



DX News

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"During my 2 years as an NRC member the improvement of DX News has gone from good to superior... I can't say enough for the BPC and members of NRC!"

(Marv Garber, Nebr.)

IN THIS ISSUE...



Simple Audio Filters - Russ Edmunds
Latest NRC Log Updater - Russ Edmunds
Baseball Networks - RjE & ERC
Reports from Thailand and Hawaii - Wood & Hauser

NEW MEMBERS !

- *Eric DiRicco, 540 Gallion Ave., Pittsburgh, Pa. 15226
- *Ira Goldhaber, 1818 Ocean Ave., Brooklyn, N.Y. 11230
- *Eric McIntosh, 5 Wilfrid St., Invercargill, New Zealand (rejoins!)
- *Bob Hutt, 9242 Harwick Rd., Indianapolis, Ind. 64240
- *Bob Mowrer, 63 Anthony Wayne Dr., Wayne, Pa. 19087
- *Donald Share, 340 Shady Woods Ave., Memphis, Tenn. 38117
- *David Dunn, 81 Florence Rd., Apt 2A., Branford, Conn. 06405
- *W.F. Brazelton, 952 Carolina Dr., Apt 24, Livermore, Ca. 94550

Welcome to the NRC, gentlemen, your New Member Kits are already in the mail and you will be receiving them shortly. We hope to be reading your contributions often here in DX News.

NEW NRC LOG NOW BEING PRINTED!

The first pages of the new 170 page NRC Domestic Log are now on the presses as previously announced the new edition will feature a plastic spiral binding and full station information updated through May, 1970. **Full information on prices and availability next issue.**

ANOTHER BIG ISSUE...

Once again we're putting out a 40 pager - over the last 4 issues we've averaged 39 pages per issue! ERC's copy arrived almost 24 hours past our deadline this week; rather than put out this issue without Musings we're forced to publish several days late... Editors: PLEASE MAIL EARLY!

FOR SALE...

Too many receivers to list here such as Hammarlund HQ-129X, HQ-150, HQ-160, National NC-400, Hammarlund Super Pro, etc. Send SASE for detailed list to Dick Nelson, 20962 Itasca Street, Chatsworth, Ca. 91311. (Dick Nelson)

Starting a station of your own? Our good friends at Gilfer Associates have a special deal on a set of books of special interest to AM broadcasters books, all published by TAB, include:

Radio Promotion Handbook - Wm. Peck
 Modern Radio Broadcasting - R. H. Coddington
 Radio Program Ideabook - H. Fisher
 Managing Today's Station - J. Hoffer
 CATV System Engineering - Wm. Rheinfelder
 Broadcast Station Operating Guide - S. Robinson
 FM Station Operations Handbook - V. Ray
 Interpreting FCC Broadcast Rules and Regulations - Editors of BM/E mag
 Technical Papers NAB Engineering Conference 1968
 " " " " " " 1969

The book value for this set is about \$75 retail, but Gilfer will sell the set for only \$20.00. Write Box 239, Park Ridge, N.J. 07656.

ANARC CONVENTION COMING UP!

The 5th Annual Association of North American Radio Clubs Convention will be held July 31st, August 1-2, 1970 at the Lake Tower Inn, Lake Shore Drive at Ohio Street, in Chicago, Illinois... Convention Capital of the World!

Rates for singles at the Lake Tower Inn are \$17 and twin doubles are \$23. The registration fee of \$10 includes the banquet Saturday night, Sunday breakfast, and eligibility for one of the prizes. **All registration fees should be sent to** Convention Chairman Jerry Heien. Registration cards are available from Jerry.

The Lake Tower Inn is located on Chicago's Lakefront and is convenient to the downtown Chicago area which is within walking distance. A free bus to the Loop is available to all registered guests. There are parking facilities available at the Inn and nearby. We also have the use of the swimming pool.

On the program is a scheduled tour of the WGN studios on Saturday AM. The guest speaker will be announced later.

- Info from Herry Heien

SPECIAL THANKS

are due to Publishing Committee members Randy Kane, George Kelley, Ray Moore, Mark Katz, and Tom Holmes for recent extra efforts (above and beyond bringing you DX NEWS) on the reprint, Log, and New Member kit projects. Their efforts keep the NRC operating!

*GPN

LIST OF MEMBERS REPORTING FOR NAME IN LIST - 3/9/70

Name	Address	Club
1. Larry M. Abraham	6370 W. Tuscola, Frankemuth, MI. 48734	I
2. Larry E. Black	6501 Broadway, Indianapolis, Ind. 46210	
3. Robert W. Botzum	1222 Pike St., Reading, Pa. 19604	N
4. H. Wes Boyd	c/o WHOT, Youngstown, Ohio 44505	N
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7. Raymond N. Coleman, Jr.	3 Longford St., Huntington, NY 11743	
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13. David Hezerman	7707 Park Ave., Pennsauken, N.J. 08109	
14. Larry B. Godwin	Box 9352 S. Denver Sta., Denver, Co. 80209	IN
15. Bruce T. Goldman	2180 Bolton St., Apt. 1-F, New York, NY 10462	
16. Raymond K. Hartman	19330 W. Pinecrest La., New Berlin, Wi. 53151	
17. James E. Hill	698 Jane St., Apt. 405, Toronto 9, Ontario	N
18. Carlton Howington	13880 Greenland Av., Uniontown, Ohio 44685	N
19. Bill Jack	205 Spruce, Flourtown, Pa. 19031	
20. Ed Krejny	6538 Belmeadow Dr., Cleveland, Ohio 44130	IN
21. Alan Merriman	Box 6, Fairfax, Va. 22030	N
22. Stanwood R. Morris	Rt. 3, Bradford, Ma. 01830	N
23. Ronald J. Musco	16 Chestnut Dr., Windsor, Ct. 06095	N
24. Bill Mittler	Box 112, Englewood, Co. 80110	I
25. Fred Osterman	436 N. Forrest Rd., Williamsville, NY 14221	IN
26. Dennis Pimper	540 N. 6th E., Brigham City, Utah 84302	NNRC
27. Wayne Plunkett	124 John St., Weston, Ontario	N
28. Ronald J. Ponke	8079 Dale, Centerline, Mi. 48015	
29. Michael Reid	116 Munro Blvd., Willowdale, Ontario	I
30. Shelby Remington	2751 Dixwell Av., Hamden, Ct. 06518	I
31. William Ritzel	1833 Dummere Rd., Baltimore, Md. 21222	
32. J. Warren Routzahn	206 N. Forrest St., York, Pa. 17404	N
33. John Sampson	4444 Wycliff Dr., Winston-Salem, NC 27106	N
34. Murray Schulman	100 Linden Blvd., Brooklyn, N.Y. 11226	RNYWMLC
35. Jerry Starr	c/o WHOT, Youngstown, Ohio 44505	N
36. Sheldon Swartz	41 Pole Plain Rd., Sharon, Mass. 02067	N-RLA
37. Page Taylor	Bartholdi Ave., Butler, N.J. 07405	N-NRC
38. David F. Thomas	Box 11531, Tampa, Fla. 33610	
39. Rick Vittl	48 Hoyt St., New Canaan, St. 06840	
40. Roger W. Winsor	718 N. Fremont Rd., Valparaiso, Ind. 46383	N
41. James Ziegler	, Milwaukee, Wi.	I
42. Bruce Zuckerman	3 Suburban Rd., Clark, N.J. 07066	N

Plus a few phone calls from persons not reporting in writing: Ernest R. Cooper, 408 E. 21st St., Brooklyn, N.Y. 11226; David Perry, Bound Brook, N.J.; Tom Sundstrom, Millinboro, N.J., calls from WTLX-1490; WTLB-1310; one other from Utica, N.Y. (David Lugaitis) and one from Binghamton, N.Y.

LIST: N- NRC; I- IRLA

MUSINGS of the Members

Ernest R. Cooper
438 East 21st Brooklyn, NY 11226

BILL STONE - Box 97 - Claremont, Ontario
All settled in at new home, 50 miles SW of Claremont - lots of work to do. Don & I got up a temporary antenna 600' long. It runs WNW/SSE 497' with 100' lead-in running SW/NE. It is very directional NYC-way, but is actually oval directional. We heard most mornings. Verles in: CHED WRQM WMOB WKCY WREY WARD WEFM KRAK-800 & KICS. YVIX from old place. U.S. Mail's getting up here OK since month's end, except Boston. last bulletin in 3/18; nothing since. New NH station on 1070, CHOK, AM-7. Reports out to WISM WAFT WPRE on f/c WCKL KSGT CHEN-870 CHED-1200 XERCH WABR. On WADR, s/off is 6:45am, s/on 5:15am EST, regular here. WAFT WXEL on f/c. On true reports: WUWK WDEL WONE WRNY KOKA CKAP WYN YSIX NIRD HULC-1000 CP90-1590.

TIM DAVIDSON - 207 Winchester Road - Apt. 131 - Akron, Ohio - 44313
Jed cooks! The DX 1999 4/12- DX since last Meeting (years ago, hi!) has been very good: 3/23- KIKP-1150 Ariz @ 3:40am w/tr & PSAs through the mess (A /ria.) KRAK-1140 Cal. & WJBC-1140 S.D. @ 2am. 3/25- WLV-1340 Mich. @ 1:40am dominating the channel w/tr. Then, on happy day 3/30: WCVU-1350 Va. @ 3:30am w/PSAs & rr-ish mx, report out. Then, geez! KYOK-1590 Tex. f/cing. I caught only "KYOK, Houston, Texas, testing" @ 3:57am, so no report. I also heard a very good music station w/a high-pitched male or female announcer talking only on the hour and half hour, 95% instrumentals, i.e. Hollyridge Strings, etc. /nobody know who? In case you wonder why I'm so happy, I have WSLR-1350 AM-7 with their XH six miles away, and WAKR is 1590 AM-7, about nine air miles from here. WCVU is the first station I've heard on 1350 other than WSLR EVER! Next biggest 4/4- KIKP-1270 Idaho s/off @ 2:15am w/"Be Still & Know" program, ID, and "May the Good Lord Bless & Keep You," sung by a female vocal group, Idaho fl. Verles: v/1- WJSP WJVM WJBT WJRC KJMO (f/up) WBBQ KJCK (returned stamp) WLAV (v/s wants to join NBC, he's a Dixer!). v/r- WWSB WTAZ WKBO (Ohio 67 verified) WJRN CKPT (plus SC & CI). v/c- WBBQ (Not too great for a rich RKO station). v/3- WMTS XETRA KJYK (Ariz. 92 verified) KYOK (finally heard then) CHOK. Totals: 1,223/458. Flity new loglines in 1970, 43 new verles. Of course, not all of the 50 heard were reported, so there are many overlapping reports from 1969 coming in. I'm at WJBC-1150 on weekends, w/tr from 6pm to 6am. Pulse says ratings are up 300% from last Nov.-Dec., so they may go AM-7. Got 1150s verified while you can. With WONE's night pattern, they might as well be off on this side of town! As you can guess from the ratings climb, WONE was a very big DOG before. Supposedly we're a strong #3 now and climbing. See you all in NEW YORK for the Convention. (OK, New Jersey, hi!) 73.

RICK EVANS - Box 1933 - Gary, Indiana - 47407
Long time, no report. I had lost interest for a while, and when it kicked up again, I discovered the helper I was training at work was actually my replacement, hi. So, I have been busy looking for work. 3/22- WQMS-1050 Va. r/c 12-10:20. 4/12- WMS-1460 Ohio heard w/TT between 1:13-1:30. 4/20- WISC-1450 S.C. heard on r/c 1:53-1:56, extremely poor, which might be understandable with Chi still on; WCLC-1260 Tenn. r/c 2:15-2:30 w/Dixie-style mx. Oodles and oodles of verles but only a few listed here: v/1- KSIM WJMF WPUV WSHH KYWO WJRH WCOV WKOG KZRB KOYN WJAG WKCY WATS. v/q- WIBC XETRA KJSA WJBR WJJC WMAI WJMT. v/c- ZBVI (country /s). v/PP/c- WNKY KTHS KOLS KALO WJNT KDFN WCVS WSYD KARV KOIM WAFD WFCO WJZJ WSKS WMBH KUDL KULY WMOB. Harry Helms, thanks for the MIXE verle. I've been busy this season w/f/ups & they seem to work best about 3-4 months later, rather than waiting 2-3 years, hi. Thanks much for the help, Dad. 73.

ANDREW P. HADD - 15 Lake Breeze Avenue - Point Claire, Ill. 62450
In mid-May, CHCF-40, Windsor, Ont. should begin PP parallel to CIBC-500. I'll be living in Toronto from June 1. 73.

BOB KAMMERWINK - Box 3191 - Daly City, California - 94011
4/23. Hi. I haven't missed in over a month so I have a lot to report. This report is in EST except those entries from before 4/25, which are in EDT. The way I keep from being confused is to keep a clock on EST in the den & always refer to it. All logs, etc., are in EST - only letters to the stations are in local time, which can be anything. Well, mail service is pretty rotten lately. I received #22, 23, 24 all together & all postmarked Mar. 15, Boston, Mass 10" & yesterday I received #25 & #26 together postmarked "Apr 19 S.P. Annex". But at this point, I'm caught up. Now maybe we'll get back to MT delivery. Who wrote those April Fuel notes? Some credit should be given. I especially liked what Alan De You Use? and Verle Signers?. (Blush blush - I did, Bob - ERC) It looks like I may be able to make the Greater New York Convention this year. It depends on my vacation period. I was sorry to hear of the passing of "Sex" Ringler's wife. I am one of the many customers he has. To Bill Stone, re WJAS-TEST, a remote-like verle is in the 10/7/67 issue of DX NEWS in the form of a list of all verifiable reports of the WJAS TEST. And your name is included. Can anyone confirm that YVIX, Caracas, is using 200kw? To more personal DX, my totals for this season so far: 109/79 stations, 24/20 states, 3/3 provinces, 5/5 countries. Today 4/23, KZFP-980 s/off @ 9:30pm w/KVIV dominant. By 9:50 KQVB in w/KJMS under. 4/20- Foreign language IAC (notSS) probably PJB w/CHW under. KW10-1410 r/c w/KHHH/CHW logged Jan to 2:15. I logged WJQ-1040 2:38-3:18am. KJCS-940 weak @ 3:32am w/SS minimal. Lately I've been DXing only on NH, e.g.: 4/13- KQJN-970 2:47-3 s/off. KJIR-1370 ET 3:35-3:57am. Using both .5kw (PSA) & 1kw; verles both also. WJH-700 4:00-4:31am. MM 4/6 I logged KJER-1390 2:35-3:03am s/off. KJIK-1230 3:05-3:25am ET (verified). I logged KJRW-980 3:27-4:10am & KJUB-590 ET 4:12-4:30am. CHLO-730 on @ 4:40am. KYXI-1520 on @ 4:59am. KGA-1510 off 5:02am but nothing heard except KJIX-1500 stop. MM 3/30- KQFT-1180 1:54-1:59am s/off. KJW-1250 2:18-3:00am. I understand they're hard to verify. KXL-750 logged on TEST 4:07-4:30am. On 3/16 I logged a few IDs from WJIN-1580 ET between 3:35 & 3:50am, reported, but no verle so far. 73.

JAY MURPHY - 1733 Candlestick - Newport Beach, California
Listening fell off as I didn't have everyone else's catches in DX NEWS to prod me on. So there's a corollary, I guess - issue the mag 52 weeks a year & attempts to battle the summer HDLs will increase, as all endeavor to follow fresh tips of South Africans, Argentines, and DIs. With May Day, WJAP-570 becomes a thing of the past. Not to mention WFMA-820, of course. I note an accurate report from a Spitzbergen Dixer on KFI's bulletin board; any time the old California Giant can add another country reported from after all these years, they're rather proud of it. I sent one of my very rare reports to Probbisher to check a very tentative. That's verle #1 for '69-'70. Very rare! With several firm loggings of Turwa-944, I didn't report 'cause the scribbled notes were firm enough for me. Well, I might get another entry or two for PDXC #2.

