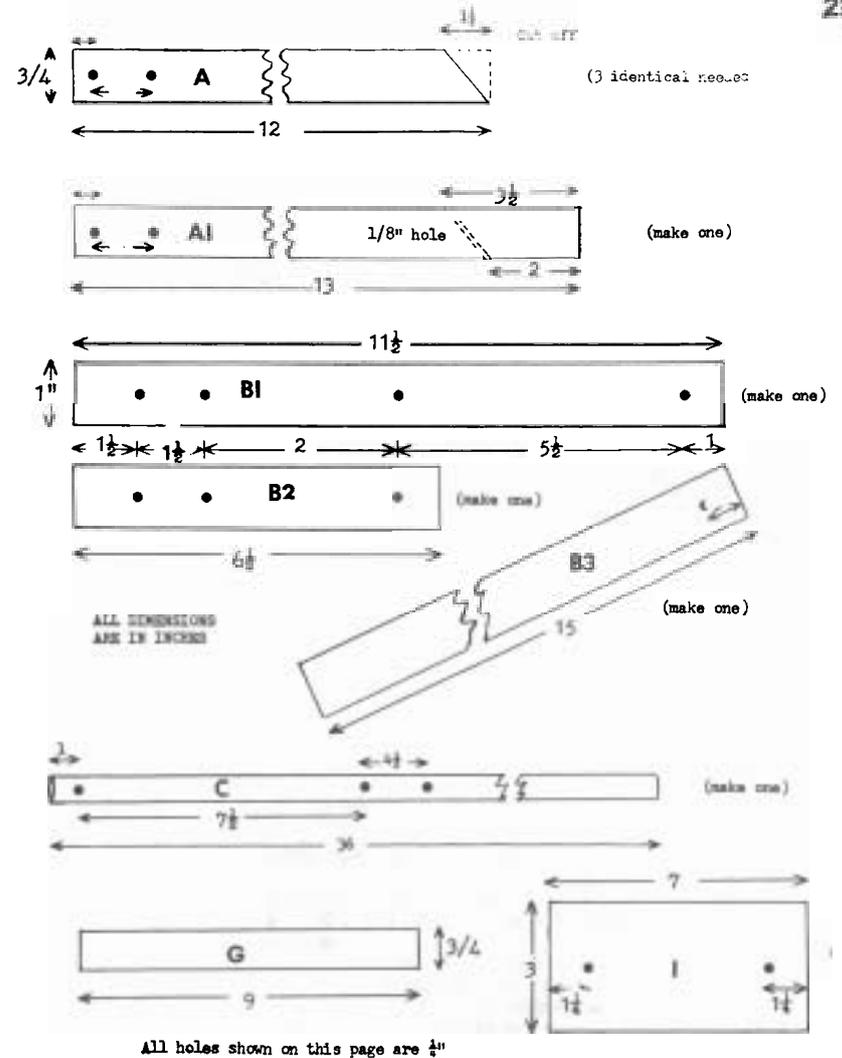
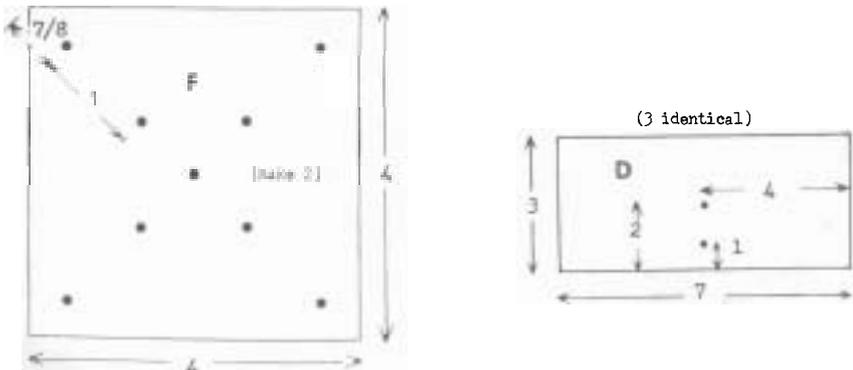
If you're unable to construct the usual 4' loop due to space problems, or if you want a portable loop for DX'ing while travelling, the 2-foot altazimuth amplified loop will satisfy your needs. It is relatively inexpensive to build, and fairly easy as well. The design concept is, of course, similar to most other air-cored box loops, and is patterned after Gordon Nelson's 4-foot FET altazimuth loop for which plans appeared in these pages a few years ago. Basically, we have reduced the size by about one-half, and compensated as many other factors as necessary to accommodate this size reduction. The result is a loop which will easily fit in an automobile trunk, a loop which will easily mount atop a convenient table or cabinet, or a loop which will even fit into a very large suitcase or moderate-sized trunk when broken down WITHOUT unwinding the main coil.

The 2-foot loop is amplified by two parallel International Crystal BAX-1 broadband RF amplifiers (see discussion in earlier article "Alternative Methods of Amplification for Air Core Loops" also by this author) which are well shielded, and mounted as near to the back of the receiver as possible to prevent undesirable vertical pickup effects. The main or tank coil consists of 19 turns of #16 gauge wire, and the link coil consists of 2 turns of either the same or of #18 gauge. The feed line is described in the plans later on.

The diagrams following this text will provide all the construction details which should be necessary for one who is familiar with box-loop antennae at all. If the reader is not, he is encouraged to do further research before attempting this project. The parts list will follow the diagrams for construction, and photographs of the finished product from several views will conclude this article.

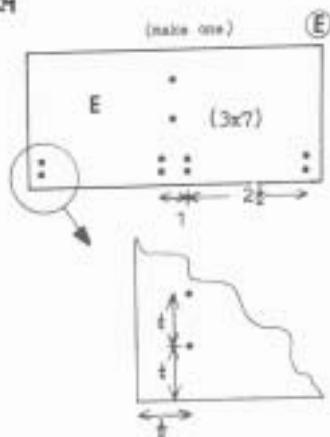
The loop may be mounted in any of several ways. It can be used with a tripod array as used by this author, which is really a roof-mount antenna support; or it can be affixed to the vertical surface of a cabinet so as to protrude above it; or it can be affixed to a table top. A separate stand can also be made if one is desired. The tripod mounting is achieved by closing off the bottom end of the small section of pipe which provides the rotation mounting, or simply by drilling a small hole through the support dowel just above the point where it is covered by the pipe and running a small nail or metal rod to prevent the dowel from sinking any further into the pipe.

(Letters in diagrams refer to designations of the parts list)

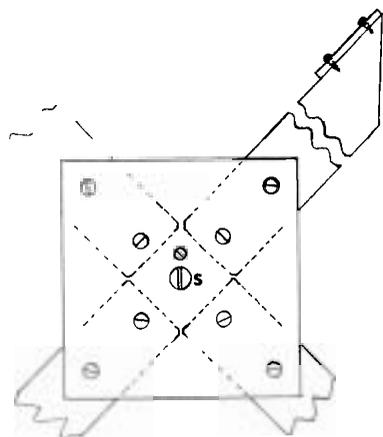


## Parts List for 2' Loop

24



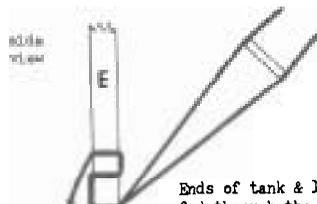
**FEEDLINE:** Cut plugs off extender leads and pull out fine wire inside. Replace with fine insulated hookup wire. Strip back the insulation on each end and untwist about one inch of shield. Twist the shields together at one end, tape the cables together every 6" or so along their lengths. Cut the far ends so they are even and connect the shields together after stripping back 1" of insulation. Carefully cut off a patch of insulation on each cable a foot from each end and solder the shields together.



Side view of center plate assembly. The heavy screw marked "s" mounts the loop frame onto the tilt arms; a second smaller wood screw slightly off to the side will prevent the face from working loose. Note that screw "s" must be fastened to B2 before bolting center plates together!



Top view of tilt arm assembly



spreader "woven" thru winding and then rotated to tighten winding

Ends of tank & link coils are fed through the pair of holes on bottom of terminal plate

(Letters correspond to diagrams preceding. Electrical parts noted below available from either Newark Electronics Co., 500 N. Pulaski Rd., Chicago, Ill., 60624 or Lafayette Radio Electronics, 111 Jericho Turnpike, Syosset, N.Y. 11791. The author found the only part he could not locate in local electronics supply houses was the tuning capacitor. This was ordered direct from Hammarlund, Bridge Ave., Red Bank, N.J. 07701. The BAX-1's of course are available from International Crystal, 10 No. Lee, Okla. City, Okla. 73102.)