STEWART BRACK - 2108 South Simpson Street - Philadelphia, Pennsylvania - 19142
I was so disgusted during April I just almost forgot about DXing, hi. It seemed as though the Summer doldrums set in early this year. But going back beyond that to 3/16, I heard WJEB-1550 on r/c-IT @ 12:16am. Then on 3/23, R. Nordsee-1610 @ 12:47am BE. I then heard then several nights. On 3/26 KWYA-1500 FTing @ 1:16am w/WTOP off. Then DXing seemed to stop completely until 4/20 when I found WJMT off & heard WDCR-1340 w/good mx @ 2:53am. The lack of hearing anything new was not from lack of trying but just nothing new being heard. Then this evening 5/1 I tuned to 1050 & heard WJEB w/EHC mx @ 8:10 & s/off @ 8:15pm. Verles in during this last period were from WJEB KFTV KJCK KJIZ CHLO & KWFA. To-tills now read 2523/2304. My congratulations to Raully Sawyer & his bride, along with a couple others who tied the knot lately. On Monday May 4th my wife & I celebrate our 30th anniversary. To you newlyweds, always remember there are two sides to every story - your wife's side, and the way she sees your side. Good Summer DX to all. 73.

B. WIERKLIAN - Metcalf Hall - McPherson College - McPherson, Kansas - 67460
 Greetings from the Sunflower State! While I take a break in studying for a chem exam tomorrow, I figure it would be a good time to run off a quick blurb. DX has been good when I get a chance to listen. Here's the latest rundown on what's up in my den. 3/30- KPRK-1530 @ 2:07am, KPUR-1440 @ 2:15am w/r/s on early, WIRE-1430 @ 2:27am, KTOB-1420 @ 2:31 w/s/off w/SSB in like a blockbuster, WING-1410 @ 2:38am, umm but still good to hear, KESC-1390 @ 3, UNID-blockbuster, WING-1410 @ 10:14pm, KOKX-1310 @ 10:20 fighting w/WRSH, KULT-1320 @ 10:30pm 1380 @ 3:00 w/SSB, who was this? WSPD-1370 @ 3:06 w/s what sounded like an SS. 4/2- WSP-1310 @ 10:14pm, KOKX-1310 @ 10:20 fighting w/WRSH, KULT-1320 @ 10:30pm w/report of a traffic jam. 4/4- CFRB-1010 @ 12 w/ax & KK, CBR-1010 @ 12:02 o/CFRS w/CFRS w/ax. 4/5- This was a real surprise. I was lying in bed listening to KLIF for no reason on my RCA clock radio, when @ 9am CFSL boomed in o/KLIF w/sbn. It nearly sent me through the ceiling to hear the kind of signal I did. 4/11- KDCS-970 @ 3:11am r/c-TT w/ID @ 2:15. 4/14- KPOR-1240 on SSB @ 3pm on my car rx. This logging thanks to a very convenient pass by KAKE. 4/9- un-ID-1030 @ 2am TT in the den, I thought I caught "Cincinnati, Ohio" but not sure. Question: was this WCKY on r/c? (WCKY has HI-WI at that time -ERC) UNID-1540 @ 1:58am o/off w/SSB w/KKLL. This also noted 3/29 w/mention of 50kw. Question #2 - who is this? Well, that's about it from McPherson. Time to hit the books once again. Don't forget the P.O. situation! My dad happens to be a mail carrier! 73s.

CESAR COLTIO - Calle Benigno P. Rojas 46 - Santo Domingo, Dominican Republic
 Hello friends, here I am again. Today (4/24) I received two copies of DX NEWS, one with no date and another one dated 4/11 (73C). It is too bad to be receiving it this way as I have been thinking that it is not being published any longer, or that the Club does not exist any more, hi. Now with two copies at the same time I have to read fast and try to be up-to-date. Besides as I do not receive it regularly I do not listen on the radio as usual and perhaps I lose information this way. Well, my last weekend was spent at Altamira, my wife's birthplace, we went up there as she wanted to visit some relatives and I in order to check stations from up there. This place: Altamira, is 13 miles SW from Puerto Plata in a straight line, but 19 miles on the road, not a good road, and 1020 feet high on the mountains. The only Santo Domingo station heard strong & no CFM is R. ARC-540, other stations are not easily heard. Almost all stations in the Northern part of the country are heard from here, except from San Francisco de Macoris, Nagua, Sanchez, Samana. Radio Monte Cristi-630 HI/F is heard very well despite what you may think on my saying so. R. Santa Maria HDW and R. Isabel de Torres-HIAB, both on 590, had quite a fight, but nothing one the other one could be heard very well. WWSO-830 covered HIJB completely, how do you like that? WVR-300 was as always, strong as a local station. WVER-1025 also very good. R. Lumiere was heard on 660 & 720. Some Venezuelan & Colombian stations were also heard good. With this trip I checked all stations in the North and a complete list of Dominican MW stations is ready and sent to HQ for publication. Extra: I said that Dominican stations will be on May 15, not on May 30, I have to know the date as I have to work on a voting plane, a dangerous job in such a hot country, or if you still have a doubt you may phone the Dominican Consulate in NYC. I don't know anything about this Colombian station on San Andres Island on 870. I have two local stations, one on 860 and another one on 890 & it is difficult to get a null on both at the same time, then these nulls are not good for San Andres DF, but anyway I will try, as it is going to be strong it can be heard. This is all for the time being. See you all.

J. ALEX DOWNS - OE Division - USS Forrestal - FPO, New York 09501 (from Malta)
 I'm at least starting to familiarize myself with the BCB here in the Mediterranean. Great - since we'll be back over here next year for another deployment. But home again in July, and the ship's yard period in Norfolk late Summer should be conducive to my attending the Convention this year. Most of my DX has been half-hearted, limiting myself to the languages with which I'm familiar (total: 2). My progress have been heard on Tunis-952 1901a-1474 & Pirena-1394. I don't know how up-to-date the 1970 WRI is, but my 1969 edition seems to be very inconsistent with what I hear over here.

What is the location of KVVJ-12.27. Are Onda (SP4C) & Melilla (EAJVI) considered a part of Spain, or are they separate geographical subdivisions in Africa? How are they related country-wise? Thank you all for your help. 73s.

GEORGE E. BERIGAN - 104 Pinecroft Circle - Rosemount, Minnesota - 55068
 Hi, everybody - remember me! I haven't sent in a Musing since last year, so I'll attempt to inform you as to what I've heard for this decade, hi. State #1 was WSP-970 B.C. @ 3/0n Jan one MM in Dec. All times here are EST as these are ancient reports. I celebrated the New Year by DXing & heard WSYH-570 N.Y. @ 1:00am 1/1. 1/4- I heard WMOB-840 Ala. r/off w/SSB o/WRAS/WOOD @ 6:15. On 1/8 KOST-1180 Mont. was way o/WRAM @ 7:05pm. 1/10- KVEP-1300 Tex. atop w/c/w @ 1:40am; KMY-1240 Mont. surprised me w/great signal o/QRN @ 2:25; KSRV-910 Tex. w/rr @ 2:20 news @ 2:38. MM 1/12- KOHL-630 Hawaii very weak w/MOR & "Coral" ID @ 1:17 For State #2. KROP-900 Ia. w/ET/rr & good signal @ 2 on 1/23. 1/24- WIRD-740 Tenn. ST w/ID @ 2:56; KCHS-740 Cal. finally @ 3:15, they must not aim much of their 30kw at USL. 1/26- KMWL-1370 Neb. TEST w/WSPD/KLIF @ 1:15. 2/9- KLOW-1570 Col. @ 7pm. 2/19- KIML-1270 Wyo. local-like @ 6:46-7pm w/MOR, NX, & Hour of Decision. KUND-1170 Col. w/c/w @ 7:30. 2/23- WTCN-963 Wis. fair w/WST @ 6:44pm. CFUN-1260 Alta. @ 7:30. 2/28- KXOK-1390 Tex. way o/WAGR w/P&B @ 1:13. MMS/2- WYOV-1000 Ala' w/ET-rr & extremely strong signal @ 1:30, some of you might have thought it was WCFL as I did at first; KOOL-960 Ariz. finally o/OWS/CFAC @ 1:30; KHDS-1100 Ariz. excellent w/o KLIF @ 1:58. 3/3- KWRP-860 Ark. r/c-TT w/no QRN @ 1:50. 3/17- CSEN-1490 Sask. @ 2am w/Southwest Radio IFs, confused me as they looped to the MW, hi. All of above DX on Realistic TRF portable, except for KOHL which was on my new A-2515. I use portable for domestic & A-2515 for foreign. Total, 779 heard from 44 states, six provinces, & 23 countries, including a few I'll report next time. I'm going to DX all Summer here & hope you all will try to get something through the QRN where you are. Good DX & 73.

RICHARD E. WOOD - U. of Hawaii - Dep't of European Languages - Honolulu - 96822
 Verifications: WDAF-610 Mo., CFOX-1470 Que., KXK-1070 Cal., for the 10kw. AGR, varied both on HD & directional patterns, KCBQ-1170 Cal. CBR-1010 Alta. & one of my most unusual veries, from KDAY Cal. nominally 1580, but for two parasitic radiations noted on 1596 & 1604. For this, they were cited by the FCC, & the CE sent me a copy of his letter to the FCC explaining what action the station had been taking to correct the situation. While local spurs and harmonics are of minor interest, I regard a verie of a pair of parasites at 2400 miles' distance as a valuable addition to my collection, although I don't know how to count it. DX is dull at present, w/no sign of long-haul trans-equatorial openings, especially to Argentina or Chile. So very few reports out, only KDMX-1350 NM B.M. for r/c 4/11, KVEP-1240 E.M. likewise, & the KPFR-1370 Ore. TEST which was successful & well-conducted. On PSA 500w, it came through quite well, at one point, 4:14am, when it was scheduled to be on PSA 500w, it sounded like a full 1 kw. They stayed on late, until at least 4:45am. Finally, a report to KINC-1140 MW. noted MW 4/20 & presumably now MSP.

NANCY GANTNER - 67 Liberty Street - Fredonia, New York - 14063
 Greetings from NRC's second girl member. I'll tell you a little about myself in this, my first Musing. As you already know, I'm 22 years old. I graduated from college last year (major - Spanish) but haven't found a job yet. I started listening to SW broadcasts about five years ago, & the BCB last December. My RX is a six band portable Sears W/Arar, and I'm (well, my dad really is) in the process of putting up a 100' inverted L antenna. Verifications received so far: v/q- KIKK WHO KLL WGB WVL WGAR WWVA & WBL. Also two v/l from KLL (one from DJ and other from SM). Currently reports are out to WFAA WCAR WMO CHEN & CHUK. I mean that's all for now. 73. (Welcome to the NRC, Nancy, and we all hope to see many Musings from you in future issues -ERC)

LETTERS PLEASE FOR THE GREATER NEW YORK/NEW JERSEY CONVENTION? WE ARE!

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BOB TALLENTINE - 51 Ajax Street - Dunedin, New Zealand

Well, it is abouttime I sent in a Musing, even though there is nothing to muse! My MW DX has been non-existent recently due to pressures of work - I am a teacher - and to the fact that it is Summer here when you are enjoying the height of your season. In the past six months I have reported & verified Vladivostok-1151. I have been DXing for three years now & am a member of NZDXRA. I enjoy being a member of NRC, too. I am interested in both MW & SW DX. New Zealanders on the whole cannot afford highly sophisticated gear, so we do it save-man style on old pre-war sets & transistors. I have done 75% of my DX on a National (Japanese) R-307 ten transistors w/a 75' longwire 25' high, NE/SW, at home. I also go to a club shack on a hill 800' high about 15 miles N of the city, where we have an old Sparton 860-X eight-valve Allwave with several serials stretched out over the fields. I have veries from all New Zealand stations, 51 Australians, seven continental USA (four states), three Hawaiians. Other countries include Philippines, China, Netherlands Antilles, Fiji, Greece, Cuba, USSR, Thailand, Papua-New Guinea, Mexico, North Vietnam, Japan, South Korea, Tonga, New Caledonia, Canada & West Germany. My best veries are VOA-Rhodes-1250 and Langenburg-1586 (WDR). I have 140 veries in 21 countries. I hope to be able to send in a more detailed Musing during our Winter. I send the friendliest of greetings from "Down Under" to all you guys "Up there". 73c. (Nice hearing from you, Ross, and pre. to let us hear about your Wintertime DX, Juring our Summer! -BRC)

FRANK WALDRON - 65 Lakeridge Drive - Matawan, New Jersey - 07747

Cleaning out the DX backlog: 3/28- WLAU-1340 a total surprise topping for three minutes before fade w/rr & Cashcall procs, etc., 12:38-12:41am. Verie said they were also heard in Akron, O. 3/29- CHLO-1570 at times rivaling CKIM w/rr & NK 12:54-1. NK 3/30- WJNH-1340 ort atop w/NI chicken rock show. CJCR-1270 also noted NI w/mx. WJST-900 2:40-3 w/NoP & a surprisingly large amount of WJST-900 HI QRM, CKCY rather weak. 4/1- WFBH-1450 BID & rr 2:42, also noted later in sporadic bursts & no good for a report. WLAU-1470 r/c-DT much! WAGM's freaky mx 2H program 3:20-3:59, when aborted by WELD's a/on-GRB. 4/3- 1:13, KFYI-900 r/c. 1:15-1:30 & KMO-1550 r/c announcing as monthly, IDK magnificently undermodulated. 2:15, WFRD-980 r/c-mx. 4/5- KMK-1330 in rather well w/WJNH milled w/rr @ 2. Good 258 CX brought in WCRB-1500 atop @ 7:30pm w/ off. Taping 1580 @ 7:44 revealed a weak s/off from WJNH. KQW-1520 surprisingly well r/cn through WJNH @ 7:53 w/rr. 4/7- WJVA-1580 good atop w/rr to 7:52 s/off. At 7:30 right after their left, WJNH-1580 was topping w/their s/off. Weird not hearing anything from WCRB at this time. 4/8- CX somewhat Auroral, so WJNH-1500 atop all w/s/off @ 7:30. SM 4/12- WILD-1090 on RS w/WBAL @ 5:05 w/goepel. KXEL was off, as apparently was ZHS-1540. WJTH was weirdly weak, & @ 5:46 WABR-1540 was atop w/s/on & into gospel program. 5:51, WJVA-1550 atop w/c/w RS. WABR-1480 ridiculous strong w/c/w same time. CHIN-1540 a/on topping QABR @ 6. WJMO-850 all alone w/goepel 6:05. 6:29, UNIS on 1560 ending US Marine Corps c/v program, then faded, antoehr UNID w/then. UNID weak s/w-1540 6:59, WJCP a/on @ 7am. NM 4/20- WCR off, not betty stuff noted by 12:10. C/v through WJNH, probably

WXGI TEST. 4/27 was the DX Nadir of all time. CX were awful to the E W N & S. Nothing heard. Veries: v/q- WLDS-1180 RAI-845 WISM-1430. v/1- WBTS-1480 WBBA-1580 CHLO-1570 WLAU-1340 WQTY-1000 WQBA-1140 WJVA-1530 WTPD-1560 KCMC-740. v/f- CXXL-1140. Unless I'm absorbed by the infamous Jersey Crud, goodbye till nexttime.

GEOFF FOX - c/o WMUM- Box 2251 - Palm Beach, Florida - 33480

Greetings all from S. Fla. where the sun never sets on a cloudy sky, & the DX never starts until the cloudy skies get here. This is mostly a note to say I'm now located in Sunny Florida. I'm in the process of getting it together at S. Fla.'s first progressive FM station. DX to note, certainly. A fine reception & good report from our own ERC who managed to snag WQXT, our AM affiliate w/500w on test for Jerry Conrad. The CE came storming in to me telling me we had gotten a citation from the FCC & why hadn't I told him I tested the XR? It was only the report from ERC! He wants to join NRC so maybe his attitude'll change. C U all in Hasbrouck Heights!

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

Gosh, I sure missed the regular issues of DX NEWS during the weeks of the many difficulties, but real happy to read that all has been smoothed out & we still once again will receive the NRC publication on its regular schedule. Congratulations, Ross Hansch, of Madison, Wis., on receiving the first CFFB-DX verification. A great catch! I do enjoy reading the regular reports of my old-time DX friends, Joe Brauner and Ernie Cooper; despite both of their terrific DX logs, they continue to log some mighty find catches. Glad to see my good friend Bill Stone of Claremont, Ont. renew his membership in the NRC. The upcoming DX Special from Station KVBR-1340 Brainerd, Minn. is anxiously awaited; it's one of only a few from Minnesota lacking from my DX Log. Here is a brief summary of my latest DX Loggings. The first four listed are as a result of the after-effects of the great Solar Eclipse of 3/7. Station KNBO-1530 New Boston, Tex. was logged 7:22-7:27pm during RS; then they faded out & in came Station KGTN-1530 Georgetown, Tex. from 7:27-7:40m, for another new logging, both on 3/10. Then on 3/11 Station KPL-1050 Lake Providence, La. was logged during RS from 7-7:15pm, for the first time. The following day on 3/12, it was Station KJUE-1280 Longview, Tex. that I logged from 7:20-7:30pm on its RS. The RS s/on of Station WDEE-1500, Detroit, was logged on 3/15 @ 5am, followed by another new catch in the State of Michigan, namely WYYY-1470, Kalamazoo, Mich. w/its RS on SM 6:20-6:45am, w/some QRM from WQHO. Verifications received of late included: WAKE CHAM KECK-DX KBHB KVPI KPLI KOE WNKY KNBO KJUE KGTN. This brings my verie count to 4,057.

STEVE KAMP - 2639 Avenida Loop - Irving, Texas - 75060

Hi y'all. I have not been doing too much CBX DX lately, most DX time is spent on SW. DX over the past two weeks or so: 4/8- WSGN Ala. @ 11pm w/rr, poor. WAVE-Ku. (Ind. XR) @ 11:41 RS, 97ok. 4/14- KHGW-630 Colo. @ 11:04pm RS. 4/15- WSLI-930 Miss. 9:10pm, RS. KWOC-930 Mo. 9:19 RS, WHIO-1290 Ohio 10:59 pm, RS. 4/18- KELI-1430 Okla. 9:52pm, RS. 4/19- KGWA--960 Okla. 9:29pm, WRBC-1300 Miss. 9:46pm RS. 4/22- 12:48am, RS (s/off 12:59) CMGN-719A Cuba; tentative on TGN-725 1-1:03 w/ID @ 1:03 to tune of "Get Me to the Church on Time. I thought I heard "R. Cultural" mentioned, but not sure. 4/25- 10:29pm, TIRS on RS. 4/26- KEOR-1110 Okla. 7:36pm RS, 7:49 KILL-610 Texas. 4/29- KXYZ-1320 Tex., 10:42pm. 5/2- KOB-770 N.M. 9:26pm on RS, strongest ever here. 5/3- 9:29-10pm, 4VE-1035 Haiti on RS. YND Nicaragua 11:33 on RS w/old rr & taped IDs. 5/4- KBRL Neb. @ 9:34pm w/rr. Veries since last Muse: v/q- KFEQ XERPM XEB WCCO WIS WGY WGN WAVE KFH KGYI KELI & R. Belize. v/c- KEOR. Note on report w/QSL sent by KEOR. Also v/1s, KWOC KSE0. Joe Fela, WUHR is the only HI station on 1600 per latest edition of HI book "Passport". Correct totals, as last one's wrong: countries 15/7, states 25/21, provinces 4/3, stations 120/65. 73s.

LARRY E. BLACK - 8501 Broadway - Indianapolis, Indiana - 46240

As I am a new member & this is my first Musing, I think I should tell you a little about myself. I just turned 16 & am a sophomore at North Central High School, & an Eagle Scout. I have been DXing since 5/69 & started w/a Hallcrafters S-120. In October I found a good buy on a used RX, a Hallcrafters SX-100 & am using that now along w/an 80' long 32' high copper wire antenna. Totals now: states 34/31, provinces 7/6, stations 259/202. The mail these last two weeks has shown some good veries: v/q from KHGW CKWE WJLQ CKCK WBSA KIX CBK CHML. V/1 from KFVS WPRE (semi-local). Now on to the DX: 2/10- KFVS-960 surprised me o/WSET @ 6:17pm w/QSB. 2/12- R. Belize-835 (should be on 830, who's correct?) @ 11pm w/bleed from WCCO/WJHS; also sent tape & report 12/c - do they verify? 2/15- KJRA-1010 finally heard o/CFRB @ 1:20am. 2/16, best MM in late months w/ideal CX. CHML-900 @ 3:04am, TTS-1480 s/off from test @ 3:20am, KJLR-630 @ 3:41am o/MPTE, KDC-1050 @ 3:55 w/some QM & WJNH s/on @ 4 halting all further chances for reception. KJBJ-1020 w/KTKZ's CG @ 2:47. 2/27- WJL-1190 WJST in well but WJNH bkeed. I enjoyed talking w/then on the phone. CKX-1150 was a real surprise (1kw) w/KOC 10kw on the same frequency! CU-150 in w/QRM from SS (XETRA?) for province N. Until next time, W. (Welcome to you also, Larry, & we hope to hear from you regularly in Musings! -BRC)



REPORTEDLY IN OPERATION

GREECE. A new 50 kw transmitter is now in operation on 926 from Zante; it relays Athens home service and is on the air 2330-0300 and 0525-1715. (Ed)

LIBYA. The second new megawatt transmitter mentioned in last issue of IDXD came on the air April 7th on 1250 kHz. (Ed)

KASHMIR. A new high-power MW station was supposed to have gone on the air on April 14th according to a broadcast from AIR; the station is at Jammu and is expected to cover an area of at least 15,000 square kilometers. No frequency known yet. (Ed)

DOMINICAN REPUBLIC. Radio Television Dominicana will be operating from May 16th on with the name "La Voz de la Junta Central Electoral" or "Cadena de Radio y Television de la Junta Central Electoral" and will be relayed by all Dominican stations in order to report the latest Election returns. No MW stations will be on the air on their own; all ID's will be the one of the government station which is already in the hands of the Central Electoral Board. Reception reports will be accepted if they mention frequency, time of program, and reception details; send reports to R. T. V. D. 's usual address at Calle Dr. Tejada Florentino 8, Santo Domingo. QSL's will be sent for all correct reception reports and they will probably be checked by Nobel Alfonso and myself. (Cesar Objio)

SYRIA. As of May 1st, Dmascus Radio began using a new channel of 1313; power and schedule unknown but believed to carry the Hebrew pgm. (Ed)

INTERNATIONAL WATERS. Radio Nordzee as expected has moved to 1385 kHz; heard testing by Ken Brownless on that channel on 4/30.

Antigua Gets 1st Private Station

ST. JOHNS, Antigua—Ivor G. T. Bird has founded Grenville Radio Ltd. here and will put the island's first private radio station on the air—ZDK—by June. Format will be about 75 percent Top 40 records and the rest will be soul music, said

Bird. The 10,000-watt station will broadcast 6 a.m.-midnight, using a playlist of about 40 records, he said.

A communications graduate of Western Michigan University, Kalamazoo, Bird's previous radio experience was with the Antigua Broadcasting System,

government owned-and-operated station. Bird will not only serve as manager but also handle programming chores for ZDK. The station will be a cartridge operation. Bird was lining up his staff last week.

In September, Bird hopes to also put an FM on the air with an easy listening format; he's trying to make arrangements now to have the music piped into local resort hotels.

For Bird, son of Antigua premier the Honorable V. C. Bird, ZDK is a dream come true. He said it took three years to get a license approved for the sta-

tion.

Ministry 'jamming' pirate broadcasts

DAILY TELEGRAPH

APR. 16

By L. MARSLAND GANDER
TV and Radio Correspondent

SIGNALS from the pirate radio ship North Sea International, anchored off Clacton, are being jammed by the Post Office. This was announced yesterday by Mr Stonehouse, Minister of Posts, who said it was being done at the request of Norway and Italy.

It marks a radical and aggressive change in the attitude of the Government towards pirate transmitters. Jamming is a costly, negative and wasteful business and hitherto the Government, urged by the BBC, has rejected it as a weapon, although there is evidence that it has been used on occasions.

RADIO JAM

By L. MARSLAND GANDER

The chief offender with jamming has always been Russia, using an unknown number of transmitters, certainly not fewer than 1,000 for a systematic campaign to swamp broadcasts from other countries. The retort of the BBC and America has always been to multiply the transmissions and vary the wavelengths.

Mr Stonehouse insisted yesterday that his action had been taken in direct response to requests from the Governments of Norway and Italy, to protect the frequencies allocated to them under international agreement. Britain is under treaty obligation to other European countries to ban pirate broadcasts on unauthorised wavelengths.

A threat of a "united effort" to jam BBC radio on Saturday, and again during Tony Blackburn's breakfast show on Monday was made last night by Robbie Duke, chairman of the Commercial Radio Network, which represents 200 pirate stations in Britain.

"We will continue to do this

during peak times and I'm certain we will be successful," he said. The GPO might be able to pick up a few of us, but it will take them a hell of a long time to track us down. We don't mind going to court."

Mr Duke's army is made up mainly of students and teenagers who operate transmitters with a very limited range. Most of them broadcast their own programmes on Sunday afternoons from moving vans to avoid detection.

Mr Edwin Bollier, one of the three Continentals behind the pirate station, said that the illegal station would first try to beat the British interference by shifting from 190 metres to 217 metres, deeper in the medium wave band and far away from shipping broadcasts.

Mr Bollier said that "if the disturbance follows us, we have three transmitters on board our ship and one could easily be modified to transmit into the English programmes."

The Ministry began broadcasting a low-powered hum on 190 metres yesterday afternoon, with the aim of upsetting the pirate station. But the station's transmissions could still be heard well if the tone control was operated.

Mr Bollier strongly denied that the transmissions on 190 metres were interfering with shipping broadcasts and suggested that the British Government was making this up. He said that the station had deliberately switched from 186 metres to avoid cutting into maritime transmissions.

The station, he said, would go off the air when its broadcasts closed at 2 a.m. today and remain off for several days while it switched frequencies.

Clandestine Station Reports It Is Broadcasting in Cuba

Special to The New York Times

MIAMI, April 24 — A weak short-wave radio station, which said it was broadcasting clandestinely from Cuba, said in a broadcast heard here today:

"The Three Musketeers are at Post 10-14. They have arrived and are inside. I have communications with them, but they are waiting for the Three Musketeers. RMS Radio Libertad Cubana, Death to Communism."

Immediately after the message, a Cuban Government short-wave station ridiculed the alleged clandestine broadcast.

Broadcasts by clandestine radio stations that said they were in Cuba have been heard in Miami in the past. But judging by the strength of their signals, the broadcasts do not appear to have originated in the island.

In recent days, there have been rumors in Miami that in addition to a small group of exiles that Havana announced landed in eastern Cuba April 17, another group landed undetected on the island.

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



REPORT FROM THE PACIFIC

Conditions in Hawaii March 23 - April 25.

General: Mixed conditions, but generally quite wintry in orientation. The startlingly good reception of Alaska, noted from the beginning of March on, continued until interrupted by a reversion, on April 22, to the auroral cx which were last noted on and just after March 9. By April 25, aurora apparently had finished.

- 3/23: Alaska remarkable: KICY excellent, KFQD semi-local, KFAR very good, KENI excellent, KINY very good, fighting CKLW. Northerly orientation: CHUB over XERF. CFRB almost level strength with adjacent, closer clear channels. Even seldom-heard KSRM good. CFOX fair. An excellent night, then, to all N.A., but Tahiti also very good.
- 3/24: Continued excellent to N.A. WABC almost level KOB. WJR excellent in KGU gap. KFQD, KICY exc., KFAR v.g.; E.C., WKYC, WHAM exc., WCAU right thru local K200.
- 3/25: still very good, KKIS thru local KTRG, etc.
- 3/2 WCBs good, 4 NZ stations noted, N.A. good but not excellent.
- 3/27: A definite decline in cx. to all areas; KDKA, WBZ weak; G&E poor, no NZ.
- 3/28: Much improved again, and very northerly cx.: Ore. and Wash. over Cal. on many fq's, KAST over KEEN-1370, KMWX over KDON-1460, etc. And a new B.C. logging, CHQB dominating 1280. WHAM, WCBs very good, KYW quite good thru CFCN (classic sign of good cx.), KDKA, WLS excellent. Yesterday, KRLD in the clear. Today, rivalled by KWJJ. KFQD Alaska quite good. NZ-660 back.
- 3/29: Excellent. KFQD, KICY exc., KJNP (not often hrd) quite good, KFAR good. WCAU etc. excellent, WRVA good. Clear opening to the Tidewater area: WCVU-Va. 1350 new. WDAF-Mo. 610 almost level KFRC, new. Several Cuba, several NZ, a few Aussies. XELG-680 new.
- 4/1: Excellent to all areas. KYW actually level CFCN, CFRB good, WKYC exc., WCBs exc., WLW very good (seldom so, here), WSB very good. Good opening to Fla./Cuba. WRIZ-1550 Fla. good, first time this year, WTAI good. Tonga, Australia.
- 4/6: Excellent. My 41st. state logged, N.C.: WFGW-1010. Good to S. Pacific: Noumea-670 new. NZ, Aust., 2RE-1560. Alaska: KICY exc., KFQD very good. Deep, deep into Australia for first time this year: 5AN-890 best from Aust. thru night. Australia on low freq. end: 3AR-620.
- 4/7: Similar to 4/6. WQXR good. Australia/NZ still good.
- 4/8: E.C. very good; WBZ, WHAM, WKYC. NZ-660 very good.
- 4/9: Excellent to many areas, including high latitudes. CBXQ-540 B.C. 40w. good, 100% readable and recorded. NZ-800 almost level PJB. Alaska: KFQD, KENI v.g., KFAR g.
- 4/10-13: Northerly areas dominant. Several Alaskans. WINQ-1010 Fla. first time this year. KELA-1470 Wash. level KXOA. KAST over KEEN, etc. KICY excellent. WQXR excellent. WSPD-1370 O. new. WMEG-920 quite good.
- 4/14: Still excellent. KSRM-920 Alaska very good, KFQD almost semi-local, KFRB level CUVI. WABC away over KOB, best yet. KYW good. KBYR-1270 Alas., not often heard lately. 3LO-770 good. WCBs-880 easily listenable even w/KALM-870.
- 4/16: Declining cx. Average.
- 4/19: Northerly and southerly propagation favored: KENI-550 Alas., 4QD, 2RE. N.A. only fair, below average.
- 4/20: Southerly cx., Colombia good; WMEG Fla., WCLS Ga. good. Rest of N.A. poor.
- 4/22: Extremely violent auroral cx. S. Pacific way, way above average, Tonga-1020 up to S-9, armchair listening quality; KDKA hardly a trace. (N.b.: ZCO not just revealed by absence of KDKA, but far above average in strength). Fiji, NZ very good from mid-evening. Best of all, first opening this year to Rio de la Plata: LR3-950, CX14-810 + others unid.-1030, 1070, 1230. CX20-930 new.
- 4/23-25: Aurora still, Cook Is-600 reported, more DSA. 4/25: slackening cfr. REW.