**WOOD:**

- A) Cross arms ( 3/4" x 1-5/8" stock; a total of 5' needed)
- B) Tilt arms ( 1" sq. stock; a total of 3' needed)
- C) Mounting shaft ( 3/4" dowel; 3' long)

Preferably plastic, plywood acceptable however:

- (1/8" Bakelite is extremely suited to this purpose)
- D) Arm plates (3 identical)
- E) Terminal arm plate (1 needed)
- F) Center braces (2 identical)
- G) Spreaders (4 or 8 identical - see note below)
- I) Tilt lock plate (1 needed)

**MUST BE PLASTIC:**

- J) Capacitor mounting plate (1 needed)

**OTHER:**

- K) Tuning capacitor, 325 pfd linear wavelength; Hammarlund MC-325-M, Newark item # 41F312
- L) Tuning range switch, miniature toggle; Lafayette item 99 T 6162 or equivalent
- M) Tuning range capacitor, 200 pfd, silver dipped mica; Lafayette item 30 T 3549 or equivalent.
- O) Tank coil, #16 gauge stranded wire, plastic insulation (115' needed, comes in 100' spools)
- P) Link coil, #16 (or #18) gauge stranded wire, plastic insulation (15' needed)
- Q) Tuning shaft extender (1 needed), 6" plastic, 1/4" diameter
- R) Tuning shaft coupler (1 needed), 1/4" to 1/4"; Lafayette 32 T 6412 or equiv.
- S) Plastic knob (1 needed) 1/4" shaft.
- T) Terminal strip, 3-connection Cinch-Jones Series 164; Newark item 28F841
- U) Loop amplifiers: International Crystal BAX-1 Broadband RF amplifiers (2 needed)
- V) Transmission line; 2 pieces of air-cored, low-capacity cable; this type has no RG designation and is used only for automobile antenna leads; 36" universal extension lead, Lafayette item 11 T 7410 or equivalent. (You may need more length, depending on how the loop is to be mounted. If so use anywhere up to 72" length, also commonly available)
- W) Batteries, Everready #266 or #276 (2 needed, one for each BAX-1)
- X) Mounting shaft stand: 1' length of 3/4" inner diameter pipe, threaded outside one or both ends; and floor flange threaded to accept pipe segment. (floor flange needed only for bolted upright mounting. Not necessary for tripod or alongside-cabinet mounting)

**NOTES:** With a loop of this size, although 8 spreaders are ideal, the coil may be too tightly wound to accept them. Use four, and, if at a later date the coil should appear to have slackened significantly, try adding the others.

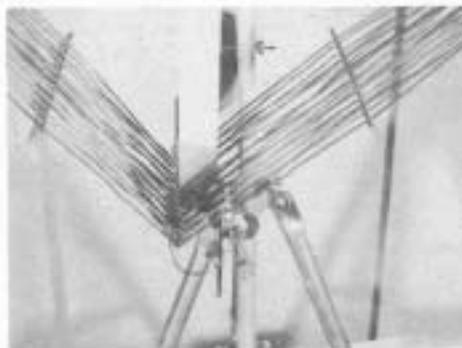
**SMALL PARTS NOT SHOWN IN DIAGRAMS:**

- 7) machine bolts, round head, with wingnuts and washers, size 1 1/2 x 6.
- 2) machine bolts, round head, with wingnuts and washers, size 2 1/2 x 6.

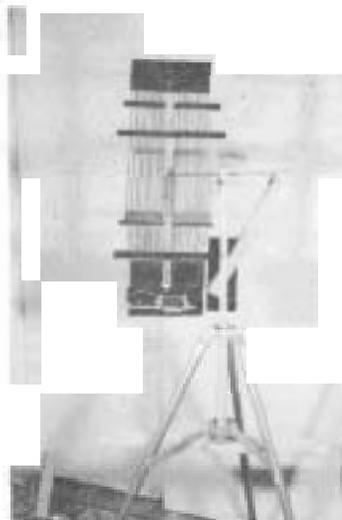
26

- 3) machine bolts, round head, with wingnuts and washers, size 3x6
- 1) machine bolt, round head, with wingnut and washer, size 4 x 6.
- 10) Number 10 round headed wood screws,  $\frac{1}{2}$ " long. (to mount arm plates)
- 2) Number 6 machine screws,  $\frac{3}{8}$ " long (to mount tuning capacitor)
- 2) Number 6 round headed wood screws  $\frac{1}{2}$ " long (to brace loop to tilt arm)
- 2) Number 6 round headed wood screws  $\frac{1}{2}$ " long (to mount terminal strip)

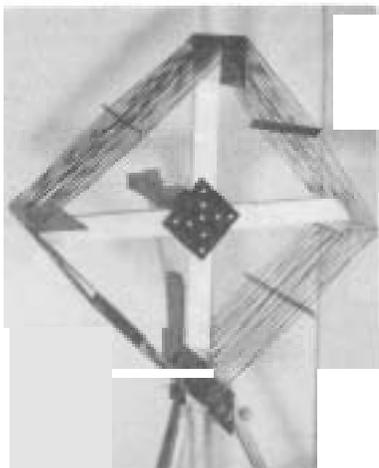
NOTES:  $1\frac{1}{2}$  x 6 bolts for braces/arms;  $2\frac{1}{2}$  x 6 bolts for lower two mounting bolts on B1 in top view of tilt arm assembly; 3 x 6 bolts for tilt arm lock plate; 4 x 6 bolt to mount tilt arm assembly to mounting shaft.



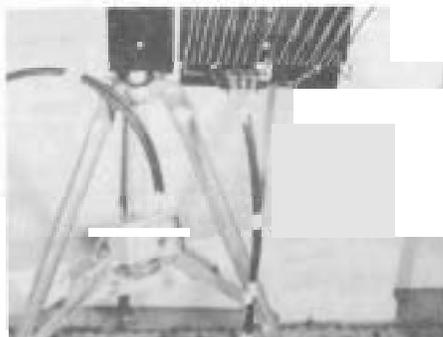
1. Capacitor mounting plate, tripod mount, front view.



2. Tripod-mounted 2' loop, side view



3. Tripod-mounted 2' loop, front view



4. Terminal strip, feedline, and amplifiers (in box)

Last summer I travelled by train through Siberia and Manchuria to Peking where I stayed six weeks. The way back went through Mongolia; that is the shorter one of the two alternatives. The Siberian railroad was met near Lake Baikal. The border stations excluded, the train did not stop for more than half an hour. Therefore, the only possibility to make observations was through the train-window. The train's loudspeaker system was all the time relaying radio-programme, on the Sovjet train to Peking they naturally only had the programme of the best audible Sovjet station, whereas on the Chinese train to Moscow they had Radio Peking's programme all the way to Moscow.

Much attention has been given in the Sovjet Union to the spreading of radio and TV sets. According to WRTH there are 20 million TV sets in the Soviet Union. Even in the remotest areas you could see tall receiving antennas on the roofs of even the smallest cottages. As they live very cramped in the Soviet Union, the roofs of the apartmenthouses were crowded with TV antennas - they do not seem to use community antennas there. The broadcasting antenna was on a central place in several towns and almost without exception it looked just like the Irkutsk mast as shown here. With the exception of the Ural the terrain was very flat all the way to Lake Baikal, and, therefore it did not provide any obstacles for the propagation of radio-waves.

There are not very many DXers who have been able to add Radio Ulan Bator's QSL to their QSL-collection in spite of the fact that it broadcasts on SW with a power of 50kW and on MW with 150kW. It is no wonder, because the stations are situated very unfavourably in relation to the surrounding terrain. The forest of SW antennas is situated on the steppe 20 km south of Ulan Bator in the middle of high mountains. The MW antenna proudly stood in the centre of the town. The whole of Ulan Bator was surrounded by high mountains.

In Peking I had the facilities for DXing but the old RCA's performance, lack of antenna and the number of interfering stations limited effectively the facilities. The MW-band was totally blocked by powerful stations during the daytime. Only Voice of Free Asia, VOA Ban Phachi, could break in. At midnight local time (GMT + 8 hours) the situation was changed totally when the Chinese signed off and only the foreign stations with their Chinese-language programs were left to dominate. The free frequencies left were occupied mostly by the Japanese, of which JOBB Osaka, JOLB Fukuoka, JOOR Osaka and JORF Yokohama were the last named is on 1420 kHz and calls itself "Radio Kanto". At least at that time the Japanese advertised frequently and played as a rule American hits in either Japanese or English. The stations identified in every 15 minutes and, as you know, they pronounce their call letters in English. On 900 kHz I logged AF Vietnam Network, whose news broadcasts sounded very authentic. On 1440 kHz AF Korea Network came in a little bit better than AFVN. These stations use special names in stead of local names. I could not make out of the song-ID, which one of the three AFKN stations it was. To those interested in the Chinese stations I recommend familiarizing to the new revolutionary music because the variety of tunes is very limited and you can easily learn the most common of them thanks to their good rhythm and very distinctive melody. The two most common ones are "Sailing the Seas Depends on the Helmsman" and "The East is Red". They are played in choir and brass band arrangements. The identification of the local situations is to my mind extremely difficult. They relay all through the day the program of Radio Peking in a couple of hours sections. These programs include news and readings of Renmin Ribao (Peoples Daily). The local IDs are rare - at least I did not hear one, which naturally doesn't prove anything.

Faraway over there the radio receiver gave me an opportunity to get a glimpse from "home" by listening to the singing of Georg Ots in Radio Tallin or the British Grand Prix report in the BBC. To those interested in China the radio offers a recommendable way of getting information in its original form and maybe a new field for specialization to balance the listening of yankees for instance.

28 \*\*\*\*\*THIS INFO DELIVERED OVER P/C'S ONE WEEK LATE TO HQ\*\*\*\*\*

MARCH: 1st SA: WZJZ-1440, WHS-1440; 2nd PM: KXIT-1410; 3rd PM: WETS-1480

ch-ch-ch-changes!