Times in this edition are Eastern Standard. To review reporting format for submissions to Monitor Reports, please use one side of the sheet, 8-1/2 x 11 paper is preferred. Since we cut items into strips and then "stack" them vertically, single-spacing with a small space between items (for cutting) has been found by your Editor to work best. Your cooperation with this request is appreciated. We are continuing using EST until and if a different policy is decided upon, and I am assuming that all submissions this issue are so stated by the reporter

- Receptions: ---
- 540 Nicaragua. Radio Corporacion, Managua, hrd w/excellent signal 4/30 at 0055. S/off at 0103; said would return at 0500 local time, which is CST. (Brubaker, Fla.)
- 567 unID. LA here, SS, seemed to loop Cuba, Venezuela area. Had mx and talk format; too weak to ID 0006 4/22. (Edmunds, N.J.)
- 570 Dominican Rep. To all concerned, the SS hrd here 12/29 and 2/23, s/on at 0400, is R. Rumbos YVLX Caracas, operating with 200 kW. (Objio, D.R.)
- 580 Puerto Rico. WKAQ hrd here with small pocket radio 5/3 at 0204. They're always strong here, especially during the early AM hours. (Brubaker, Fla.)
- 590 Nicaragua. Radio 590 hrd 5/3 from 0129 to 0142 with fair signals. What is their power? (Brubaker, Fla.)
- 600 Cook Islands. ZKLZC, Rarotonga. Hrd 4/23 with Maori welcome song 0255; fair, then CJOR took over. First evening reception here. (Wood, Hawaii)
- 620 Australia. 3AR Melbourne, Vic. 4/6 0620 pgm of madrigals. Good, one of best Aussie sigs on this good Aussie night. (Wood, Hawaii)
- 625 Ecuador. unID, HC--, likely one of 2 possibilities mentioned in FBIS. Low, tinny audio, but caught several mentions of "Bolivar", part of the slogan of 2 stns. (Schatz, Fla.) (Latest FBIS, 1 Sep 69 issue, lists no less than 4 HC's here, 2 of which are "R. Proclama de Bolivar" in Asuncion and "L.V. de Bolivar" in Guaranda. Note, tho, both show call as HCFM6 and power listed for both as 450 w. so could there be an overlap of some sort here? In other words, maybe just 1 stn here? -Ed.)
- 650 Hawaii. KORL Honolulu now has telephone talk show 0500-1000. MoR instrumentals the rest of time, as before. (Wood, Hawaii) (Essentially no change as far as NA DXers are concerned-ed.)
- 650 Ecuador. HCRM4, Radio Vision de Manta in here with fair s-5 signal 3/28 at 2021-2036. WSN wasn't hrd for some reason. Hrd with native mx, SS talk and time checks, and SS ads. At 2030, a nice SS ID as "desde la ciudad de Manta, Republica del Ecuador, transmite Radio Vision, 650 kilociclos, onda normal ... megaciclos, frecuencia modulada ..." then pips, a coo-coo clock, TC, ad. An urgent message at 2031, then LA mx, ads. Lost at 2036 when WSM began fading in. (Steve Kamp, Texas.) (New FBIS sez 2000 watts -Ed)
- 655 Ecuador. Radio Carrousel, Guayaquil runs NSP with lively promos and interrupted music. A good signal in Fla. after YSS s/off. (Schatz, Fla.)
- 660 Mexico. XERPM good every night here, hrd 2000-2015 3/28 with many ads, a little rock mx. All in SS except for an ad for tequilla in Eng. (Kamp, TX)
- ** 670 New Caledonia. ORTF Noumea. The new 20kw xmtr, replacing 1420 is here! Not on 730, as earlier planned, nor on 625 as is listed in WRTVH'70. Was noted for the first time 0336 4/6 with typical ORTF pgmg, i.e., historical memoirs and maxims by French philosophers. Weak to fair with WMAQ off and Cuban looped. Reported, but will not be a second Gilbert-and-Ellice, as is not comparable in strength nor in choice of freq. Suggest looking for this one only when at least 6 Aussies are coming in fairly well. (Wood, HI) (Well...that lets me out, hi. New Caledonia is roughly 1000 miles NE of Australia's Barrier Reef; is noted for nickel mining. Wow, hi -Ed.)
- 675 Nicaragua. YND, Union Radio, Managua fair 5/3 2333-2350 w/old rock mx and taped IDs between selections. QRM from 680 channel. (Kamp, Texas)

- 680 Mexico. XELG, Radio L-G, León, Gto. running AN 3/30, frequent IDs as "L-G" and "La Grande de León", etc. Very good; must've gone NSP. (Wood, Hawaii)
- 719a Cuba. Radio Rebelde/ L.V. de Cuba definitely here from 720. No het noted days, just at night. (Schatz, Fla.) Radio Rebelde, Colon good 4/22 0048-0059 s/off. Light mx, "Noticiero Radio Rebelde", ID, s/off ancts, anthem. Came on again 0100 with L.V. de Cuba. easily separable from WGN. (Kamp, Tx)
- 785 Guatemala? Perhaps TGN here 4/22 0100-0103 loss; ID at 0103 sung to tune of "Get me to the church on time" and thought I hrd "Radio Cultural" mentioned by ancr but not sure. Either lost or s/off 0103. (Kamp, Tx) (as is, Surinam. SRS Paramaribo in here MM 3/30 with fair but weak s-3 signal. Oriental mx, Indonesian talk. Hrd 0416-0430 when ID then lost to WGN slop.
- 730 Dominican Rep. HIZ hrd with s/off anct on 5/3 at 0114, then NA, carrier off at 0116. Fair signal, have never noted them on this late before. (Bill Brubaker, Fla.)
- 746 Holland. Hilversum was noted on late with coverage of Apollo 13 with a fair signal. (Dangerfield, Pa.)
- 750 Venezuela. YVKS has become a loud regular in Miami evenings. (Schatz, Fla)
- 752 unID LA. Good signal evenings with loop pointing south. Haven't IDed yet, as have been too busy on other f's (freqs?) (Schatz, Fla)
- 760 Panama. La Voz del Istmo, HOKO hrd s/off at 2314 with NA on 3/26, hrd for the first time. (César Objio, Dom. Rep.)
- 765 El Salvador. YSKL noted here ex-760, IDs by callsign, // 770. (Schatz)
- 760 New Zealand. (sri, out of sequence-ed.) Auckland IYA tentatively the one here with accented EG 0535-0550 MM 4/20 o/u a fading WJR and another EE stn, presumed to be KGU. Too much QRM to be sure but looped right for NZ, signal was rather weak and fady. (Marv Garber, Neb.)
- 770 Australia. 3LO, Melbourne, Vic. undoubtedly the one with 6 pips exactly at 0600 MM 4/20. Signal faded for a few minutes and at 0603, male ancr ancd a rock tune. Rock mx ctd until f/out 0625. Tape sent. Surprised to note them with rock mx. New country. (Garber, Neb.)
- 780 New Zealand. 4YA Dunedin probably the one with opera at various times from 0435-0520 MM 4/20. The opera was similar to the one LYC had earlier but was definitely not // to LYC. There was quite a bit of QRM from Barbados, ZBVI and a number of SS. Just the opera was hrd; no definite ID, unfortunately. (Garber, Neb.) (780 certainly is a good DX freq, isn't it? -Ed.)
- 780 Br. V.I. Tentatively ZBVI hrd fair 0505-0513 here MM 3/30. Ad for a clothing store in St. Thomas at 0505 and 0506, man gave birthday greetings to someone in St. Thomas. He kept on talking but I couldn't read him. Lost at 0513. Was all in EE. (Steve Kamp, Texas) (sounds like them, Steve)
- 790 Venezuela. Radio Barquisimeto, YVMR with 50kW will be AN after 4/1 as announced. (Objio, D.R.)
- 810 Uruguay. CX-14, El Espectador, Montevideo. Hrd 0415 4/22 with talk on Uruguay; very good, KGO looped. (Wood, Hawaii) R.El Espectador, CX-14 hrd with many ads at 2235 on 3/26. (Objio, D.R.)
- 810 Venezuela. To Bob Foxworth: Your note (?-Ed.) on this item in 3/7 MR is this: Radio Ochocientos Diez means Radio 810 but they were always on 820, not on 810 as they announced. The slogan of the station comes from the frequency which they were not using. (Objio) (Yes, I figured that was the case, César. However, it still doesn't seem to be completely logical, hi-Ed)
- 824 Guatemala. Radio Internacional, TGTO is here hetting TIOS-825; plays much Mexican style mx. (Schatz, Fla)
- 830 Dominican Rep. HIJB a regular here on Fri., Sat. and Sunday mornings, when they are on late. Very strong signals, lively music and IDs similar to WKAQ's. (Brubaker, Fla.) Radio HIJB, Santo Domingo is operating with 10 kW since 4/1. To Kilroy-Conrad-Waldron, your stn hrd here on 2/22 is this one. They are AN on weekends - that is, they s/on at 0500 Fridays until Monday evening at 2400 s/off and on the other days of the week they operate 0500-2400.
- 840 Colombia. HJBI, Ondas del Caribe, Santa Maria, fair here MM 3/30 with a s-5 signal. 0251-0318 LA mx, SS TCs and a few IDs. Was under WHAS OC until 0302 when WHAS cut it. (Kamp, Tx.)
- ** 860 Cuba. A new stn and apparently a new net also. Hrd 0100 4/20. Net seems to be Cadena Camaguayana, the 860 outley is CMJY in Ciego de Avila with a slogan "Cadena Raventes" or "Reventes" and if the latter, would mean the "worker's network" or "proletarian network". Net includes: CMJX-1230 Radio Moron, CMJQ-1300 Radio Nuevitas, CMCA-830 R. Cordon de la Habana, CMJB-880 Radio Revolucionario de 7 de ano (??) and CMJY. All but 830 are in Camagney province. (Russ Edmunds, N.J.) (very interesting, Russ -Ed. Dominican Rep. Radio Clarín, HI--, Santo Domingo, 10 kW, 0500-0100 is owned by Difusora Hemisferio, S.A. Xmr and eqpt are Wilkinson. The stn director is Salomón Sanz. (Objio, D.R.) Radio Clarín, Santo Domingo, first noted with Cesar on 5/1 when he was over at my house. Hrd then with nx and spots from 2230 to 2240. Have noted them since with especially strong signals around 0100. They s/off at 0100 EST so some of you northerners should be able to hear them. (Brubaker, Fla.) (ERC got 'em-Ed.) Radio Clarin vies with HRU evenings, and dominant when AN. Much merengue mx. (Schatz, Fla.)
- ** 870 Cuba. Radio Internacional, CMBL is here from 860 kHz. (Schatz)
- 880 Guatemala. TGJ, Radio Nuevo Mundo dominating channel 3/28 0005-0027. Vocal mx, many IDs in SS, few ads. (Kamp, Tx.)
- 880 New Zealand. LYC Auckland. I nearly fell off my chair when I heard "the time is nine-ten" then a mention of the "Y C programmes" at 0410 on MM 4/20. This anct was between operas. The signal peaked s-5 at 0420 with opera mx. There was no QRM, due to a clear channel until an SS s/on at 0457. Reported. (Garber, Neb.) (890 item from Wood, Haw.)
- 890 Australia. 5AN, Adelaide, S.A. 4/6 reached best strength of all Aussies during BBC-type talk 0525. Not on 790 as erroneously printed in WRTVH '70
- ** 900 Nicaragua. Radio Tiempo, Managua hrd fair MM 3/30 0613-0625. Have SS TCs by man every minute, along with vocal mx. SS ID between selections. One went like this: "exacta, exacta, minuto a minuto, Radio Tiempo en Managua, Nicaragua" given by man. Lost 0625. WRTVH and FBIS list as "Alma Nica" so perhaps new ownership, format change or something. (Kamp, Texas)
- 905 El Salvador. "Radiopolis" still here, IDing itself and 2 relays. Good signal in Miami. (Schatz, Fla.)
- ** 915 Colombia. HJAE, Emisoras Fuentes hrd here with ER 0106 and on, 4/20. Previously rptd on 922 but now here. (Edmunds, N.J.)
- 920 Alaska. KSRM, Soldatna, 3/23 0304 s/off, no Alaska's Flag or SSB this time; an excellent night for Alaskans. (Wood, Hawaii who spells it soldatna)
- 930 Uruguay. CX-20, Radio Monte Carlo, Montevideo. 4/22 0420 with local spots, fair but unreportable with KHJ partly looped. (Wood, Hawaii)
- 950 Argentina. LR-3, Radio Belgrano, Buenos Aires. 4/22 0400 many IDs, local news, easily reported. First Argentine of the season, other possible DSA's (Deep So Americans -Ed.) on 1030-1070-1230. (Wood, Hawaii)
- ** 950 Mexico. XEGM, Frecuencia de Oro, Tijuana, B.C. Now much louder than before, and anncg 10,000 watts which must be in use fulltime. Announcing as transmitting "desde sus modernos estudios en Hollywood, California, cubriendo siete condados del Sur de California", and avoiding all reference to Tijuana. Can any Los Angeles members provide their Hollywood address? (Wood)
- 960 Cuba. CM-- believed to be in Sancti-Spiritus, carries "Radio Progreso" for appx 19 hrs and "Reloj Nacional" in the early AM. Good day and night in Miami. (Schatz, Fla.)
- 962 Tunisia. Tunis noted with EE sked weekdays 1030-1130; talk show, news, and rock mx request shows. Followed by pgm in French. Easily hrd days from Malta. My '69 WRTVH shows sked in Italian and Arabic. (Bowab, Mediterranean)
- 965 unID. Sporting event, presumed to be soccer, hrd 0025-0035 4/18, teams perhaps Chinand--a (pse print odd names-tnx-Ed.) and Monterire but not sure. (item continued next page)

- Had thought I had a YNLU ID as of 2310 4/23 but JKC advises that YNLU has not left 954 despite Page T's and my thinking this was it, as strength of the 965 item was what we expected from YNLU. So, this is either a tentative HCP of an UNID LA, as it now appears. (Edmunds, N.J.)
- 975 Costa Rica. TIRB, Atenas, San José fair 4/25 2229-2244 with light mx, taped IDs between selections. (Kamp, Tx)
- 980 Venezuela. To Ernie Cooper: There is no Radio Servicio right now, it is "Exitos Novocientos Ochenta" (Exitos 980) (Objio, D.R.)
- 990 Hawaii. KTRG, Honolulu. Delete The World Tomorrow on this station from recent NBC list. Public hearings on the renewal of this sta's license, or otherwise, will be held June 29. (Wood, Hawaii)
- 1000 New Zealand. LED, Tauranga. 4/23 0300 NZ talk, fair. (Wood)
- 1010 Cuba. "CMBS, Reloj Musical Nacional", Havana, IDed at 2331 on 3/27 and had a classical mx pgn. (Objio)
- 1019 Cuba. CMAC, San Cristobal, "Radio Guanabacoa" relays CMAS. (Schatz)
- 1020 Tonga. ZOO, Nuku'alofa. 4/22 0330 Western mx., spots for airlines in Eng and Tongan. Arrchair listening quality, first time this year, hardly a trace of KDKA. (Wood, Hawaii)
- 1025 UNID. What I believe was Radio Fides in C.Rica, hrd 3/27 2145-2201 with instr. mx, mostly organ. SS talk by man between selections. ID at 2200. Sounded like "Radio Fides" but garbled slightly. (Kamp, Tx)
- 1035 UNID. Station here playing U.S. pop mx of 1960 vintage non-stop made me think I had Lisbon 0030-0100 MM 3/30. Other TAs were hrd, e.g. 1205 and signal had deep fades. But to my surprise, at 0100 a man came on and s/off the station. No anthem. Man was in Spanish and gave ID something like "Emisora OMV". Have seen nothing reported here. Haiti is off well before this time; don't believe the Panamanian is on this late. (Hoogerbeide, Mich)
- 1070 New Zealand. LES, Auckland. 4/6 0600 stock market report, CPAX partly looped. (Wood, Hawaii)
- ** 1078 Cuba. CMEN, Nueva Gerona, Isla de la Juventud (Isle of youth, former Pines) station "Radio Caribe" is now up here following a brief stay on 1031 kHz. Announcers are kids. (Schatz, Fla.) (Cuban youth go to this island to farm and learn party doctrine-Ed.) This sta noted 0006 4/20, strength seemed to put it as 500 watts or 1 kW. (Edmunds, N.J.)
- 1090 Mexico. XERB Rosarito noted on AN NSP MM 4/6 Reverend Ike, etc. (Wood)
- 1090 Hawaii. KHAI Honolulu target date for return to air is May 15. (Wood, Haw.)
- 1140 Mexico. XHRM Monterrey hrd well 3/25 2352-0016. Had light mx pgn called "La Hora Bohemia" with taped IDs in SS. One was: "Radio M-R, con la música cello y corazon". (Kamp, Tx)
- 1145 Honduras. HRQN, La Voz del Atlantico hrd well 2258 4/23. Am still a bit dubious about that listed power of 500 watts, tho. (RJE, NJ) (new FBIS: 600m)
- 1151 England. BBC Stagshaw hrd w/tremendous signal, 3/23 at 0100. Overriding domestic on 1150 during news pgn. Only other BBC outlets hrd were very weak signals on 1088 and 1295. (Kilroy, D.C.)
- 1155 El Salvador. YSCP Ondas Orientales hrd with nonstop mx 0010-0020 4/18 with signals s-8 to 9. (Edmunds, NJ) YSCP good in Miami evenings, IDing mostly by call. (Schatz, Fla)
- 1159 Cuba. Stn here, CMA-, in Pinar del Rio, weak days but good, and betty, nights and not IDed yet. (Schatz)
- 1160 Colombia. EURE, Ondas de Ciénaga Grande is the dominant station in Miami evenings. RCN affiliate; s/off 2300. (Schatz) Ondas de Ciénaga Grande, Ciénaga hrd for first time 2130 3/26 IDing. (Objio, D.R.)
- 1160 Colombia. BJCK Bogotá hrd 4/18 0000 while on fone to Page, hrd what sounded like an ID so played tape to him and he informed me I'd just taped the call, freq, location and power, all assted. s-9 sigs. (Edmunds, NJ)
- ** 1170 Venezuela. Radio Acarigua, YWV hrd IDing here at 2030 3/12 ex-1160 (Objio)
- ** 1170 Honduras. La Voz de Centro America, San Pedro Sula, first noted on this freq 2009-2242 4/30. Good signal, many spots, IDs. Previously verified them on 1190. (Brubaker, Fla.)