+ 1080 KHAL-RI CP is on (ex-1070)  
 + 1400 WVOZ-PR CP: 1000/250 UL  
 + 1530 WYDR-RI ex-147X

call applications

1310 WYDR-RI Req. WJIC

**sunset & evening**

1070 WFLI-TV Hrd 1843 3/7 w/ c/w, wx, ID. (Leo Alster, Rahway, N.J.)  
 1220 WJAN-14 Hrd 3/14 for abt 5 mins w/ IDs, s/off 1815, tried again 3/15, but WFAK dominated. (Alster) \*\* That's extremely early for Iowa... a good hour b4 local SSS. Are you sure???-RJE  
 1250 WYDR-RI Hrd 1830 3/15 w/"Open Line" w/ mayor as guest (Alster)  
 1260 WYDR-RI My unID SSS'er here DDND 3/11 was this (RJE) (per tape replays)  
 1290 WYDR-RI Hrd spot for "The World We Live In", CBS Sx, ID 1930 o/WYDR 3/12 1924-31, no sign of usual regular (Eric DiRicco, Pgh., Pa) My unID here DDND 3/11 SSS'er was this per many tape replays. Since I've no DX to rpt., I'll DX my monitor tape unIDs, hi(RJE)  
 1390 WYDR-RI Hrd w/ early s/off 1844 3/1, JMI de WYDR (ED)  
 1520 WYDR-RI Hrd wk but clr 3/8 w/ ad 1914, then s/off, no CBJ (ED)  
 WYDR-RI Hrd morning 1217-27 w/ c/w ex, ads to 1222 s/out. (ED) \*\*\*Date on this ?? -RJE  
 unID Hrd after WYDR's f/out 3/8 2005-35 w/WKB, not pro. Sig. hi, fluttery, strongest 2008, -WYDR?? (ED)

**midnight to sunrise**

570 WYDR-RI Hrd w/ET 2/14 0250-0300 w/ "American Pie", in 3rd time and when audio cut 0259 then pause then "KURT, Las Cruces, N.M." Sig. good, L&C, dominant here (ED) \*\* Nice catch - RJE  
 633 WYDR-RI Hrd 3/13 w/WYDR off w/rr, pronos for Winnipeg rr show. Several ID's 0435-45. JMI de Cuban 0427 (ED)  
 640 WYDR-RI The PTC RS 0305 3/13 (Boyd)  
 640 WYDR-RI S/on hrd 3/13 0427 w/o Canada, then long // s/on into wx 0431, w/hvy JMI de Cuban (ED)  
 660 WYDR-RI Hrd w/rr in RS 0340+ 3/13. App. MSP (Boyd)  
 710 WYDR-RI J/WR w/WR, sx, nx 0200 Fair 0135-0203 3/14 (Boyd)  
 860 WYDR-RI On ET w/ c/w instrs. 0524-0533+ 3/13 (Boyd) \*\* Country Charley Pride along 'em, no doubt, hi WYDR - RJE  
 880 WYDR-RI Pumping constant +200/s2 sigs, here at nate. 1st Noted here 3/7. Did they start 3/6 ??? (Paul K. Mart, Ft. Worth, Tx) \*\* Yes - RJE  
 940 WYDR-VA Hrd on ET w/ c/w instrs. and jingles 0239-48 3/13 (Boyd)  
 KFRD-CA Testing w/various ET II: 3/20 various times w/ gd sig. (Mike Hardester, Modesto, CA)  
 unID ET 0213/13 0237-0249 off w/ rx, jingles, "testing 1,2,3,4 " w/ very muddy audio. (Dave Schmidt, Wilmington, DE)  
 950 WYDR-PA Off again 3/20 to 0500 (DS) off 3/13 0200-0500 (DS)  
 WYDR-MS Strong w/ WYDR looped & WYDR'S 00 off. Noted w/ WR 0450 3/20. (DS)

960 WYDR-MS Strongest ever hrd +10/9 0345 3/20 w/ c/w (DS)  
 970 WYDR-MS Noted II 3/15 +20/9. Just be running Day or just WYDR's as is only hrd then. (DS)  
 +wx1060 WYDR-PA WYDR Hrd. Stopped after a few words. Now off 0130-0130 (DS)  
 970 WYDR-MS S/off copied 0202 3/5, seconds after WYDR s/off w/ JMI from WYDR (DS)  
 WYDR-RI Copied wk 1400-1500 in open spots between WYDR-WYDR-1440, all testing 2/21 (DS)  
 1080 WYDR-MS Hrd testing w/rr, w 3/20 0317-30. Fair sig w/slop from WYDR (DS)

**GP LIST**

(1-15-72)

560	*KVOK	Kodiak, Ak	5/10		+WYFE	Rockford, Ill	2/3
580	+CKXR	Salmon Arm, BC	6/3		*WBAL	Morro Bay, Ca	2/24
	#KYUK	Bethel, Ak	7/30	1170	*WYVI	Mechanicville NY	
	*	Blowing Rock, NC	9/8				4/13
590	+CKRS	Jonguere, Que	(4/1)		#CFML	Cornwall, Ont	(6/14)
610	+CHNL	Kamloops, BC	4/15		*KJAS	Jackson, Mo	8/4
620	+WHJB	Greenburg, Pa	9/1		+WLBH	Mattoon, Ill	8/4
710	#CJRN	Niagara Falls, Ont	unk	1190	*	Chattanooga, Tn	12/10
	*	Blacksburg, Va	2/3	1230	+KIAV	Las Vegas, Nv	(12/7)
	*WEGG	Rose Hill, NC	2/19		+KRDG	Redding, Ca	(12/16)
720	*KIQX	Las Vegas, Nev	(7/3/9)		+WGOO	Sparta, Ill	9/1/72
730	*	Rutland, BC	9/1		+KOTS	Denning, NM	9/22
790	+KKON	Kaleakagrua, Ha	6/24		+WBEZ	Ponca City, Ok	12/14
	*CFNW	Port aux Choix, NF	7/30	1240	+KLOA	Ridgecrest, Ca	(12/9)
800	*WRKV	Rockville, Ct	(7/20/9)		+KOAD	Lemore, Ca	(11/10)
	#CJJC	Langley, BC	unk		*EWJB	Globe, Az	9/22
	*WSST	Largo, Fla	2/12	1270	+WEOG	Charleston, Ill	6/3
810	+WKVM	San Juan, PR	5/1	1290	+WFBG	Altoona, Pa	8/9
850	+WMAG	Forest, Ms	3/15	1310	*WFRJ	Parsippany, NJ	(7/18)
	*WCUG	Cuthbert, Ga	(12/21)		*	St. Paul, Ab	8/27
880	#KRVN	Lexington, Nc	4/25	1320	+KXLM	Clayton, Mo	5/1
900	*	Penticton, BC	6/23	1340	*CPED	Chapais, Que	6/14
940	*WNAL	Nelsonville, Oh	(1/3)		+KMKY	Cathedral City, Ca	1/13
	+WFNC	Fayetteville, NC	(9/1)		+KPEI	Preston, Id	4/21
	*	Lebanon, Pa	unk		+KOST	Rrt Arthur, Tx	9/1/72
	+CJIB	Vernon, BC	11/22/72		+KVIC	Victoria, Tx	6/9
950	*KRXA	Seward, Ak	10/6		+WUPL	Lockport, NY	3/31
		(repl KIBH)			*CPJW	Wabash, Lab, NF	6/3
970	*WZOZ	Jacksonville, Fla	(12/29/9)		+HSPF	Needles, Ca	7/23
					+HMLL	Wenatchee, Wa	7/30
	+WATH	Athens, Oh	1/1		+HMPH	Page, Az	unk
	*KIAK	Fairbanks, Ak	7/13		#KCAT	Pine Bluff, Ark	5/12
	+WTRY	Troy, NY	11/19	1360	#KCHU	Hermiston, Or	5/5
1000	*	Parma, Oh	1/1		#KRRR	Ruidoso, NM	(12/4)
1030	*	San Juan, PR	unk	1370	+WIVV	Vieques, PR	unk
1060	*	Ozark, Ark	(8/5)	1380	#KATO	Safford, Az	11/16/72
	#WRMF	Titusville, Fla	9/1	1390	+WROA	Gulfport, Ms	9/1
	#WPLK	Rockmart, Ga	4/19	1400	+KDRQ	Deer Lodge, Mt	(12/15)
	*WBMB	West Branch, Mi	10/28		+KIOX	Provo, Ut	2/2
	*WTLE	Tupelo, Ms	9/1		+KTHG	McAlester, Ok	1/28
	*	Mebane, NC	11/3		+KEMI	Henderson, WVa	7/15
	*KAMA	El Paso, Tx	6/25		+WJLD	Fairfield, Al	9/24
	*	Gilmer, Tx	9/1		+KVCU	Tuscon, Az	4/21
	+CJRP	Quebec, Que	1/1		+KVOU	Uvalde, Tx	5/19
1080	#WECF	Carthage, Ms	11/4		+KINE	Galveston, Tx	6/9
1100	+KIFX	San Francisco, Ca	unk		*	Princeton, BC	4/15
					+KQIQ	Santa Paula, Ca	unk
1110	*	Pikeville, Tn	9/1/72	1410	+WOCR	Ft. Myers, Fl	unk
1120	+KPNW	Eugene, Ore	1/6/73	1430	+KLO	Ogden, Ut	6/24
1130	*WCTM	Eaton, Oh	2/1	1440	+CHPM	Ottawa, Ont	9/1
	+WDGY	Minneapolis, Mn	6/1		+KSYS	Corpus Christi, Tx	(11/6)
	+KSDO	San Diego, Ca	4/14	1450	+KBPS	Portland, Ore	(7/15)
	+WISN	Milwaukee, WI	7/11		+CHSP	Grenby, Que	(7/1)
1140	*WQJW	Warsaw, NY	4/7		+KOWN	Escondido, Ca	6/2
	*	Lexington, NC	(1/8)		+KBBN	Garrizo Springs, Tx	9/22
	*	Yakima, Wa	5/26		*	Summerland, BC	4/15
1150	+CJRC	Ottawa, Ont	(6/14)	1460	+WVVL	Painesville, Oh	8/18
	+CKX	Brandon, Mb	1/15	1470	+WTRQ	Ithaca, NY	6/3

# SONY TR-1300

Ronald F. Schatz

A look into recent issues of DX NEWS will reveal the fact that a lot of DX'ers are travelling, especially abroad, to places where their monitoring activities could offer invaluable information to the DX community. Unfortunately, portable receivers of DX'ing quality are hard to come by, and most multi-band portables are notoriously lacking in selectivity and sensitivity, leaving the travelling DX'er much to be desired in equipment and performance.