- ** 1170 Honduras. HRVW La Voz de Centroamerica with good clear IDs after every record and with excellent signals 0021 4/22, HR #2. (Edmunds, NJ)
HRVW is here and loud evenings. (Schatz, Fla.) (Note RJE got them on a split freq 8 days before Brubaker got them on 1170, possibly they've settled down on 1170 by now. Can anyone else supply later loggings? -Ed.)
- 1174a El Salvador. YSCB La Voz del Pacifico, hetting TICA but quite strong at 0000 4/16. Hrd again 2312 4/17, with better signal. (Edmunds, NJ)
- 1180 Brazil. Radio Globo, PHEJ, Rio de Janeiro hrd for the first time with s/off at 2306 on 3/26 with NA. (Objio, D.R.)
- 1187 Guatemala. TOT, Radio Sonora "La Sonora" often overcomes 1190 eves. (Schatz)
- 1192 Cuba. CMJP, Ciego de Ávila, "Cadena Casagleyana" is AN. (Schatz, Fla)
- 1203 Costa Rica. "Radio Casino" Puerto Limon in Eng with British Colonial format past 0000 EST; don't confuse with Freetown. (Schatz, Fla.)
- 1205 UNID SS. LA with strong carrier but weak audio and a bad bet with TIQ, hrd 2320 4/17. (Edmunds, N.J.)
- ** 1214 Malta. Radio Malta has been monitored extensively: Appears to be totally devoid of talk - no IDs or spots hrd - just continuous mx (rock instrumentals and vocals by artists other than the original ones). Audio quality is poor. Signal weak and bothered by bet (which is present in daytime and stronger nights) on the heavily-populated east end of the island; signal much stronger on the west end. (Bovab, Mediterranean)
(Hmm .. could the bet possibly be from Tirana? Are they on the air days and if so, could they reach that far? Or is Malta itself off freq?? -ed.)
- 1220 Mexico. XEB fair 3/26 0214-0227 with LA mx, SS talk. (Kamp, Tx)
- 1229.5 Colombia. HJFP, Radio Neiva. Noted 3/23 carrying Caracol's AN service, easily separable from 1230, at 0415. (Wood, Hawaii)
- ** 1250 Asiatic RFSR. Extremely surprised to note 4/22 that Khabarovsk, here, has (at least in the 0400-0500 segment) been switched from Radio Moscow Chinese Svcs to Japanese. Is // 1475. Politically significant, perhaps a connection with Expo-70? Subsequent monitoring indicates this change made throughout schedule. No more Chinese. (Wood, Hawaii)
- ** 1250 Libya. New station here observed for first time with nightprogram from 1900 on, on 4/10. Also noted on 674 and 1124 but this freq best. (Bengt Ericson, Sweden) This station (Alex lists it as 1251 however, 1250 is the standard assignment-ed.) noted, believe freq correct. This is hrd stronger in Malta days than 1124, 1052 or 674 and seems to be // to Tripoli-1052 and to 1124 much of the time. (Bovab, USS Forrestal, Medit'm)
- 1255 Costa Rica. TIRM must be the one here and while it's been listed as R. Monumental and Radio Columbia Canal 4, I think it's the former. Hrd at 2342 on 4/17. (Edmunds, nr Convention City NJ)
- 1255 Colombia. La Voz del Cesar, Valledupar, ID at 2213 on 3/22, pop mx pgn, and hrd for the first time by me. (Objio, D.R.)
- 1286 Czechoslovakia. Prague hrd with s-9 signals and excellent audio in lang 2345 4/15 after Page Taylor asked me to check het there for SABC. (Edmunds) (Glenn Jacobs advises he hrd trace of SABC here, in March -ed.)
- 1305 Cuba. "Reloj Nacional", AN, ID at 0030 3/30, drifting but don't know from where, closer freqs are 1280 and 1330 for Reloj Nacional. (Objio) UNID Reloj Nacional here (Roe lists as 1306-ed.) is likely CMED in Bayamo. Not hrd in daytime. (Schatz, Fla.)
- 1320 Puerto Rico. WUNO, Radio Uno hrd with male vocals, infrequent IDs, 2345 4/12. Well under 2 or 3 domestics, static, but an apparent commercial and an ID snuck through. (Edmunds, NJ)
- ** 1372 Colombia. Radio Guaimaral, HJBD, Cucuta, hrd here IDing at 1956 on 3/7 with Colombian pop mx and ads, off freq., deep fades and intermittent strong signal. (Objio, D.Rep.)
- 1394 Albania. Tirana hrd in Eng with news 1530-1545 4/27 (per WHTVH asked) and much QRM from other stns on evening RS. Female newscaster. (Bovab, Malta)
- 1425 Malta. British Forces Boat Svcs s/on for evening pgn at 1100, preceded by several minutes of tone test. (Item continued next page)

IDXD MONITOR REPORTS - VERIFICATION SECTION

- BFBS hrd several times in April, and always announces as 1430. Can't tell exact freq from my portable but is easily separated from Luxembourg-1439 in spite of local strength and some slopover. (Bowab, Malta)
- 1440 Dominican Rep. Radio Ozama, HIAK, Santo Domingo, Director: Julio Leonor Machuca. Address: Apto 1063. Uses 1 kw, working time not definite. (Objio)
- 1454 Libya. This stn s/on for evening sked (hrd 4/28-29-30) at 1100 in Eng. At least first hour of sked in Eng, mostly news and talk pgms. ID at s/on is Broadcast Service of Libyan Arab Republic, 1454 kc, 206 meters. Not sure of freq but is definitely to right, on the dial, of Sicilian on 1448. (Bowab, Malta) (Listed as Benghazi, new FBIS shows no power -ed.)
- 1463 Costa Rica. TIDVC, Radio Monumental ID at 0030 4/22 in talk pgm. (Edmunds)
- 1465 unID listed here in 3/7 IDXD is Radio Palonegro, HJTZ, Bucaramanga, see the 2/7 IDXD. (Objio, D.R.)
- 1470 Fiji. F.B.C., Rakiraki 0315 4/22 Hindi talk, better than KXOA. (Wood, Haw)
- 1476 unID. LA SS here, loops Central America, but audio too weak for copy, 0052 4/18. (Edmunds, NJ)
- 1505 Anguilla. The Valley 3/29 1915 with ID and FOUR tone IS. Finally got a tape on this one. The woman anncr between religious pgms was poorly modulated compared to the rest of the programs. (Conrad, Fla.) (Interesting piece on this island in Travel section of NY Sunday Times May 10, 1970. Also in last issue of Scanlan's Monthly. Quite interesting. -Ed.)
- 1538 West Germany. Mainflingen giving ZNS quite a battle 3/29 2330 with a similar pgm to 1586-1602. Stronger than any other TA but not as clear as ORTF on 1554. (Conrad, Fla.)
- 1546 Malta. BBC Relay with Arabic at 2315 to past 2345 3/29 with much 1550 splash. Very strong and modulation unusually high for a TA. No ID at 2330 at all - unusual for the BBC! (Conrad, Fla.)
- 1554 France. Nice hrd 2030 3/26, French speaking, reception wasn't very good and I could only tell that it was French I heard. (Objio, D.R.)
- 1555.6 unID. This may belong here or maybe domestic. EE station s/off at 2245 3/19. Calls could be W--- or may have W.I.B.S. Is there a WIBS station here now? Ancr sounded quite British in accent. Have a tape. (Conrad, Fla.)
- 1560 Australia. 2RE, Taree, N.S.W. 4/7 0405 local spots. Although low-powered, with its clear channel at the time, and high frequency, this could be the best bet for Australia on the mainland.
- 1578 Int. Waters. Radio Nordsee Int. hrd on the air for the first time 4/10 1730 w/good strength and much better modulation. S/off at 2000. Sked at the time 2330-2000 EST. (Ericson, Sweden)(status of this stn keeps changing
- 1586 W. Germany. This powerhouse along with 1602 were in // 2345 3/29. I've thought they were on AN pgm for some time but not enough signal to be sure before. 1586 stronger most of the time but 1602 had less fading. They split at 2355 with IS on each, then separate pgm. (Conrad, Fla.)
- 1594 Libya. AFRTS Wheelus AFB, Tripoli, still on the air as of 5/1 and is strong on Malta in daytime. I understand Wheelus is to close completely by June. (Bowab, Mediteranean)
- 1597a Dominican Republic. Radio Cultural, "La Voz de las Fuerzas Armadas" was first hrd 4/30 from 2032 EDT to 2201 s/off. Signal was good and, at times local-like. Pgm called "Instrumentales" started at 2100 (again, EDT) and s/off mentioned the stn's call letters HIFA and AM, FM and SW freqs. César says they have 1 kw. (Brubaker, Fla.)
- 1610 Int. Waters. R.N.I. hrd here, on their old freq, at 0035 3/23, ancr in likely Dutch. Sounded like he was reading some letters, may have been reception reports. (Kilroy, D.C.)

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 Symbols: The small letter "a" next to the freq indicates "approximate" and a letter "v" indicates "variable". An asterisk next to the freq indicates a new item, change or special interest.

- 575 West Germany. SDR Stuttgart-Muhlacker sent letter in broken Eng for report of 1/8. While being rather vague, it does state that they were rather surprised that I could hear them in the States. Referring to my tape, they state, "We have heard one part of our program with very modulation. Of course we have heard some fading". Also sent several booklets and returned my tape recorded with German music. Signer was Berner, address as in WRTVH. (Merriman, Va.)
- 655 El Salvador. YSS, card, airmail in 18 days. Had sent mint stamps. (Kamp)
- 680 Mexico. XELG, Radio L.G., León, Gto. Specific v/1 from Alejandro Díaz Romo, Dirección de Producción at network HQ, Radio Comerciales, Guadalajara, Jal. Sr. Díaz says that my report on XELG is not only the most distant, but, incredibly, the very first ever received from outside Mexico. Hard to believe. (Wood, Hawaii) (first report he is aware of, maybe?-ed.)
- 800 N.W.I. PJB, card in 11 days; 1 IRC sent to them. (Kamp, Tx)
- 800 Mexico. XELO, big card and picture of "Record Roost Gang", 38 days. (Kamp)
- 834 Br. Hond. R. Belize, usual v/q in appx 45 days, specifying date only. Came seammil, but had sent only seammil return postage. (Kamp)
- 844 Gilbert & Ellice Is. VSZL sent specific letter for my second report of 3/1. Letter states in part, "...this time there is no doubt at all. This was definitely our transmissions on 844kHz for 1st March 1970. The native song you recorded before the National Anthem is a local song of farewell which we play every evening" and they also mentioned that the xmtr had been off the air since 3/5 due to a burnt out transformer. Mr Robins said they expected a replacement shortly; as his letter was dated 3/14 they should be back on. S/off varies from 0415 to 0430. Country No. 79 here and probably my best catch and verie. In my report I had mentioned that the the carrier remained on the air almost 20 minutes after pgmg ended. The letter states that the xmtr is located on a different island than the studios and that the xmtr is turned off by a timer which is set for shortly after 0430. On the date I heard them it didn't go off until 0437. New studios are being built at the xmtr location and will be completed shortly and they will then be installing a new remote control unit. (Merriman, Va)
- 919 Colombia. HJAF, Em. Fuentes, Cartagena. Long, 2-page but vague v/1 from Nelson Fuentes Martínez, Gerente. Enclosed a large pennant and stamps from Colombia and Panama. (Wood, Hawaii)
- 925 Neth. Ant. Radio Victoria, PJA-6 Aruba. Further to my previously reported letter from Paul J. Peitsch, another, very specific v/1 has arrived, from Robert Catteau, CE. Mine is most distant report; others have come from Scandinavia and all over the U.S. mainland. (Wood, Hawaii)
- 940 Venezuela. Radio Punto Fijo veried by card from Rumbos HQ in Caracas. Same as reported by others. My report was sent to Caracas, not direct to the station. (Wood, Hawaii)
- 1040 Colombia. Verie letter in from "Radio Tropical", 1040 Barranquilla for a report of 2/8/70. V/s is Willy Vargas Gomez, Gerente. Address is Carrera 48 No 72-12, Barranquilla. Member of Primera Cadena Radial Colombianas, S.A. This is So America verie #65 from California. (Hank Wilkinson, Cal)
- 1130 Hawaii. Verie letter in from KLEI "Radio K-LEI", Kailua for a report of last November. V/s is Les Silva, Announcer. Very nice stationery. Verie #44 from Oceania. (Wilkinson, Cal.)
- 1240 Dominican Rep. Specific v/1 from La Voz de la Libertad, Puerta Plata. The signer, German Camarena, Director, listed the names of his staff and followed up the letter with a beautiful New Year's Card, promoting the resort of Long Beach, where HIAU's studios are located. Power is 500 watts. (Bill Brubaker, Miami Fla.)
- 1393 Colombia. HJTJ, La Voz de Cereté, Cereté. Pleasant, specific v/1 from Moisés Pianetta Pérez; enclosed large, multicolored pennant. Did not admit discrepancy from nominal 1390. (Wood, Hawaii)

(more)

- 1435 Netherlands Antilles. Radio Kelkboom, PJA-5, Oranjestad, Aruba verified with card showing their control room. Believe was written in Papiamentu, "Esaki ta pa verifica recepcion di ..." very specific, power listed as 1000 watts but signer illegible. (Brubaker, Fla.) (as is next item, below)
- 1500 Netherlands Antilles. A non-verie Christmas-New Year card sent from Radio Hoyer. Listed freqs as follows. Radio Hoyer I (PJ07) 1010 and Radio Hoyer 2 on 1500, both on Curaçao along with Radio Hoyer 3, 1385 kHz on island of Bonaire. Head office listed as Julianaplein 21, Willemstad, Curaçao.
- 1562 Switzerland. SBC sent v/q for 1/25/69 tape and report, franked airmail on 2/16/69 and arrived 3/7/70 in mutilated condition, torn badly. Signer is J. Chisholm, no technical info. Sez my tape was not returned since it was severely damaged in the post (their words). Ha-they ought to see the verie. (Starr, Ohio)
- 1570 Mexico. XERF, card in 8 days surface mail; SASE sent. (Kamp)
- Ops, here are some more I let get out of sequence-had to happen sooner or later. I must've had them filed under "K" for "klutz"....
- 1115 Italy. RAI sent the usual antenna drawing card in about 3 and a half months by sea mail for 1115 kHz (Bari). Gave freq and verie statement only, 3-3/4ips tape sent. (Lobdell, Mass.) RAI sent standard v/q from Rome for 1115, no date or time, freq typed in. In transit about 2 months. (Paul Kilroy, D.C.)
- 1151 England. BBC Stagshaw. V/1 from P. Williams somewhat inspecific on reception details. Enclosed small booklet on Guide to BBC Radio and TV stations. Address is BBC, PO Box 27, Broadcast House, Piccadilly, Manchester 1. (Kilroy, D.C.)
- 1205 Sierra Leone. Verie card in from "Radio Sierra Leone", 10 kw for my reports of Jan. 27 and 28, 1970. Can't read the name of the v/s but he is the director. A beautiful stamp on the card. One of the very best veries I have collected since 1933...verie #2 from Africa from California. (Hank Wilkinson, Hollywood, Calif.)

Thailand DX report de Glenn Hauser ... Longwave loggings were made on a Heath GR-54. Local high noise level seems even worse on LW than on MW here, however I was using my 60 foot LW on the night I was testing the rcvr, and the wire surely inadequate. I urge that any club covering MW also extend coverage to any LW broadcast DX reported to it, because of the identical nature of transmission on the 2 bands, and correlation of propagation between them. Otherwise, this worthwhile aspect of DXing will remain an outcast, with too little interest devoted to it to merit exclusive LW DX clubs or columns. I might add that aeronautical beacons in SE Asia dominate the band here, but being utility; are clearly beyond the scope of broadcast DX coverage. (Editor's note - as I mentioned in IDX-DMR last winter, when we ran the TALP results, we would run items concerning LW DX in this column if they were submitted to us and if they were clearly of some interest. This would not mean a weekly column in its own right - there certainly doesn't exist that much interest - but we have already gone on record as establishing coverage of LW DX in NRC on an occasional basis. In other words, if you will send in a few items occasionally, we will make room for them. We might get some feedback about "waste of club monies" but the fact is, we've already bought the space. Now, let's fill it with something useful. Ed.)

Items below logged from Nakhon Ratchasima, Thailand.