But leave it to the Japanese to solve the problem: The Sony Corporation is offering a lot for the money in its two "world-wide multi-band, deluxe, high-powered portables" - the TR-1300 and the TFM-1600/W, with or without FM respectively in reverse. Both receivers offer AM coverage from 530 kHz to 26.1 MHz in five bands, voltage selector for use with any wall socket in the world, tuning ("S") meter, whip antenna, outside antenna terminals, RF stage with two FET's, ceramic filtering, flywheel tuning, and a sensitivity switch (local - DX). The TR-1300 also has a selectivity switch (broad - sharp) which is replaced in the TFM-1600/W with an AFC option switch, keeping selectivity in the "sharp" position. Getting into quality parameters:

**Sensitivity:** The proverbial 1-uV sensitivity common to the best communications receivers is noted. A few years ago I managed to pull in flea-powered Wake Is.-1480 from a distance of 500 miles with a readable signal. The TFM-1600/w will get readable signals from FM stations up to 200 miles distant!

**Selectivity:** Excellent - for an unmodified portable. Both versions will pick up most splits beyond 1- or 2-kHz separation with no trouble. The same thing applies relatively on FM.

**Frequency determination:** There is very little play on the tuning dial, so that many who own these receivers scratch or tape on high-resolution band scales before going abroad. By using that and the furrows on the tuning knob it is possible to determine frequencies to the nearest kHz by interpolation, just as the author did on stations in Port-au-Prince.

The dimensions of the two portables are roughly 11" x 9" x 4", and the TFM-1600/W weighs in at 8 pounds. Free-port prices are \$80 for the TFM-1600/W and \$55 for the TR-1300. Expect to pay more outside a free-port shop, of course.

Sony also offers the 7F-78L for \$84 (free-port). This small portable covers LW, MW, FM (87 - 104 MHz), and SW (4.7 - 12 MHz). Just perfect for the DX'er travelling to Europe, hi.

-30-

→ NOTE:

1470 *	Broadway-Timberville Va	7/28	1530 *WTVW	Chapel Hill, NC	(12/15)	
			*WYAZ	Yzoo City, Ms	7/25	
1480 +CFOX	Pointe Claire, Que	9/1	*	McConnellsburg, Pa	3/10	
1490 +HAWT	Douglas, Az	unk	*	Flora, Ill	5/5	
	+KDEL	Brady, Tx	(12/7)	*	Wheaton, Ill	9/24
	+WANA	Anniston, Al	2/20	1540 *KISA	Honolulu, Ha	11/19
	+WAMV	E.St.Louis, Mo	9/29	*	Jellico, Tn	10/14
	+WVMO	Del Rio, Tx	(12/16)	1550 *WGRK	Greensburg, Ky	2/18
	+KOUZ	Clifton, Az	4/29	*	Oak Ridge, Tn	9/1
	+KOKO	Guthrie, Ok	5/6	1560 *KAJN	Crowley, La	1/12
	+KHUZ	Borger, Tx	3/24	*WOBL	Oberlin, Oh	1/22
	+KVOZ	Laredo, Tx	10/21	*WGLX	Galion, Oh	5/27
	*	Hope, BC	6/3	1580 *WYXZ	Jasper, Ga	7/1
	+FAIR	Tuscon, Az	8/4	1590 +WCSL	Cherryvale, NC	unk
	+WCHI	E.Liverpool, Oh	9/22	*	Alexander City Al	9/1
1500 *	Great Slave Lake NWT	unk	1600 +WAAM	Ann Arbor, Mi	4/5	
1510 *KPIA	Ironton, Mo	6/3	*WNST	Milton, WVa	8/25	
1520 *	Honesdale, Pa	7/23	*1230 +KSNV	Bisbee, Az	7/12	
1530 *WDJZ	Greenfield, Mass	3/10	---compiled by Steve Bohac via RJE			
	Bridgeport, Ct	(6/24/9)				
	Chayenne, WY	2/1				

---DDXD No. 24 continued...

1190	WVTV-D	Hrd surprisingly well 0300-0330 2/21 w/MT 06 (PKH) ** No R. Condillera there?? - RJ
1270	WJZE-TX	Not w/rr 3/20 0340, = GJCB (DS)
	GJCB-MS	Good sig. 3/13 0441 w/ c/w mx w/ WYXZ off (DS)
1290	WHDZ-CH	Noted AN 3/20, WSP now?? (DS) ** Yes-RJE
	WGLL-AL	On ET w/ DJ promos & c/w instrs. 0130-40 3/11 (Boyd)
1300	WVTV-D	Spec. test hrd well 0430-ard0600 2/28 (PKH)
	WVTV-VA	Equal to WFBR (JLL -RJE) on TEST 3/20 0212. (DS) ** Buried by WFBR here, no way to even get a tape- RJE
1310	WVTV-NE	After 3 yrs, finally bagged 3/13 0303, ending "Reflections" pgn. into Rick Morrow Show. (DS)
1330	unID	Hit freq. 0225, caught annot. "testing during the experimental period" followup; an I., then into TT, rx to 0235 s/off 3/20
1370	WVTV-VA	IM s/on 0500, v7 strong IM: 3/13 (DS) (DS)
	WVTV-VA	S/on 0:00 3/19 w/ 3d sig. (DS)
1380	WVTV-FL	ID on a mx ET 0244 3/20, sig. wk, off 0255 (DS)
	WVTV-MS	Hrd "World Tomorrow" wrapping up 0258, then AM-FM s/off, pwr given, SFB, ID again then off 0301 (DS) ** No doubt whatever, Dave. - RJE
* 1400	WVTV-NE	W/AN rr 0210-35 3/13 (Boyd)
	WVTV-VA	ID 0225:30 out of mess, methinks was one of the TT'ers: 3/13
1410	WVTV-VA	W/ Bobby Sherman, Partridge Family & other DEAVITS 0250-0305+ 3/13 (Boyd)** They really think the bubble-gum set is up at that hour to hear it??? -RJE
* 1430	WVTV-ND	NOT HRD AGAIN on special 3/20 0300. Only MAUI (CH) Here only OKPH way atop MTE (RJE)(per remote tape)
* 1440	WVTV-NC	Hrd w/ s/off 0305 3/20, into 350, fair sig briefly alone on freq. (CH)
*	WVTV-VA	W/Tele-talk & top 40 M's. DJ is formerly of WESH(Boyd)
xxxx + 1480	WVTV-VA	IA Is now off M's for above reason (DS)
1550	WVTV-VA	Spec. test copied like a rock 0305-10 3/6 (PKH) ** You copy many rocks lately, hi ?? -RJE
1560	WVTV-VA	Hrd s/on 0614 3/19, f/out 0620 w/ WVAK u/ it (DS)
x 1570	WVTV-VA	Noted off M: 3/20 0400, back on RS by 0500 (DS)
* 1570	WVTV-VA	Extensive tape replays & confirmation of tape by TT reveal that the SID in a rr-TT TT hrd here listed unID 2/14 was as I had suspected, this time was... (JLL)

ANNOUNCED  
**CARACOL**  
STATION LIST

Ron Schatz

This list was monitored at 0535 GMT on the 23'rd March 1972 over HJKC-4755 and is presented here word-for-word as it was read over the air. Of course, only station names and locations are given. Words in parentheses are uncertainties:

"CARACOL cubre a Colombia por las siguientes emisoras:

- "En Bogotá: Nuevo Mundo, Mil Veinte, Radio Reloj, Radio Quince.
- En Medellín: La Voz de Antioquia, Radio Visión, Radio Reloj, Radio Quince.
- En Cali: La Voz del Río Cauca, Radio Reloj, Radio Quince.
- En Barranquilla: Radio Tropical, Radio Reloj, Radio Quince.
- En Bucaramanga: Radio del Comercio, Radio Reloj, Radio Quince.
- En Manizales: La Voz del Ruiz, Radio Reloj.
- En Cúcuta: Radio Cúcuta, Radio Reloj.
- En Pereira: La Voz del Café, Radio Reloj, Onda Libre.
- En Cartagena: Radio Bahía, Radio Reloj.
- Radio Cacique en Ibagué, Radio Pasto,
- Pregones del Quindío en Armenia, Radio Neiva,
- Radio Barrancabermeja, Radio Magdalena en Santa Marta,
- Radio Popayán, Radio Villavicencio,
- La Voz del Centro en Girardot, La Voz del Caquetá en Florencia,
- Radio Sabanas en Sincelejo, Transmisora Río en Montería,
- Radio Guadalajara en Buga, Radio Tuluá, La Voz de la Dorada,
- En Valledupar: Radio Valledupar, Radio Reloj.
- Radio Progreso de Córdoba en Lórica,
- La Voz del Oriente en Sogamoso,
- Emisora José Antonio Galán en el Socorro, Radio Sevilla,
- Radio Catatumbo en Ocaña, La Voz del Banco,
- Ondas del Gualí en Honda, Ecos del Río en Puerto Boyacá,
- Emisora Cultural Bolívar en Ipiales,
- La Voz del Cinaruco en Arauca, La Voz de Garagoa,
- La Perla del Pacífico en Tumaco,
- La Voz de Anserma, La Voz de Corozal,
- Radio (Abonas) en Purificación, Radio Magangué, Radio Guateque,
- Radio (Guantantantú), Ecos del Río Negro,
- Radio Libanense en el Líbano, Radio (Tucarena) en Turbo.