- 218 Azerbaijan. Baku listed. Moscow TS and news theme 1400 3/19, talk not readable.
- 245 Asiatic RSFSR. Music at 1410, 1428 brief anct in Russian, 1500 IS. Vladivostok is scheduled silent during this hour; Nikolayevsk/Amure also is listed, but it seems likely this is the same station as cities not far apart. (more)

- 263 Asiatic RSFSR. Russian talk at 1405 3/19 probably Chita altho Moscow also sked 24hrs here.
- 394 Asiatic RSFSR. Omsk listed, Russian talk at 1420 3/19, QRM from beacon "BT" on same freq.
- 540 So. Vietnam. AFVN Saigon (and other outlets) have detailed local ID block nightly at 1557GMT, followed by Viet and US anthems, preceded by devotional. Single tone at 1600 GMT, time in 24hr system, into news.
- 690 China. A number of new Russian service outlets have just begun to be hrd as of 4/28. One of them here, strong at 1205 but QRM from Dacca near 691.
- 720 China. Radio Peking Russian, new here, strong, detailed list of satellite pass times at 1245 4/26.
- 730 unID. Hrd briefly at 1128 4/21 in Eng "long live the revolutionary government..." man and woman in documentary-type dialog, with Beethoven piano mx as punctuation. Normally hear India here.
- 740 China. Peking Russian svce, new here, // others but weaker. 1206 4/28.
- 800 China. Russian ID as "Govorit Pekin" and talk on Leninism, a low het. New Freq.
- 801 unid. 1212 4/16, as 735. Could be North Korea, altho other channels such as 655 and 785 were not hrd.
- 844 Gilbert & Ellice (?) Finally detected a carrier here at 1345, sked s/on 3/18, getting much stronger 845 signals from the west.
- 880 Sikkim. The listing of this stn in the WRTVH frequency pages has enticed me a great deal, since few if any DXers have ever logged the station. However a letter from Karma Topden, the Secretary to the Chogyal, in Gangtok says in part, "Sikkim does not have a broadcasting station as yet" so relax, country-counters. (That note may possibly be just a reservation, with the IFRB, for a future assignment there on that freq?ed)
- 918 Cambodia. Phnom-Penh HS is here; had wondered why I no longer hrd them in the 1400's. I believe they've been here some time but were just mistaken for another Thai station. Observed at 1040 4/16 strong with an anti-Viet Cong statement, in Khmère, then in French, then ID "Thini Phnom Penh", martial mx, drama in Khmère. Was // 4907 SW, and not heard on 740 or on 6090. At 1119 pgm ended, ID in Khmère, and repetition of proclamation dated 4/15. Excellent national music cont'd past 1134.
- 1140 Philippines. VoA now sked AN but usually just an OC if anything. On 4/16 however, had special Eng talk at 1225 // 1178, evidently on late for Apollo coverage. Okinawa-1178 noted with SAH evident this date/time.
- 1178 Kazakh SSR. M&W alternating in Russian news 1403 4/10, not hrd before, Petropavlovsk listed.
- 1290 Yet another new Russian svce freq 4/26 at 1440 // 1250 with satellite pass times. (This item China-my omission-Ed.) Logged at 1250 4/28 with Russian talk, strong. Would think most of these new Chinese would be audible in Europe without too much trouble.
- 1340 China. R Peking very strong as usual 1125 relaying signal of first Chinese satellite (same IS as R. Peking, East is Red) as was the case on all FS freqs, e.g. 9860.
- 1365 No. Vietnam. 4/1 ID 0830 by man & woman as Viet Bac // 6713 SW, hrd other times, songs, M&W talking calmly. 1357 ID and off. Viet Bac is a region of North Vietnam, encompassing several counties. (Việt Bắc actually means north Viet, as Việt Nam means south Viet. There is a name for the central part, Việt Trung but politics doesn't recognize that. They are still listed on 1360 in Sep '69 FBIS, slogan therein refers to "radio station for liberated zone of north Viet" if my dictionary right.)
- 1537 Vietnam. REW has reported this before as a South Vietnamese of some sort. Strong here, e.g. 3/29 at 1044, mx, ID, mx, slow deliberate dictation in Viet, 1050 anthem on harmonica, then gongs and drums like a train getting up steam, and off. ID, as nearly as I can copy from tape, was "đai la tiếng noi koma phat jen tum I corps." (last part beats me, sorry..ed)

IDXD - Thailand DX report, continued

I would like to point out that I have been wrong in identifying the Soviet and Chinese anthems. I had always thought that the anthem hrd from Soviet stns was the Internationale, thus a different piece hrd from China had to be something else. I have finally realized that the Soviet anthem is just that-"The Soviet Hymn" and that China does routinely use the Internationale, as Richard Wood has maintained all along. So, many of my reports have been incorrect in that respect. (Tnx for the clarification, Glenn. This would be a difficult thing for a DXer to know, as samples of these compositions are not readily obtainable and one has to depend on monitoring the Soviet or Chinese stations, and knowing which one he was listening to, to know how the music sounds. With Russian stations broadcasting in Chinese and vice versa, this problem of identification is just that much harder. -Ed.) 30

--- BACK OF THE FILE ---

Jay Murley advises that an agency media director he knows had a request/proposal from a "Radio Omega-VZW" with a mailing address of Kolenberg 25, 3930 Zelem, Belgium. He is seeking more info. This sounds like it might be an outfit that buys time in blocks from people like Andorra or Luxembourg, and then resells it to others. Those who went on the XKEN station tour at the 1969 convention saw this practice in action, hi. I doubt it is a station that transmits, but who knows?? Can anyone supply further info on this one?

Jerry Starr has a verie from CFFB and asks about its country status. Notwithstanding the fact it is surrounded by water, -I would surmise this is the same situation as the Kauai Island exclusion. Inasmuch as the island is under Canadian jurisdiction, I feel we have to count it as Canada (and as NWT for domestic records). If anyone feels otherwise, we'll print his comments here.

Spain. The German DX club ADDX comments on a recent tendency of Spanish stns to leave the crowded channels of 1133, 1412 etc. and move to European splits; it cites recent moves by ECS-8 La Voz del Guadalquivir, Sevilla from 1133 to 1120 and EFE-57, La Voz de Navarra, Pamplona from 1133 to 1164. Watch for more such changes. (Via Richard Wood, Hawaii)

British Standard Time (GMT plus 1) is still officially describes as an "experiment". The fight against it continues in the British Parliament, led by Scottish m.p.'s. Watch for possible changes. (via Richard Wood)

Speaking of time, Richard Wood and Glenn Hauser have come out in favor of a change to GMT in the International section, with the proviso that both major clubs make the switch. No other comments have been made...

Bill Brubaker had a nice visit from Cesar Objio who was in Miami the end of April. Bill also writes that he was in Nassau a few weeks ago, and visited ZNS. They received a legitimate report, with tape, on ZNS-2 (1240 kHz) from a DXer in Prague, Czechoslovakia...who suggested ZNS2 boost their power so that they might be heard regularly over there! They hope to perhaps do a DX with this station in the future, as they have had several such requests.

Alex Bowab, reporting from Malta with the fleet, writes that he thinks there is a good chance he will be able to get to the Convention as his ship will be in the yards for repairs over Labor Day. Hope so!

Welcome to new reporter Steve Kamp, using a Hq140X, longwire and an IRCA spiral loop. Steve came over to BCB from SW; after 3 months he is up to 14 countries (as of report time, which missed my previous section) so he's probably past me by now, hi.

Guess that's it for now. Good summer DX.

73 Bob

An Introduction to Simply-constructed Audio Filters & Networks

by Russell J. Edmunds

One of the major problems confronting DX'ers today is that of how to remove the desired signal from the rest of the noises in the receiver's passband. Although much time has been spent in the discussion of removing undesired signals little has been said regarding the removal of noise, or, more recently, the removal of undesired heterodynes.

While many of us have found the heterodynes caused by two adjacent stations "beating against" each other to be an invaluable aid in determining the presence of signals on split frequencies, and, in many cases, in determining and recognizing two or more stations within 5 kHz. of each other, this heterodyne, or "het" rapidly becomes a major nuisance once it has outlived its usefulness as an indicator. Therefore, there is no reason at all why we shouldn't endeavor to find a way to remove it at will. To this end, among others, man has created a device known as an audio filter.

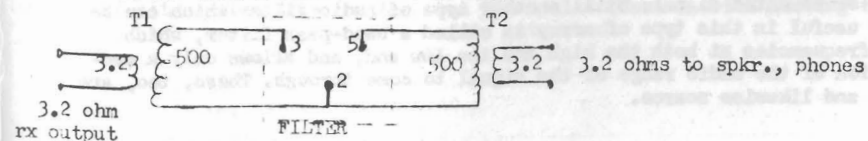
Until quite recently, audio filters were rarely used by DX'ers, which fact is perhaps related to their scarcity in the market. Thusly, we likewise find that most of the audio filters which are best suited for the needs of the BCB DX'er are also quite expensive. As it happens, though, one must ultimately get to the point where he has improved his receiver in enough other areas to have necessitated some improvement in the audio section, and this is best done by the use of audio filters.

Simple audio filters come in two basic varieties, high-pass, and low-pass. Although there are several other types, some of which we will discuss later and others which we will ignore completely for simplicity's sake, we will take the two mentioned here as basic to the DX'er first starting in with audio filtering. Each of these types of filters allows a specific portion of the signal to pass through it unattenuated, hence the designations of "low-pass" and "high-pass". The low-pass filter allows low frequencies to pass through, thereby attenuating or reducing the high frequencies. The high-pass filter does just the opposite. Each is defined by a specific cutoff frequency, where its effect stops, although in lesser varieties, this cutoff may be far from sharp.

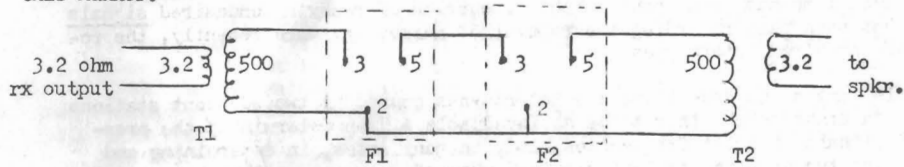
Of most interest to the BCB DX'er should be the low-pass filter on the order of 2.5 kHz. cutoff. This type of filter passes signals whose audio frequency is below 2.5 kHz. Thus, if a signal has components both above and below this cutoff, primarily those below it will be passed on to the speaker or phones. The reason that this type of filter is of greatest significance is in its price, availability, and ease of inclusion into the audio output circuit. ((NOTE: ALL audio filters discussed in this article are installed between the output of the receiver, and the speaker or phones!!)) The installation of a filter such as described here is the one which was published in DX NEWS just about a year ago, and the parts needed are as follows:

- 1) 2.7 kHz. low-pass filter (Available from Fair Radio Sales, Lima, Ohio)
- 2) 3.2 : 500 ohm standard output transformers (Available anywhere)

The circuit for such a filter is shown below:



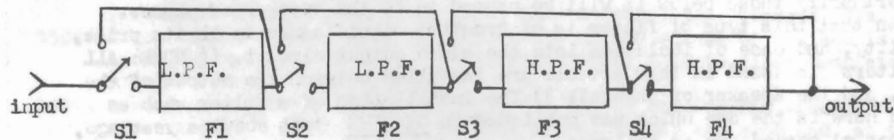
It is also possible to hook up two or more filters of this type in series, as this will yield an effect similar to that achieved by running the signal twice through the same filter, i.e., the cutoff will be much sharper in accordance with the number of filters used or the number of times the signal is fed through the same filter. Likewise, filters of different values may be wired in this manner:



One of the largest advantages of this type of filter (low-pass or a compound low-pass) is its ability to eliminate the audio tones generated as heterodynes. Of course a filter network comprised of low-pass filters won't help to eliminate the really troublesome hets of 2 kHz. or less, as they are contained in the audio range of most signals, but such a network would indeed help to reduce many others.

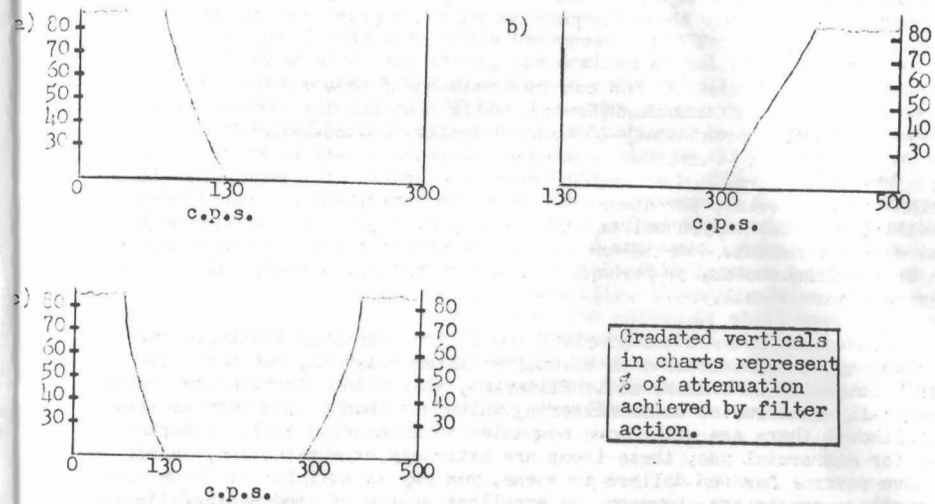
Similarly, the high-pass filter can be an extremely useful apparatus for the DX'er, as it can be used to eliminate low-cycle hets or 60- or 120- cycle (Hertz) hums caused by power line noise. The basic problem here is that of cost. High-pass filters, say on the order of a 150-200 Hertz cutoff frequency, generally run from \$30-\$50 to some really large sums for non-standard values. Thus, most DX'ers are priced out of the market before they start. Should you discover a source of supply for high-pass filters you can afford, they may be wired in the same general manner as are low-pass filters.

Frequently, the varied uses for which a DX'er would employ an audio filter or filters require a filter network to ease operations. Such a network might include two or three differing values each of low- and high-pass filters. The adaptability of such a system is almost unlimited, as nearly every possible type of noise or undesired signal component can be reduced or eliminated without undue difficulty. A block diagram of a filter network such as is described above is shown here to illustrate from a standpoint of function, just how the network is pieced together.



This type of circuit will allow the use of any combination of the four filters. For use with networks consisting of greater numbers of individual filters, simply continue the same system of wiring. With such a system, one can selectively cut out various chunks of the signal's audio range to attenuate noise or unwanted signal. Still another type of audio filter which can be extremely useful in this type of array is called a band-pass filter, which cuts out frequencies at both the high and the low end, and allows only a central portion of the audio range of the signal to come through. These, too, are expensive and likewise scarce.

At this point in the discussion, it becomes increasingly important that the distinction among the functions of the various filters mentioned is made absolutely clear; therefore the diagrams below depicting the functions of a) a high-pass filter, b) a low-pass filter, and c) a band-pass filter, is included.



In the case of the human speaking voice, we find that the average male speaking voice has a basic audio range ((The term basic audio range, hereinafter referred to as BAR denotes the range of frequencies covered by the primary vibrations, excluding harmonics, of the sound producer in question.)) of approximately 130-150 cycles (Hertz), while the average female speaking voice has a BAR of approximately 235-295 cycles (Hertz). While it is true that much of what we hear as a voice is based upon the overtones known as harmonics which tend to give resonance and timbre to the speaking voice, we will consider for the sake of hypothesis, only the BAR of the voice, and, likewise, we shall consider only the BAR in the other examples associated with the above charts.

In figure (a) above, we see illustrated the effects of a high-pass, fixed-frequency filter with a cutoff value of 130 cycles (Hertz). This filter has the effect of cutting out (attenuating) all audio frequencies below this cutoff point, and passing (hence the name, high-pass filter) all frequencies above this cutoff point. This particular type of filter, although strictly hypothetical, would be useful to the DX'er in that it would allow for the attenuation of undesired 60- and 120- cycle (Hertz) hums, but still leave the BAR of the human speaking voice unhindered, thereby allowing the passage of intelligible audio. The same principle applies to the low-pass filter (b) except that it is in reverse: all frequencies above the cutoff point, in this case, 300 cycles (Hertz), while passing those below it. Thus, the effect would be that of attenuating hets greater than 300 cycles (Hertz) while leaving the BAR of the human speaking voice once again untouched.

A third type of filter of interest to the DX'er is the Band-Pass filter, which passes only a specific group of frequencies within the total audio spectrum, while rejecting other frequencies both above and below the desired range, as in (c), which depicts a fixed-frequency band-pass filter which passes frequencies between 130 and 300 cycles (Hertz). This filter combines the actions of both the high-pass and the low-pass filters mentioned previously, leaving us with only those frequencies which comprise the B.M. of the human speaking voice.