"CARACOL - Primera potencia radial de Latinoamérica!"

Two stations that appeared on previous lists were not mentioned this time: Radio Reloj (Ocaña) and Emisora Río San Eugenio (Santa Rosa de Cabal).

-30-



-Di Ricco-contd.-

for their r/c. I also got a few SSSers on 3/8, but nothing that's not already been in DXD. On 3/12, I was surprised at 7:26pm while listening on 1290. In I&C was, get this, WKNE, N.H. They stayed in for about 15 minutes, & a report was sent. Reply by v/i came back 3/20, for State #43 verified - and my most wanted of them. The letter said there was good reason for their weak signal down here. It seems they are almost completely beamed due N! 3/13, I got up to see if I could get CFCY-630 for another province; P.E.I. I had no such luck. The noise was at late Spring level & the Cuban was in very loudly. Anyway, at about 4:27, I was tuning the dial to go somewhere else. I must have just touched it, then for some reason I stopped. I am very glad I did. What I heard was "Oh Canada" on 640k. It was, of course, none other than CBN, Newfoundland. What a pleasant surprise! S/on was heard for CBN, CBNM, CBG & CBT. There was also quite a bit of static, but it's all on tape, & I sent a report for the s/on and about three more minutes of transmission; made up of the WX & noise, as I recall. The report was verified by standard CBC card, stamped St. Johns, and received here on 3/25. That was Province #6 verified. Also heard that morning were CKRC-630 Man. w/rr o/u CHLT & the Cuban; and ZIZ-555, weakly s/on for Country #25. Bug time, huh? Hi. My thanks to John Shannon for his timely tip about ZIZ. Totals as of 6/26: 1,053/24, 46/43, 9/6, as for countries, 25/8. We're getting a bit long here, so I'll be signing off. Support our DX'tras and all the great features that run in the greatest DX Club of them all, the NRC! 73s and good DX.

JIM REID Jr. - 4 Clancy Street - Swansea, Massachusetts - 02777

I've got one note concerning a call change. My local WXTR-550 is no more. Try now for new WONG-550 which first signed on the morning of 3/25. Nothing really big, as they continue WXTR's last format; contemporary MoR. The DJs are the same; only difference are the SIDs and they are AN, although I don't know about an SP. DX-wise, on 3/10 @ 4:30pm, WTAR-790 w/CBS NX in tough WEAN null. 4:35, WCCM-800 also w/CBS NX; CJTR-1140 in strong @ 5:25 w/FFC talk; WAIT/WOSU-820 in together @ 7:30 - I heard both s/off. WNHC-1340 right in the mud, ID @ 5:35 on 3/14. 5:50, WCCC-1290 (in WICE null) heard w/ID, TX & MoR. 5:51, WNEF-1290 briefly w/ad for Binghamton, & then NX. 6:00, WSEB-860 s/off-SSB u/CJBG 6:05, WBAX-1240 on top w/mx I don't know how to classify, on top for five minutes. 6:39 (until 7pm) a nice catch in CJFP-1400 in my null of three-miler WALE. They are much easier to eliminate than WGAR, usually only at night. The result is the usual jumble. I finally caught WDEA-1370 (after many tries) w/ID for AM/FM u/WFEA @ 7:10 after CBS NX w/Lowell Thomas. It was no surprise hearing WFEA in there - they are pesty and usually dominate every night here. 7:44, CKBL-1250 on top shortly w/FFC talk. 3/15- 6:35pm, CBY-990 dominating w/CBC program of cl mx o/WIBG // -CBT-540. At 6:55, EE station w/MoR on 1100 in WKYC null. Another mystery station, as I couldn't catch an ID. Their TX is EST plus one hour, NX heard w/jx (??-ERC) before each item, & slightly accented EE NX announcer. Trouble w/WBAL splash @ 7:10 - I need help on this one! 3/17, 5:19pm, WSME-1220 very strong for a bit w/Bob Dylan song, ID & donut commercial for Sanford, in local WRIB null. 5:36, WBRK-1340 ID o/mess in WNEH null w/NX, beer commercial, & mention of CBS affiliation; 5:46 I heard WGUY-1250 s/off; 6:36, WCOJ-1420 ID, then mx at & just u/WBSM, a toughie for announcements, but mx on top. Really not too much excitement this evening, no IAs, weak jumbles on graveyard frequencies; CJBR-900 FFC ID then rr. 3/24- 5:58pm, WCRV-1580 ID & s/off. Best of DX to all & 73 for now.

ROGER McDONALD - 4484 Dorff Drive - Memphis, Tennessee - 38116

Greetings, fellow DXers! Since I am a new member, I shall introduce myself. I am 16 years old, and have been DXing off and on for several years, but have just recently begun to "get the feel of it." I am using a Realistic 12-751A which I purchased at a local Radio Shack store for \$99.95. I consider this a good bargain for what I am getting out of it. I have received over 50 MW stations so far. (No chuckles please - I have to start somewhere). Among my most notable loggings: R. Belize, CEM, CBW, XERF, XBG, WCBS, WABC, WOR, KSL. I have not had any veries as yet, but I hope to obtain some soon. Well, that's all for now, & I would appreciate any members in my area writing me. Chow. (welcome to NRC & Musings, Roger, & we hope to hear from you often, double-spaced, of course!)



## CINCINNATI REDS BASEBALL NETWORK

OHIO  
 WOMP-1290 Bellaire  
 WTOO-1390 Bellefontaine  
 WBEX-1490 Chillicothe  
 WHIO-1290 Dayton  
 WTW - 700 Cincinnati  
 WJEH- 990 Gallipolis  
 WMCH-1450 Hamilton  
 WIRO-1230 Ironton  
 WDMA-1150 Lima  
 WMOA-1490 Marietta  
 WPFB- 910 Middletown  
 WPTH-1000 Newark  
 WPTW-1570 Piqua  
 WPAY-1400 Portsmouth  
 WKOV-1330 Wellston  
 WHIZ-1240 Zanesville

FLORIDA  
 WFIA- 970 Tampa

KENTUCKY  
 WNES-1050 Central City  
 WCTT- 680 Corbin  
 WHIR-1230 Danville  
 WSTL-1600 Eminence  
 WKAY-1490 Glasgow  
 WGOH-1370 Grayson  
 WHAS- 840 Louisville  
 WFMW- 730 Madisonville  
 WGTM-1240 Maysville  
 WPDE-1440 Paris  
 WPKE-1240 Pikeville  
 WANO-1230 Pineville  
 WEKY-1340 Richmond

TENNESSEE  
 WIAF-1450 La Follette  
 WLIV- 920 Livingston  
 WENT-1310 Oneida

## INDIANA

WHBU-1240 Anderson  
 WPDF-1550 Corydon  
 WCVL-1550 Crawfordsville  
 WITZ- 990 Jasper  
 WORX-1270 Madison  
 WLBC-1340 Muncie  
 WPCW-1440 Portland  
 WKBV-1450 Richmond  
 WSVL-1520 Shelbyville

## WEST VIRGINIA

WJLS- 560 Beckley  
 WCHS- 580 Charleston  
 WTCS-1490 Fairmount  
 WGNT- 930 Huntington  
 WVOW-1290 Logan  
 WTAP-1230 Parkersburg  
 WNYO- 970 Pineville  
 WBTH-1400 Williamson  
 (Ken Onyschuk)

DAVID F. GLEASON - Box Q - Hato Rey, Puerto Rico - 00919  
 Still no takers on the R-390A/UTR at \$900. Anyone for \$750? I must get rid of it by 4/30 when I head to Ecuador. It was purchased directly from Hammarlund in early 1971, & is not surplus. It has all manuals and spare tubes & lamps. I just returned from a three week stay in Quito. No station changes were noted, however. I also spent a day in Miami with friends at WQBA. I must agree with Jerry Starr on the AN matter. Here in San Juan, we feel the AN show is responsible for about 25,000 of the 50,000 listeners we carry into our first quarter hour @ 6am, according to latest surveys. There is no denying an AN show produces money, even if it has no spots. Remember too that to operate AN-7 a station must have a second XR (a 5kw rig runs 18-24 thousand), special set-ups for testing, extra studio equipment, etc. There is a major investment in AN broadcasting! In case anyone is interested, once in Quito, I will be at Apartado A-300 (Radio Xavier). I enjoyed RFS' measurement article - it's the same equipment I use for frequency checks, and works well. 73.

JIM HAYES - 9 Henru Street - Wilkes-Barre, Pennsylvania - 18702

Here goes another report as we head toward another static season. Although this might be true, CX is better than they were all winter. 2/27- 5:47pm, WCIL-1360 N.C. w/rr. 6:03, WIVK-850 Tenn. "#1 in Tennessee Valley". 6:15, WVOW-1000 A-1 w/rr. 3/3- 6:15pm WBLU-1480 Va. 6:30, WBUC-1460 Buckingham W.Va. w/a mix of M&R & c/w. 3/4- 5:59pm WRCP-1540 u/WPTS. 7:30pm ZNS-1540 Massau u/WPTR, with mention of weekend report. 3/5- 6:10 WSVS-800 Crewe Va. s/off @ 6:15 w/theme song "Don't Say No." 6:30, WBBB-920 N.C. w/very cordial s/off. 3/6- 5:42pm WSYB-1380 Vt. 5:52 WFEG-1290 Pa. 6:01, WPVA-1290 Colonial Heights Va. 6:03, WMPM-1270 N.C. 6:15, WNCI-1070 N.C. 6:30 WLLI-930 Lynchburg Va. s/off. 6:30 WBBB-920 s/off a-gain. 3/8- 6:17pm WHEE-1370 Va. w/rr "From WHEE especialce". 3/9- 10pm, WROC-1280 N.Y. 3/25- Midnight, CMW-590 in rather strong u/WARM w/standard chimes. 12:10am CJKL-560 Kirkland Lake. MM 3/27- 12:08, WBOC-960 Md. s/off. 1:23, CKOY-1310 Ont. w/deep-voiced announcer 1:30, WFLI-1070 Tenn. alone & strong. 1:34, long-wanted WRC-900 mixing w/WONE. 3/30- Two more long-wanted. 6:30, WCIR-1070 W.Va. 7pm, WAPI-1070 A-1. 3/31- 6:15, WADR-1080 N.C. s/off. Kind of early for N.C.? 6:34, WKBY-1090 Va. 4/2- 5:17pm, WAXC-1460 N.Y. "Wax-C 14". 6:43, CHIN-1540 Tor-onto smashing local WPTS right off the channel. This MM 4/3 is full of static so I will call it off, besides that I feel as though I will deze off any second.

DAVID BURKE - 5538 Palmetto - Toledo, Ohio - 43613

Three veries received this week: WMCA WJIA & WPEH-1420 Louisville, Ga. on 1/c 3/21. This is a very friendly station for DXers. If you can fight WHK you will hear them every 36 Tues. Anyone collect air checks of SIDA? I'd like to hear from you, if so. 73s & good DX.

JOSEPH A. MARKIEWICZ - 139 1/2 Elgin Avenue, W - Winnipeg, Manitoba - R3E - 1E6

A new station heard here every day is the new KRWN-880, heard with decent signals at times, but not as good as KFAB day signals. At night, KRWN is quite weak & is usually u/WCBS & I've noticed TGJ can still be heard regularly at night over both WCBK & KRWN while KFAB is like a local. Many other stations can be heard in Winnipeg during the day hours (11am-2pm)CST) almost all year 'round, if the noise level isn't too high. The 50kw clears from Chicago like WBEM WMAQ WJJD WGN & the Rock are good days here (750 miles). KOA & KREX (more than 800) also good days. Sometimes KOA has been heard w/2 1/3-9 o/WWJC. The Twin City stations like WCCO WDCY KSTP WLCL WPTC (400 miles) & other Minn. stations heard fair to good. Around Oct.-Dec. stations like WJR WHAS WONO WJW KMOX are heard all day while KGA KIRO & a bunch of Alta. stations like CJOC CTVT CKDR CHQR have been heard as late as noon CST. The two FF LPRTs on 860 put in excellent days and some nights. Both are located 0/200 miles from here. That's pretty good for 40w, n'est-ce pas? So on an average day four provinces and ten states can be heard: Alta. 1, Sask. 9; Man. 13; Ont. 4; N.D. 27; S.D.-12; Wis. 1; Neb. 2; Mont. 4; Colo. 2; Minn. 20; Ia. 1; Mo. 2; Ill. 5. The K I use is an old Viking six-tube, AC operated Superhetrodyne, & the only antenna used as a ground connected to a cold water pipe, & that's all. Some veries: WTIC-1080 KMDC-1490, #25 verified from N.D.; now if only KTGO-1090, KGCA-1450 would verify. KOFI; KWA-TEST, WOV WIAW & KWYR-1260 who say they receive 200 reports per year. ERC wanted to know what the weird combo of letters, numerals meant. From the folder put out by the P.O., it would take at least 30 lines to explain but in one sentence. A family or place of business can be located right down to a single intersection and house. The P.O. say their system is far superior to the Yankees ZIP and one better than the Limeys'. During the Easter Holidays, my parents bought a colour TV - that's SIX TV sets in the house, hi. 73. (Please tell 11226 how it works, hi!)

JAMES E. CRITCHETT - 1504 Glenwood Drive - San Diego, California - 92103

Between 3/21 & 4/3 reception reports have been sent to KGRT-570 for their XR & studio adjustments broadcast (I quote from their verie) on 3/27 CST, & to KIDM-1150, same morning. Verifications of reception were received from KBOW-550, KGRT-570 & KRRR-1360, who said mine was the first reception report from a DXer. I have been DXing at some time nearly every night, but nothing new except for the two above. On this, the first Monday, KNX-1070 was off from 4-7am, but XEPRS-1090 is so strong here that nothing was heard on 1070 between 4-5 with frequent checking. XED-1050 was off, w/XEG replacing it; XEBM-950 off, & KJR on top, here. On 1000 I had two TPs, one giving the time @ 4:16am as 9:16 and at 4:23 as 9:23; could have been LZD, but KOMO came on, testing @ 4:23:30. I forgot to try for KUPK-1050, but it's heard well when XED is off, mornings. That is all for now. Best wishes to DXers in verie-collecting.

I regret to inform her DXing friends of the passing of my wife Paulene on March 23rd from throat cancer. She is sorely missed.

ST. LOUIS CARDINALS NETWORK  
(ILLINOIS ONLY)

WJBC-1230 Bloomington  
 WKRO-1490 Cairo  
 WBYS-1560 Canton  
 WDSW-1400 Champaign  
 W DAN-1490 Danville  
 WCRA-1090 Effingham  
 WGIL-1400 Galesburg  
 WEBQ-1240 Harrisburg  
 WJPF-1340 Herrin  
 WJIL-1550 Jacksonville  
 WKEI-1450 Kewanee  
 WAKO- 910 Lawrenceville  
 WMBD-1470 Peoria  
 WTAD- 930 Quincy  
 WTAY-1570 Robinson  
 WHCO-1230 Sparta  
 WMAY- 970 Springfield

## NEW YORK Y NKEES NETWORK

WENR-1260D Beacon, N.Y.  
 WKOP-1360 Binghamton, N.Y.  
 WENT-1340 Gloversville, NY  
 WKNY-1490 Kingston, N.Y.  
 WMCA- 570 New York, N.Y.  
 WALK-1370D Patchogue, N.Y.  
 WRIV-1390D Riverhead, N.Y.  
 WWNY- 790 Watertown, N.Y.  
 WINF-1230 Manchester, Conn.  
 WVPO- 840D Stroudsburg, Pa.

Keep watching the up-coming DX NEWSes for details on the up-coming NRC Miami-area Convention, which is up-coming. All up-and-coming young DXers, and oldtimers too, will be coming up - oops - down - to be on hand for the festivities and friendship, and DX talk, and station visiting, swimming, and scenic trips, etc. A great time'll be had by all! Remember, it's up-coming!

PAUL SIDNEY - Box 815 - Sag Harbor, L. I., New York - 11963

hello. I thought it would be a good time to Muse, as I have not done so in a few months. I read with great interest the Musings of the guys who talk about programming & what other stations are doing as far as format, slogans, etc. I think many of the NRCers are interested in this aspect of DXing, as well as just hearing them, which of course is also fun if the catch is rare enough. There are a few who talk about programming, & I really enjoy reading them. Mike Collins is one, & there are others. I have been riding around the (Long) Island at night, & now have a fairly good idea of how the two fulltime stations get out at night. While it is true that WGLI-1290 Babylon does not get very far N (barely heard on the L.I. Expressway, and only for a few miles). WGLI has a good signal E, & is solid as far as Patchogue, on the South Shore some 30 miles to the E, which is far considering they're running only 1,000w at night. West, they are very poor at night in Freeport, & the other fulltimer, WGBB-1240 Freeport covers a radius of about ten miles at night, which includes about two-thirds of Nassau County on the W end of the island, all except the North Shore. WGBB gets weaker in Babylon, & is nil E of it. Only in Amityville (between Babylon & Freeport) can both WGBB & WGLI be heard with solid signals at night. I think it might be interesting for other NRCers to describe day & night coverage areas of locals. For you NYC Metro area DXers who like to daytime DX, Montauk Point is a great area for some rare catches, with many Va. & N.C. stations in all day! It's a nice area to visit in the Summer to fish & swim & recreation. Montauk is at the easterly tip of L.I., 120 miles from NYC. I'd still be very interested in tapes of old stations in the late 50s & early 60s. Anybody have the old Color Radio of 1957 of KFWB? How about WJDO-1280 in late 1959 (rr) or early WKFN?