By comparison, the B.M. for combined male and female singing voices is approximately 90 to 1000 cycles (Hertz), while that for the average piece of recorded music is approximately 30 to 2100 cycles (Hertz). Bear in mind also, that the accompanying charts are not accurate representations of the performance of these filters, and are really exaggerations for the purpose of illustration only. Likewise, the amount of signal an individual may consider to be "intelligible" will vary considerably, and should therefore by no means be considered a constant. Some DX'ers may prefer constant elimination of either high or low frequencies, or perhaps even a combination thereof, while others may prefer none at all.

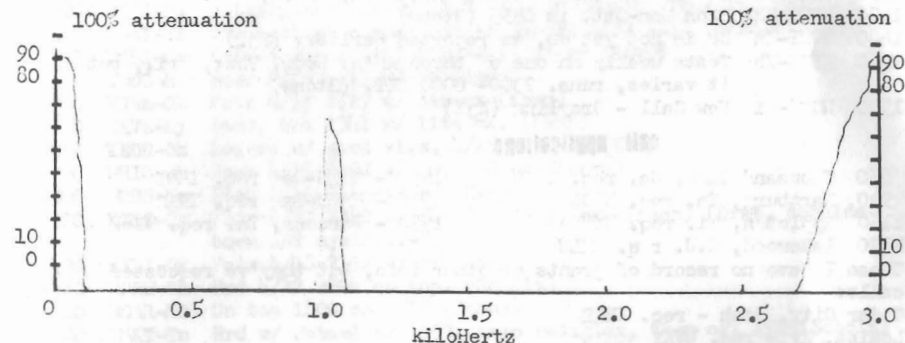
We have now covered the simple fixed filters commonly available and how they may be constructed into effective filter networks, but there is still another way to achieve audio filtering, that being through the use of commercially-constructed audio filtering units obtained on the surplus market. Although there are still some companies manufacturing audio filtering units for commercial use, these items are extremely expensive, and, unless you have several hundred dollars to spend, you may as well forget these units. The surplus markets are, however, an excellent source of used audio-filtering units manufactured during the last two or three decades. Generally, these units may be obtained for anywhere from \$10 to \$120, depending on how much rebuilding one is prepared to do, and, their real value lies in the fact that they are almost exclusively VARIABLE filters.

One of the more readily-attainable types is the Variable Band-Pass Filter. This filter functions in generally the same way as the fixed-frequency Band-Pass filter discussed above, save that its frequency range is variable, usually between 20 & 2000 or 20 & 20,000 cycles (Hertz). This feature allows the user to select any given set of cutoff frequencies to define the desired passband, which enables him to reject either all frequencies above a certain point, or all frequencies below a certain point, or some combination of the two. For example, if we have the example listed for the fixed-frequency band-pass unit above, we may select 130 cycles (Hertz) as the low-cutoff and 300 cycles (Hertz) as the high cutoff point. Likewise if we have only a 60 cycle (Hertz) hum and a 500 cycle (Hertz) het to eliminate, we may set the filter for, say, 75 & 450 cycles (Hertz) to accomplish this.

Still another type of filter currently available on the surplus market is known as a Variable Band-Reject Filter. This particular type of filter's action serves to reject a specific group of frequencies within the audio spectrum. In this way, it can be thought of as having a function precisely the inverse of the Band-Pass filter in terms of the end result only. The effect achieved is the attenuation of a chunk of frequencies in the middle of the audio spectrum while passing unhindered any frequencies both above and below this group. This filter allows for the rejection of the objectionable audio heterodyne (het) created by adjacent stations, providing it is within the audio range. This effectively makes the filter useful for hets ranging from about 100 cycles (Hertz) to about 3000 cycles (Hertz). In more sophisticated species of this type, the actual width of the rejection band

is also variable. These units may also be used to eliminate test tones to reveal audio underneath. Optimally, such use will create a situation which is comparable to that occurring when a weak audio is perceived beneath a strong open carrier (OC). The filter is simply tuned to the offending frequency, and the basic frequency of the het or tone is attenuated. Unfortunately, however, it will usually be impossible to remove the harmonics of the basic frequency involved. The reader should likewise remember that when we speak of the basic frequency, we mean the basic frequency of the tone involved, and not a frequency in relation to the tuning of the receiver.

By the use of both a variable band-pass and a variable band-reject filter in cooperation with each other, the desired signal may be cleaned of many objectionable components and intrusions in order to allow a significantly easier reading of the signal. If the DX'er has access to a tape recorder, an even more significant improvement may be achieved by playing the filtered tape of a given reception back through the filter or filter network one or more times in order to effect a more definitive cut-off. The action of a filter network such as described above appears elsewhere on this page, wherein we shall assume that we wish to eliminate the following undesirable audio components: a) a 60-cycle (Hertz) hum; b) a 3 kc. (kHz.) tone; and c) a 1 kHz. het. The attenuation of these components will still leave a large enough portion of the audio to allow easy readability. Given an additional variable band-reject filter, we could, of course also eliminate still more hets, such as a 500 cycle (Hertz) het from still another adjacent station, although as a rule, it is very rare indeed to require that much rejection. The system employing one band-pass and one band-reject filter should be more than adequate in 99% of the cases a DX'er may encounter.



Thus, we have explored the majority of the easily-obtained and/or easily-constructed audio filtering units. While it is true that there are many other devices which will likewise perform the audio filtering function, they are generally complicated construction projects, or would require parts which are extremely difficult and/or expensive to obtain. For this reason, the author has chosen to omit them from this discussion in that it pertains specifically to introducing the reader to the concept of audio filtration as a useful and readily available part of the DX'ing hobby. It is hoped that further discussions on this subject will follow, and that they will delve into the more complicated theoretical and practical aspects thereof.



EDITOR:
 R.J. Edmunds
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 Wayne, N.J. 07470

Greetings, peoples: What with publishing difficulties and bad ex, this looks like it'll be a small column, but it's gonna be complicated by the time change. Since about 1/3 of the material submitted was from before the change, each of the DX sections (A & C) will be divided into two sub-parts, the first for EST, the second for EDT. After this, however, all items will be EDT thru October. Please keep this in mind when submitting to DXD. Also, PLEAZE do not address things to NRC, or NRC DXD, or whatever. All mail should be addressed to me personally, else it confuses the already-too-confused postal workers. Likewise, please try to submit in list form, as opposed to a letter format. Section D is small, too, as all of the items received by 5/8 were put into the Updater. Also, the order of sections herein is altered for my own convenience this time. So, without further ado.....

P/C's

All of the following heard in MARCH: KWLA-1530; KWYO-1410; WBTS-1480; KNOX-1310; WJH-1580; WFB-1550; WCCN-1370; WAFC-900; KLEO-1480; WELK-1010; KLT-1560; KPLC-1470; WENK-1240; KSRC-1290; KTM-1400; WPLB-1380; WICS-1480; WDD-940; KCHA-1580; KSYL-970.

changes

- + 1280 KVOV-Nv ex-KTOO (RJE)
- + 1290 WBR?-M My info conflicts: is it WBR or WBRB?? (RJE)
- + 1390 CHCO-On Is off AN. (Bill Stone, Claremont, Ont.)
- + 1470 WOH-Oh S/on Mon-Sat. is 0455 (Stone)
- + 1480 WPHI-In CP is not yet on, as reported earlier. (RJE)
- 1550 KIOS-NB Tests weekly on one of three AM's: Wed., Thu., Fri., but it varies, runs. 2300- 0000 EDT. (Stone)
- + 1590 WERY-MI New Call - Braylin; (RJE)

call applications

850 Thousand Oaks, Ca. req. KIID	1490 - KONS-Co req. KFDI
940 Wartburg, Tn. req. WCCO	1510 - KAH-Tx req. WJAN
1150 Appleton, VA. req. WJBE	1550 - Parsons, Tn. req. WBBP
1170 Lakewood, N.J. r q. WELN	

These I have no record of grants or other info, but they've requested calls:

Cedar City, Utah - req. WBRB
 Louisa, Ky - req. WVKY
 Lake Havasu City, Az - req. KFWJ

midnight to sunrise

EST Loggings..

- 1280 WDSU-La Good 0445 4/19 w/ lite mx. (Steve Kamp, Irving, Texas)
- 1290 WOL-Ab Hrd AN 4/13, reported. (Stone)
- 1410 WMBB-Ka Good 0217 4/19 w/ ads, ID (Kamp) (Stone)
- 1490 WTKL-Ia Testing 0220-0245+ for audio & freq. measurements on 4/15
- 1560 WCMW-Oh Testing w/ TT ending 0155 4/18 (Stone)

EDT loggings:

- 560 WYB-IL ET/TT 0400-0430 EDT 5/1 (Stone)
- 860 WPR-BC on top 0337 4/26 o/ XMO, KONO. (Stone)
- KONO-Tx In clear 0432 w/ TC after WPR gone (Stone)

- 940 WBSN-La On top 0438-0500 4/26. (Stone)
- WBSN-VI ET-mx hrd 0501-0515+ 4/26 (Stone)
- WOL-Ia Hrd TC (whoops; Temp. check-RJE) for greater Des Moines 0545 4/26 (Stone)
- 1090 WJBC-IL ET/mx ending 0247 3 May, atop freq. (Stone)
- 1230 WBAK-Pa ET/TT & ID's 0337-0351 4/27 (Stone)
- 1240 WBAK-Pa Atop channel 0335 4/27
- 1250 WJBC-On Topping WBAK all AM, first time hrd, 0300-0330 4/27 (Stone)
- 1410 WKSL-On Hrd w/ s9+ 0300 news 4/27 (Stone)
- 1460 WERL-Mo Atop w/ ET-mx 0100+ 5/2 (Stone)
- 1500 WDEE-MI S/off 0300 4/27, then into ET. (Stone)
- unTD-Tx Hrd u/WDEE 5/2 0215-0251.30 w/ ET, hrd "in Texas", but not call, help? 3 listed. (Stone)
- WTOP-DC Hrd on after new listed s/off 4/21 & 22 (this shoulda been EDT, but I goofed -RJE)
- 1560 KRQB-Ia Hrd w/ ET 0156-0201 w/ mx. 5/4 (Stone)
- 1600 WJAZ-IL Hrd atop WJAZ w/ no 3JRN all AM 5/3 (Stone)

Bill also notes that almost all big CBC outlets were AN 4/14-17 for Apollo 13 emergency. Sez apparently CBL was the feed stn.

Sunset & evening

First, the EST loggings....

- 610 WSGN-AL Poor @ 2300 4/8 w/ rr (Kamp)
 - KILT-Tx Very weak 1948-2004 w/ rr 4/8 (Kamp)
 - 630 KHOW-Co Fair sigs 4/14 2304 w/ nx (Kamp)
 - 770 KOB -NM Strongest ever here 5/2 2126-2142 w/ MoR (Kamp) (Shoulda been in EDT list, oh well...-RJE)
 - 850 WBBU-Pa Briefly w/ ID 4/22 2118 (Carter Scholz, Tenafly, NJ)
 - WEAT-FL C/w against strong het in aurora 4/22 2112 (Scholz)
 - 930 WSLI-Ms Fair-to-poor 4/15 2110-2119 w/ rr (Kamp)
 - KROC-Mo poor 2119 4/15 w/ wx (Kamp)
 - 960 KQMA-Ok Fair 4/19 2129 w/ c&w mx (Kamp)
 - 970 WAVE-Ky Good, 4/8 2341 w/ lite mx. (Kamp)
 - 1110 KBOB-Ok Logged w/ good sigs. 4/26 1936-52 (Kamp)
 - 1290 WJHO-Oh Poor 4/15 2300 w/ ID, CBS nx. (Kamp)
 - 1300 WRBS-Ms Poor 4/19 2146 w/ rr (Kamp)
 - 1320 KXYZ-Tx Fair 4/29 2342 w/ IL (???-RJE), mx. (Kamp) (Drat, shoulda been EDT again...-RJE)
 - 1430 KELI-Ok Fair 4/13 2152 w/ rr (Kamp)
 - 1460 WPRN-Va Hrd 4/22 2004 on top. (Scholz)
 - 1480 WVAR-Ma On top 1800 on 4/18 (Stone)
 - 1500 WSKT-Tn Hrd w/ Mutual nx 1903, into religion, then off 1915 (Scholz)
 - Thru WSKT & others for brief ID 1902, then gone (Scholz)
 - Hrd after WLIJ/WSKT s/off's w/ good mx, 1925 4/21 (as are 2 previous, my omission -RJE)
- and, the EDT stuff, what's left of it....
- 770 KOB -NM Stronger than ever b4, 5/2 2126-2142 w/ MoR... (Kamp) (So, this one's listed twice....RJE)
 - 1000 WJOT-IL Hrd @ 2015 s/off 3/May (Stone)
 - WJOO-Pa Ditto above (Stone)
 - 1300 WERL-Mb Poor 5/4 2131 w/ rr (Kamp)
 - 1580 WJAZ-Ia Hrd 2032-2045 s/off 4/28 (Stone)
 - WTGR-Mo In/out w/ WJAZ, others @ 2045 & on 4/28 (Stone)

Y'know, this is really outrageous, this time-change business... and, worse yet, I'll have some other stuff left from EST for next issue...

73 1/2
 RJE

I have gleaned a list of the originating stations for each major league baseball team, and how many stations they feed, from Broadcasting, and am running it here. The Montreal Expos have two nets, one FF, the other FF, but with no originating station. The entire Montreal net will be listed after the originating stations list. Number in parentheses is number of stations fed.

<u>N.L.-East</u>	<u>N.L.-West</u>
Chicago Cubs - WGN-720 (24)	Atlanta Braves - WSB-750 (?)
Montreal Expos - see below	Cincinnati Reds - WLW-700 (100)
New York Mets - WNRZ-970 (32)	Houston Astros - HPRC-950 (?)
Philadelphia Phillies - WCAU-1210(24)	Los Angeles Dodgers - KFI-640 (12)*
Pittsburgh Pirates - KDKA-1020 (?)	San Diego Padres - KOGO-600(1)
St. Louis Cardinals - WOX-1120 (100)	San Francisco Giants - KSFO-560 (14)
	* KMLM-1300 carries Dodger games in CS

<u>A.L.-East</u>	<u>A.L.-West</u>
Baltimore Orioles - BAL-1190 (?)	California Angels - KRPC-710 (20)
Boston Red Sox - WDH-850 (47)	Chicago White Sox - WMA-670 (90)
Cleveland Indians - WRE-1300 (25)	Kansas City Royals - KMB-980 (50)
Detroit Tigers - WJR-760 (32)	Milwaukee Brewers - WMLP-1250 (?)
New York Yankees - WNN-1050 (38)	Minnesota Twins - WCCO-830 (100)
Washington Senators - WDCD-1260 (?)	Oakland Athletics - KATB-680 (10)

Montreal Expos' BB NETS:

<u>EE</u>	<u>FF</u>
WBAV-960, Plattsburg, N.Y.	CKLM-1570, Montreal, P.Q.
WMB-1230, Gouverneur, N.Y.	CJSO-1320, Sorel, P.Q.
WPDN-1470, Potsdam, N.Y.	CHTF-1150, Granby, P.Q.
WPCF-600, Montreal, P.Q.	CKJL-900, St. Jerome, P.Q.
CKLM-1440, Ottawa, Ont.	CJLM-1350, Joliette, P.Q.
CHAM-1280, Hamilton, Ont.	CJMT-1420, Chicoutimi, P.Q.
CKSL-1410, London, Ont.	

RANDOMNESS.....

→ Anyone having any notes as to what stations were inaudible due to blanketing, and what ones were enhanced during the Aurora which occurred 3/31 & 4/1, please send a copy of these items in the form of a band survey to me, as between Page Taylor & myself, we have a complete survey for the NYZ area, and would like to add in info from other areas to more accurately pinpoint the auroral zone on those dates.

WRAN TEST VERIES will be issued shortly. This latest delay is due to a re-order of the QSL cards. Rest assured that they'll be sent out as soon as the cards arrive. A list of reporters should accompany this page.

CONVENTION plans are still pushing ahead. Complete data as to transportation, price data, tentative schedule, etc. will appear next issue. I had hoped to run it this time, but last-minute difficulties with securing a site for the DX-pedition, in addition to campus turmoil which caused me to put off taking a few days off from work, have held things up. I can say that the prices are to be very similar to those in past years, and as a result, we are expecting the biggest turnout ever!

→ THE FCC is considering a proposal to allow Class 1A clears to increase their power to 100 kw., and perhaps more. The proposal is FCC Docket # 18651. Write the FCC today to protest this unnecessary outrage!!!