DAVID KABLE - 29247 Waldensia - Wickliffe, Ohio - 44092

Hi all! Many thanks to Ernest Wesolowski for sending me the reception report #38-1. I do not need it; I know how to write good reports. I'm passing it along to a local DXer who writes extremely poor reports. And I mean extremely! Also many thanks to Wes Boyd for telling me of the problems at HQ. ERC: I will talk less of my TV DX activities in Musings from now on. My uncle came down from Oakville, Ont. for a week, & last night we were "forced" to listen to messy CKFH-1430 - they were the only station that had the NHL hockey on 4/1. The CBC TV network said "due to labour difficulties----" That made me nice & mad! WPEC-1330 S.C. is as much a pest as WRRL-1600. Recent catches are WEW-1330 Ill. WTRX-1330 Mich., WFRG-1600 N.C., WYCC-1150 Ont., CJWR-730 Ont., WGGG-1000 S.C., making 275 in the logbooks. Everyone says CX are dying down. CX here are as strong as ever! My other local DX friend (John Sally, 29926 Truman) of Wickliffe would like to correspond to DXers on the WX. He doesn't have any good reason not to join the NRC, so someone on the WC, please convince him to join! I can't make it to Miami in September, unless I hi-jack a plane! Capt. Glotz probably will try to inspire me to do so but I won't! Maybe I could hitch a ride on WABC's carrier wave! I will send an article about WKYC to HQ soon. ERC, can you read clearly my printing? 73s, & more soon! (Yes, the printing is fine, David, but if you're be so kind as to double space, it'd help! -ERC)

RICH EDDIE - 152 West Rose Street - St. Louis, Missouri - 63119

Hi gang - I hope DX has been good & the QSLs have been coming in at a good pace. Two questions: I'm missing bulletins between Vol. 39 #10 and Vol. 39 #22 - in other words, the 60 pages was great, Vol. 39 #10, & after receiving, the first bulletin received was #22 - can HQ send these bulletins? And Question #2, is the NRC Pattern book out yet? If so, how much? I was interested at the start of the project. This DX season has been good as I heard & verified the WKJN-1380 Ma. DX TEST & the WQVR-1320 Vt. TEST - states #4 & 45 QSLs. I also sent a 2/4p to an old KOPR-650 Hawaii report & just three days before Easter I got their v/q for state #46 QSLed. KORL v/q was a nice Easter gift (hi). I still need Alaska, Cre. R.I. & N.H. Any hints as to best bets for these states? I also passed the 1,000 heard mark about a month ago. Totals now are 1,615/579, 47/46, 5/5 & 18/12. The next 1,000 are going to be three times as hard (hi). I have KIRL-1450 & KKKK-630 SCs for trade - both are rr. Good luck to Gordon Nelson & Tandy Kane after their misfortune, also good DX, Peace & 73s from the Gateway to the W - CUN 14.

CARL W. LABELSTEIN - 3300 North 56 Street - Lincoln, Nebraska - 68507

The month of March didn't bring a whole lot of DX, but a few new stations wandered this way. 3/3- KVOX-1280 Moorhead, Minn. w/r/c-TT @ 2:07. WBT-1110 Charlotte heard w/Hi @ 2:20 while KFAB was off. 3/6- WBAL-1090 w/NX at 5:30. WMAX-1480 Grand Rapids s/on @ 6. WESC-660 Greenville, S.C. w/NX heard at 6:10. WQAY-860 Oak Hill, W.Va. s/on-SSB @ 6:30. KREH-900 Oakdale, La. heard w/r/c-TT @ 6:45. WSON-860 Henderson, Ky. w/c/w heard @ 7:05. Later during the day, KRVI-880 heard with first day of RS on new channel. 3/7 brought KVOX-1280 Lafayette, La. r/c-TT @ 1:15. (KVOL-1330 maybe? -ERC) On 3/8 the r/c-TT from KTYN-1430 Minot was heard @ 2 L&C. I did NOT hear then on 3/20, the day of the re-sked of their TEST as promised by the CE. He has not yet answered my letter. The r/c-TT from WMOX-1010 Meridian, Miss. was also heard on 3/8 @ 2:30. Later, @ 7pm, KBIN-1420 Neosho, Mo. heard w/NX/WX. KXOW-1420 Hot Springs s/off @ 7:15. WVJS-1420 Owensboro, Ky. w/high school KKB @ 7:45. On 3/10 WLIQ-1360 Mobile heard w/r/c @ 2:17. PoP-TT from KCAD-1560 Abeline, Tex. heard @ 1:20 on 3/11. The r/c/s from KJEF-1290 Jennings, La. & KBLC-1240 Helena, Mont. were also heard. 3/27 brought r/c-TT from KWFT-1260 San Angelo @ 1:17. 3/28- WSET-960 South Bend s/off -SSB heard @ 1:15. Veries have been coming in quite good: WEW, KRIB, ZNS, WGVN, KBUN, WHI, KFRC, KREH, KEKS, KBIL, WAGN, WSON, KJEF, WKSP, ZEBI, WMOX, KHFH, KFSC, KVYL, KAHL, WDKE, WVJS, WQUA, WDAN, WKIG, & WSIV, all v/l. WMC, WEPB, WHEX, WBT, & WAYT v/q. KING, KMMO, WBAT, WNIO, WERC, KNOK, v/t. WJPR, KBIN, WTPS, KCHI, v/r. KBLL v/c, & KOVE v/CM. Total is now at 1,164. I hope everybody is having the static-free: hi) CX we have here. Good DX to all & 73s.

ALEX ONYSCHUK - 1643 Olive Road - Homewood, Illinois - 60430

Hi fellas. Interesting things sure happened in the mail lately. Issue #22 arrived 3/25 & #23 on 3/27. What gives? I'm writing this 3/31. It may take it to Issue #25, I just hope. A few more BB nets have arrived here in the last few days. Gardner Advertising, which handles the Cardinals' broadcasts sent me a letter stating that it's against company policy to release the entire network, but they were kind enough to send me the Ill. network (enclosed) The Yankees network arrived 3/20 w/a list of nine AMers. The Sporting News April 8 issue mentioned 35 though. The Pirate net came today 3/31. They replied that since KDKA-1020 is the only station that could reach me, no list. Any luck, EC NRCers? The Radio-TV log in the annual Sporting News arrived today (how nice). Personal comments: Baltimore on WBAL-1090 can pull through occasionally in the KAAY null. No network reply though. Boston on WHDH-850 has no chance w/KOA L&C, so I rely on WYIC-1080 mixing it up with the Rangers' KRLL. California, no chance on KMPC-710. Cleveland on WERE-1300 is clogged by WTAQ/WOOD so I listen to WAKR-1590. Detroit comes in clear D/N on WKZO-590 WJR-760 & WHPB-1060. Kansas City has no "biggie" to listen to. Maybe weekday SSSers KMA-960 or KVGB+1590. Milwaukee comes in L&C on TMJ-620. Minnesota on WCCO-830 fairly strong PMs. WHO-1040 readable days, clear, PMs. No Mets on WHN-1050, too much competition to hold onto. Tankees on WGY-810 is L&C. Oakland is out. I will miss Jim Woods. A terrific broadcaster. Atlanta on WSM-650 L&C or WSB-750. Cincy on WLW-700, good signal in daylight. Why another clear channel on network, WHAS-640? Houston clear 2/WQAI-1200, no problem. L.A. readable on good evenings late. Montreal, no chance. Phillies on WCAU-1210 L&C. Pittsburgh L&C on KDKA-1020. St. Louis w/120 stations, how can you miss? The Padres & Giants are out. Networks enclosed. I am running out of space. C U N 14. (Thanks for the BB nets, Ken - did you get the METS NET? -ERC)

RON MUSCO - 16 Chestnut Drive - Windsor, Connecticut - 06095

Two new additions have arrived at this house: (1) a new son, and (2) a Ralph Sanserino 2' DCI w/BET pre-amp. With the new baby I haven't had much time to use the loop but the little bit I have used it, what a difference over an LW! 3/26 With WTRY nulled & looking to get a decent report on WSUB-980, who do I find L&C? WCAP, Lowell, Mass. Time was 10am. That night I heard WIQT-1000 s/off @ C:15 for a newie but not enough for a report. 3/27 WRAC-1400 r/c heard 1:27-1:39am o/WYSL Buffalo. TT on 1490 per RJE was WBCB 1:50-2 end, no IDs heard. First new one on 1490 in nine years. WTXL can now be nulled! The question of the week: Who was on 1580 w/an announced PoP 2:14-2:23am on 3/27? Address given for reception reports, & power as 500w. Calls to ERC (he heard it but no ID), & RJE, who didn't

didn't hear it. Help! 3/31 - I nulled WDEW-1570 lkw & heard WPEP Taunton 5:25-5:40 for Mass. #44 & later WPGM-1570 s/off @ 6:06 for Pa. #47. 4/10 New son woke me up @ 4:15 so a peek at the f/c list showed first Sat. WPHI-960 Ky. I found them in L&C 4:33-4:45am end. TCs were ten minutes slow, no mention of Ky., & FM side as 105.5 kiloh rtz. Watch this one, could be deliberate "errors" per Jerry Starr's article. Veries: v/q- WAVZ WJDA. v/1- WCAP. 73.

JOSEPH FELIA Jr. - 150 Robert Place - South Plainfield, New Jersey - 07080

Recent veries are a v/1 from CFCB-570 plus various tapes of veries from the following TESTs: KLUC-1140 WNIO-1540 WHEX-1580 WAYT-1510 KIWA-1550 & WJDA-1300. Recent DX: 2/21 (continued from last report, hi) 3:03am, KLUC-1140 TEST was very strong in here, just a few shades weaker than local WNEW next door on 1130. 3/c- 12:34am, WOCB-1240 TEST made it & even got a good taped announcement. 1:49, WKIX-1350 ET/M, 2:59 WKKE-1380 start of an ET/M, 3:33, KIWA-1550 TEST fair to weak, but in the clear. 3/20- 1:10am, WJDA-1300 TEST all but wiped out by WFER. 1:43-1:50, probable f/c-TT on 1450, IDs every two minutes, sounded like WDAD, but was it? 3/27- 2:30am, WDEH-1500 on AN ET/M, 2:58 WFLB-1490 nited on AN without WOCB around for a change. 3:06, WEET-590 noted AN/NSP w/talk g.ving the Cuban a battle- all CBS stuff NSP now? 3:10-3:15, another probable f/c on 1450 w/TT, definite Y-call, second letter "L". KLWW looks like the only possibility that seems reasonable. 3:18 extremely weak ID caught on KIMM-1150 TEST & then various periods of TT, CKOC not that strong, but CX weren't very good. On Easter morning in Philadelphia, I noted a "Dave Williams" reading the NX on WIEP-92.5 - was that Dave Schmidt? To those of you out there who like AN stations, we now have 15 on AM and another 15 on FM, without any duplication. And this doesn't include the N.Y. suburbs. Even in a densely populated area like this, I just can't see the need for this many. This may be my last report for the season as I'm now getting ready for a very active Summer on FM & perhaps TV as well. (I still believe most ANs are AN only as "prestige" and to keep up with the Joneses - their competition - viz: WINS & WCBs, both doing exactly the same thing AN - ERC).

CARL "FLASH" JUNKER - 1920 Malcom Drive - Kettering, Ohio - 45420

Not too much time to DX lately due to school & work, but results have been good with the little time I've had. 2/25 was a good evening for SSS w/three new ones added: WUN-1590 w/rr @ 6:55pm, WACO-1460 @ 7:13, & WPCF, now WQPD w/rr @ 8pm. 2/26, another good SSS session w/seven new logs, KDLA-1560 w/MoR @ 6:30pm, WBFN-1500 @ 6:45 s/off, WQOM-1480 @ 6:45 s/off, KWRG-1500 @ 6:53 w/rr, KLPJ-780, a real surprise @ 7-7:15 s/off completely dominating the frequency w/ KYFO -790 @ 7:30 w/CBS sports, & finally WJBO-1150 @ 8:08 w/WX & sports. Much-wanted WILY-1210 @ 7:15 after several years of trying. MM 3/6- WOCB-1240 TEST in weakly w/Code IDs, pierced the jumble nicely. WROV-1240 @ 1:05 w/NX, KMWX-1460 w/WPNX nulled @ 2:33am rr, two other rock stations also heard here. KIWA-1550-TEST heard extremely well @ 3:05, CJTR-1140 w/rr @ 3:15, a surprise KBGO-1580 w/ET o/u KLOU ET @ 3:35, CKVL-850 @ 3:55 w/NX in FF, two new provinces logged w/CHNS-960 @ 4:05 w/NX/WX, a fabulous signal, & finally after many tries, CENM-740 @ 4:27 s/on u/Cuban/KCMC/WKIS & several tests, taped but extremely weak, one of my most fruitful MM sessions in quite some time. MM 3/13 a real dud due to QRN, only new log was WATS-960 w/f/c @ 12:30am. Local WING-1410 was off but just too much static to get anything new so I went to bed. MM 3/20- Local WING off again for EP, logged WYMB-1410 @ 12:40am r/c. WPAD-1450 @ 1:45 w/f/c, (ATT: JOE FELIA -ERC), WKFE-1550 @ 4:20 w/r. Cafe ID, good signal, another new province, C.NB-550 @ 4:45 w/c/w & R. Atlantic IDs, also CENM-740 heard again w/4:27 s/on but even weaker than first time. YVIN-1000 @ 5am s/on, YVIN-940 @ 5:25, & a surprise, WACE-730 @ 6am s/on. Does anyone know what time is R. Carribean-840's s/on? I have heard a "Back to the Bible" program here in EE from 4:20-5am practically every MM for months but can get no ID. 73 & long live stations that s/off MM. GBS-560 reported in IDXD & Musings should not have been GSB, sorry for sloppy reporting. 73.

THERE'S AN EVENT COMING UP LATE IN SUMMER - WHICH PROMISES TO BE A REAL DING-DUMMER. SO GET IN YOUR PLANE OR BOARD A RAIL TRAIN - AND BE AN N.R.C. CONVENTION COMER! SEPTEMBER 1-2-3-4 ARE THE DATES - MIAMI IS THE AREA. STAY TUNED FOR MORE DETAILS!

MIKE COLLINS - 2021 Main Street - Stratford, Connecticut - 06497

Hello. There seems to be a lot of radio news in the past few weeks. The N.Y. Times, which had put its WQXR-1560 up for sale announced it now will retain the station. To cut expenses, they plan to ask the FCC for permission to simulcast the cl format on AM & FM 100%, like WGMS-570 has been allowed to do. A Court of Appeals has denied WAIT's request for reconsideration of an FCC decision denying them fulltime operation on 820. They had sound lokw N (5kw D) U-2, & said interference to WRAP would be only slight, in a crescent-shaped area from Ky. to S.D., & said this area is already served by two clear channels, & they claimed no one listens to WRAP in this area anyway. According to Broadcasting this marks the end of WAIT's five-year fight to go fulltime. In another action, the FCC denied WGN's request to revoke the CP of KIQX-720 Las Vegas. But KIQX will not be able to begin construction for at least a while, because the holders of the CP are in trouble with the FCC because of alleged logging violations at another station they own, KTYM-1460 Inglewood, Cal. Beginning of construction of KIQX is being held up, pending the outcome of the KTYM hearing. KPNC-1560, WCAR-1130 and WTRY-980 Troy N.Y. have all joined MBS. WTRY is only carrying the ads, not the NX-casts. WCRB-1330 Waltham, Mass. is the new Ae affiliate for Boston. WCRB has been simulcasting its cl format on AM & FM 100% all along, which it can do, because the city of license is less than 100,000. Recent DX: MM 3/20 showed only the WJDA TEST around 2am w/ID TT & mx. WJDA was u/WFER, & both were u/local WAVZ-1300 New Haven which was on testing on its Day pattern. The WJDA-1300 Quincy, Mass. TEST has been the only one heard recently. I tried unsuccessfully for the ones on 570 1150 & 1430 (on 3/20 & 3/27) for N.M., S.D. & N.D., all states needed. On MM 3/20 I heard WIXY-1260 Cleveland for the first time @ 1:45am. MM 3/27 showed two new Cal. stations for me, KFBK-1530 and KKHI-1550 both in amazingly well around 3am. No sign of KPNC-1560, however. A tip from NRCer Ralph Sperry of Fairfield, Conn. enabled me to hear ZIZ St.Kitts now on 555k, heard 3/27 around 9:45pm w/a pretty weak signal. I've IDed WKFD-1370 as the one u/dominant WALK L.I. days here w/the LW. One verie, CFCB-570. Thanks to hel Swartz for hosting me several days in March, also I had an enjoyable rap session w/BGK & CDP. 73s.

CHRIS WOODRUFF - 7865 Allison Avenue - Dayton, Ohio - 45415

Hi everyone and greetings from the "Gem City." Since I am a new member, here is a brief intro: I am 13 years old & have been DXing for about a year. Totals are: 256 stations heard & only 30 verified. Also 33 states heard & 20 veried. Receivers here are a Hallicrafters SX-99 w/a loop antenna & a Realistic TRF. Now to DX. KFI-640 Cal., KFH-1330 Kan. & KSOC-1140 S.D. All were MM except KFI. Those were stares #31-32-33. MM 3/27 I heard WCEB-1590 Pa. w/a f/c. Also KNX-1070 Cal. u/a big mess. It didn't stay around long enough for a report. Part of the time it was covered by a TT. The KIMM TEST was heard here just before they left the air. They were heard u/Canadian CKOC on 1150. KIMM was S.D. #2. No sign of KGRT-570 TEST due to WKEN O. Did anyone hear a pirate on 1330 on MM 3/27 who IDed as "Mystry Radio." They played records on the wrong speed & were on only around five minutes. He said if you could guess his frequency he'd give you an all-expense paid trip to Cuba. He didn't give a location. That's it for now. 73 (Welcome to Musings & to the NRC, Chris! We hope you'll Muse often for us! -ERC)

FATHER JACK PEJZA - 3266 Nutmeg Street - San Diego, California - 92104

IRCA is holding their annual convention in San Diego from Fri. June 30 to Mon. July 3. Everyone is welcome to attend & participate in the activities of the convention. Several station tours are planned, plus a beach party, & at least one guest speaker. Since this is a holiday weekend, the hotel, the Fabulous Inns, is asking that reservations with a deposit be made by June 16. If you are planning on attending, please contact me for further information. Get to hear the world's only AM-stereo station, XETRA. Witness for yourself how badly the local Mexicans splatter. My phone number, for those wanting more information, is 714-282-0076.

THE NEXT ISSUE IS IN TWO WEEKS, WITH THE BROOKLYN DEADLINE FOR THIS SECTION THURSDAY, APRIL 20th. BE SURE TO DOUBLE SPACE, AND REMEMBER, THE LINE LIMIT IS 30. NO PERSONAL MESSAGES TO OTHER MEMBERS IN MUSINGS, NOR NAMES OF VERIE SIGNERS. -ERC