UPDATER

XX570	WPA-Tx	full time, NET: 10	1000	KOTD-Mb	New call (Plattsburgh)
XX570	WPA-Tx	delete	1010	KOHJ-Ca	SCH: 0730(0830)-0400
540	WBR -Sa	SCH: 0655-0115	1060	WUPD-Az	SCH: 24 hrs., SP: MM 0300-0700
550	WCE -Az	SCH: MSP		WHYZ-SC	PSA: 500
	WFO-On	PAR: 10000/2500	1070	CHOK-On	SCH: 24 hrs.
560	KSFO-Ca	SCH: 24hrs., off SH 0500-0800	1080	WKAC-Al	CP: 5000 U1
	WVXL-MY	PSA: 73		WPHS-TV	new call (Hurricane)
580	KOBH-SD	PSA: 500	1090	KVDB-Ta	Clar. call; PSA:500
590	WERS-Ju	CP: 10000/5000 U1		WRSR-PR	ex-WJJS
600	WTOG-La	ex-WOM	1110	WRLA-Ca	SCH: 24 hrs., SP MM 0300-0800
	CP -NYT	Tuktoyaktuk, 1000 U1		WALT-Fl	PSA: 175
610	CKYL-Al	PAR: 10000 U2		KBND-Or	CP: 10000/1000 U2
620	KGHS-Ca	SCH: 0900-0300		KSDO-Ca	SCH: 0830(0900)-0300
630	KZUN-Wa	CP: 1000 D1	1130	WCHX-NC	New call (Eden)
680	WISJ-NC	CP: 1000/250 U2(po:1480)		CP -Pa	Waynesboro, 17268; 1000 D3
	WTFI-On	CP: 10000/25000 U3		KIIS-Ca	ex-KRKD
690	WBS-Ju	NET: E	1150	CP -Wi	Appleton, 54911; 1000 D3
710	KMPG-Ca	SCH: 24 hrs., off 1st MM 0400-		CBKK-BC	ex-1240 kHz.; NET: E
			1170	KCBQ-Ca	SCH: 24 hrs., SP MM 0330-0830
740	CBAN-NB	NET: E		WVLC-Ma	Is on. 1000 D3
	CBQZ-Nf	NET: F		CP -On	Chatboro, DELETE
760	KATB-Ca	SCH: 0800(0900)-0400(0300)	1180	KOFI-Mt	SCH: 0800-0200
770	KOB -MM	24 hrs., off MM, -0730		WOAI-Tx	SCH: 24 hrs., SP MM 0130-0600
790	KABC-Ca	SCH: 24 hrs., SP: MM 0300-0800	1200	WKNX-Mi	PSA: 500
810	WPEL-Va	PSA: 250	1210	KGYN-Ok	SCH: s/on 0630
	KGO -Wa	SCH: 24 hrs., SP: Su, MM's 0300-0800	1220	CP -Man	Brandon, DELETE
	WELF-Vt	CP: 1000 D1	1230	CP -Nf	Port-aux-Basques, 250 U1
820	WFAA-Tx	delete	1240	KSON-Ca	SCH: 24 hrs., SP: MM 0300-0800
	WBAP-Tx	full time, NET: N		CBKK-BC	DELETE
840	WHAS-Ky	SCH: 24 hrs., off MM	X 1250	KTMS-Ca	SCH: 0830-0530
850	WYDE-Al	CP: 50000 D?	X1240	KADS-Ok	ex-KBEK
	KOA -Co	SCH: 24 hrs., SP:MM 0210-0700		CP -BC	Castlegar, DELETE
	WRAP-Va	SCH: 0500-0000		CP -BC	100 Mile House, 250 U1
860	WATE-Md	delete NET		CRDP-Nf	NET: F
	CBXF-Al	NET: F	1260	KHIL-Ca	SCH: 24 hrs., SP: MM 0400-0830
870	WL -La	SCH: 24 hrs., off MM 0100-0600	1280	KFOX-Ca	SCH: 24 hrs., SP MM 0300-0800
880	WRVN-Nb	CP: ANT U2	1300	WFBR-Md	NET: C
900	CKJL-Ju	Clar. call.	1310	WELT-Va	SCH: 0500-0200 (Clarify)
910	KDEO-Ca	SCH: MSP	1320	WUDE-Ta	SCH: 0800-0300
920	WTRS-Fl	Is on. (Dunellon)		CP -On	Trenton, DELETE
930	WVNH-NH	NET: C	1340	CP -Alta	Wetawaskewin, DELETE
940	WVBE-Ca	SCH: 0800-0300 (0400)		CP -Nf	Wabush, DELETE
	CP -Tn	Wartburg, 37887; 1000 D1, Box 98.		CBEU-On	ex-CBEU (Clar.)
970	KONV-Ca	SCH: MSP		CBEU-On	(new) Timagami, 40 U1; NET: E
	WOZN-Fl	ex-WBOM (not yet on)		WOCK-DC	NET: Delete
990	WIBB-Ta	ADD: 17 Ridge Pike, Lafayette Hills, Pa., 19444	1360	KGB -Ca	SCH: 24 hrs., SP MM 0415-0800
	CBEL-On	NET: F			

1360 WJBS-F1- Delete CP
CP -Mo- Cameron, 64429; 500
D3; Box 221

1370 EKLP-Mt- SCH: s/on 0756
KPOR-Wa- SCH: s/on 0800
CP -BC- Burnaby; 10000 UL

1380 KTSM-Tx- SCH: s/on 0730

1390 KGER-Ca- SCH: 24 hrs., SP MM
0300-0800

1410 KERN-Ca- SCH: 24 hrs., SP MM

1420 WASH-NH- Is on. 1000 DI
WCOJ-Pa- SCH: 0400(0600)-0000

1430 KARM-Ca- SCH: 24 hrs., SP MM
0300-0800

CKFH-On- CP: 50000 U?

1440 KPRO-Ca- SCH: 24 hrs., SP SuM
0400-0900

KUHL-Ca- SCH: s/on 0800

1450 WILM-De- SCH: 0600(0700)-0100
(0000 Su, Mm's)

KOBE-NM- SCH: 24 hrs., SP SuM,

1460 KDON-Ca- SCH: 24 hrs., SP: MM,
0300-0900

WMBR-F1- NET: C

KENO-Nv- SCH: 24 hrs., SP MM,
0300-0900

1470 KPLC-La- CP is on.

1480 KWIZ-Ca- SCH: 24 hrs., SP MM,
0400-0800

KOFE-Id- PSA: 500

1500 WSWS-Ky- New call (Berea)
CP -On- St. Catherine's, DE-
LETE.

1520 KACY-Ca- SCH: 24 hrs., SP MM,
0415-0800

WKJR-Mi- CP: 10000 D3

1530 CP -Ga- Thomson, 30824; 1000 DI,
CH: 500

1540 KPOL-Ca- SCH: 24 hrs., SP MM 0330-
0800

1550 WPJD-Tn- New call (Daisy)
CP -Tn- Parsons, 38363; 500 DI
Box 248.

1560 WTRQ-NC- Clar. Freq.; New call;
(Warsaw)

KPMC-Ca- SCH: 0900-0300

1570 CP -Man- Thornhill, DELETE
CP -On- Burlington, DELETE

1580 KDAY-Ca- SCH: 24 hrs., SP MM
0300-0800

1590 KEVL-La- PSA: 500
WEEZ-Pa- SCH: 24 hrs., SP SuM,
0000-0600

CP -Qu- Ste. Basile de Portneuf;
DELETE

1600 KWOW-Ca- SCH: NSP
WINX-Md- NET: delete
CP -Mn- Walker, 56484; 500 DI
GJRN-On- CP is on.

ADDEENDA:
730 CKLG-BC- SCH: 24 hrs., SP MM 0300-
0800.

THIS UPDATER INCLUDES ALL INFO
REC'D THRU 5/1/70. IT LIKEWISE
WILL REPLACE THE CHANGES SECTION
OF DDXD THIS ISSUE. NEXT UPDATER
WILL APPAR IN TWO ISSUES (THAT
IS ISSUE AFTER NEXT). -RJE

More random notes...

I've not got either Page Taylor's or my DX from about 4/1 on, so there'll be some EST stuff mixed in. I'll simply note them as EST in passing. What we're really doing here is ELT, so technically, there's no difference, but it's still a nuisance. Also, I'm working & going away this week, and my time is a bit short. Let's hope there's more stuff for next issue, and " " from more people. Most of my DX has been LA's during the period of 4/17-4/23, when good LA's were available. Since, I've been hampered by work, tiredness, static, TVI, and generally lousy cx, as there's been little or no recovery take place from said aurora as yet, so we must have reached the saturation point in terms of recovery.

PLEASE NOTE: I'll not run any minor sked changes in either regular sections or in Updater until we're back on EST, as the confusion is bad enuf without.

FLASH!!! We've Got a DX-pedition site for the convention, so all info on that subject will appear in next issue. Make your plans now, and remember, there'll be informal gatherings, and/or trips to NIC itself Thursday nite (7/3) and Friday during the day (9/4). Dunno if Hets or Yanks(boo) are here for either, but will have that info, I hope, for inclusion next time...
73's from RJE

MORRIS SOREINSEN - Box 93 - Emsdale, Ontario

I finished up at Laurentian U. on 4/25 so I have been able to do a little DXing with the following meager results (all times EDT). 4/27- WAGO-1450 Pa. 12:28am, WADAD-1450 Pa., 7:58pm, un-ID-1240 s/off w/vocal SSB @ 8:04pm. Does this fit WCRW? WCRO-1230 Pa. 8:04pm also. 4/29- IPR1-1240 11:20am. At that time it would have to be either CBEZ Britt Ont. or CBLO, Mattawa, Ont, both a round 60 miles. 4/30- WADD-1560 Brockport, N.Y. 7:11-8pm s/off, WISL-1480, Pa. 8:14pm. 5/2- WAGO-1490 N.Y. 6:56-7:09pm s/off. 5/4- CHLO-1570 Ont. finally IDed u/CKIM/CFOR @ 11:10pm but not enough for report. Pattern likely protects semi-local CFOR. Only QSLs received were v/q- XEMO-860, v/f- KIRL-1460, & v/PPC CHAM-1280. I see by the 4/11 DX NEWS that CKVT-1340, the new Lemescamie, Que. station is now on so they are now my closest unheard other than IPR1s. I'm not sure but I would guess the distance to be between 80 & 90 miles. They could be rough as CKAR1- 340, 35 miles away has a fairly strong signal here. Once again I am in need of American stamps for return postage and if any U.S. members need Canadian stamps I would be glad to swap with them. 73.

ALAN MERRIMAN - Box 6 - Fairfax, Virginia - 22030

Not really much doing in the way of DX but I thought I would get my 26 worth in. For the past six weeks I have been working a shift that puts me at work at 3am on MM so not so good for DX. I have been doing some listening but just can't seem to come up with any new ones. The usual crop of unIDing testers that bother everyone. Only new loggings have been on 4/5: WPIT-730 to s/off @ 7, & on 4/12, WAKE-1500 w/ET @ 1:05am. I have also noted the new WWLC-1170 at sunset but not enough to log yet w/WWVA & another station, probably WWLE, providing much QRM. Veries continue good with new ones in from HRVD-985 Oran-548 EBC-1546 Malta EFE14-1097, Italy-1115 WAKE WFBF WPIT WSAN WADR & KCMC. Looking back, this was a very successful season both quantity & quality wise w/90 new veries & goodies such as BBC-1546 Malta and Tarawa-844. A couple of disappointments such as no answer from Libya-1124 and R. Nordse but I guess there is still hope. I am going to do some listening this Summer & am looking forward very much to the Convention. 73, & if not before, I'll see you in Hasbrouck Heights.

FRANK WHEELER - 6589 Wattsburg Road - Erie, Pennsylvania - 16509

About time I sent in some kind of report. Off the record, I sent reports to the various other editors about receiving stations on certain dates, times, etc. and what is left, for Musings. The highlight of the '69-'70 BCB season for me was receiving YVOD-780 Venezuela on 2/2 after WBBM s/off, & HJDK-750 on 3/23 trying for KXL (I never did receive the latter). I received 35 new from 10/69 to 4/30/70, & 31 veries, for a total of 2,652 received w/1,613 veries. I hope the mail service gets better during '70 & '71. I hope everybody has an enjoyable Summer, & TV DXers have a lot of success, also may we BCB DXers also catch a few new ones on BCB. I'm also an ardent TV DXer. 73s.

JOHN P. LOMBARDO - 23 Grove Terrace - Irvington, New Jersey - 07111

Since this is my first Musing, here is a short introduction. I'm 15 & a sophomore at Irvington High School. First I would like to thank Joe Fela & Ken Lyon for their welcoming notes. 4/26- I heard an unID TT between 3:47-3:49am on 1440, any help? 8:07pm, WKBR-1250 in w/a fairly good signal. 4/27- A MM & CHYM noted in w/a fairly good signal & I tuned to 1520 & noted WKBW off at this time, but no catches resulted. 4/28- At 5:57am I noted that CJBC had a TT on until 6am. 4/29- WLAN received on SSS. 4/30- UnID-1490 @ 7:57pm w/Tankee BB. Any help on this one. 5/2- WSHI-1550 made it through again for their TT w/mx between 1:15-1:30am. 5/3- A little after 3pm local WELA went off the air in the middle of a song & didn't come back on for the remainder of the day. Because of this, two new stations were heard: #1 was WMBT Pa. & #2 was WPMO Me. on SSS. Recent veries are WNNJ-1360 WKBR & WFBG, all v/q. I would also like to thank Harry Helms for his WIXE verie. 73s & good DX. (Welcome to the NRC, John, & we hope to see lots more Musings from you in up-coming issues! -ERC)

RICHARD E. WOOD - U. of Hawaii - Cep't of European Languages Honolulu 96822
 Verifications: CKDM-730 Man., Man. #3; now, if CKY-380 would only reply; KBRX-1350 Neb., first from Hawaii but beaten by a report from Sydney Australia; WEAS-900 Ga., most distant report; KENT-1340 Ariz/ most distant report in current records; KXL-750 Ore., CKCY-920 Ont., KLIIV-1590 Cal., first from Hawaii during office of present CE. Just shows how little interest there is in DX in these islands, as I have often heard KLIIV on a car radio, & it is certainly one of the top ten mainland stations here. Well, I have finally done it: crossed the 40-state heard barrier & logged #41, N.C. Yes, WFGW-1010 N.C. was noted conducting an ET w/voice ID on 4/6 @ 5:35am. At this time, it had a clear channel in NA; no sign of CFRB for a change, doubtless due to the somewhat Summery CX which do not favor E. Canada, & only QRM was moderate XEHL. SFE-1010 easily looped. So, my 41st state is reported. I still need S.C., N.J., Del., Md. and N.E. except Mass. Other reports out: My 14th Cal. heard, KCBQ-1170, strangely overdue, but never heard before due to KLOK, KVOO, plus many extremely late s/offs of local KOHO-1170, often around 7am; reported 4/1. Then on MM 4/6, besides WPCW, I reported KDEM-1490 Mont. f/c, noted w/very frequent CW IDs, KWCB-1300 Ark. S/on time after MM SP on KDJW-10k0 Tex/ noted listed in NRC Log, is 6:05, first w/ID, then non-vocal SSB. The new New Caledonia 20kw. Xn, first planned on 730 & then listed in 1970 WRTH, is in fact on 670, & notrd w/weak signals, not in the least comparable w/G&E-844. To judge from strength, it is only likely to be heard in NA when at least six or seven Aussies are making it in. Speaking of Australia, I think the best bit for that country is 2RE-1560, despite its low power; it has a clear channel after 3am, when nobody is testing. The high frequency makes a tremendous difference.

DAVE WHATMOUGH - 284 Main Street West - Hamilton, 12, Ontario

DX lately has been good at SRS & SSS, but MMs have been of little use the last four weeks. 3/23- WOTT-1410 dominating o/KQV/WDOE/WLSH, 5:30-6. WCBG-1590 like a local covering WAKR/WGGO during the same period. WCDL-1440 o/WJL/WHHH, all unnn. 3/20- WAXU-1580 ending ET @ 1:11, very strong. 3/24- WVKO-1580 EP from 4:30-5 w/TT. 3/25- WKOL-1570 s/on @ 6:15 o/CHLO/CFOR/CKIM. WNRV-990 mixed w/pest WNOX 6:43-6:54. 4/1- Fantastic SSS. No sign of CHIN-1540 all afternoon but Wayne Plunkett confirms they were on. (Who?? -ERC) Logs taken on WPSW & WRCP mixed w/WPTR/KXEL until 6:45 s/off. Twelve s/offs were heard on 1580, some unID. The strongest were WVKO & WAXU which strangely enough are two I have been after for years & both of which were heard on ET a few days before. Others IDed s/off on 1580- KWNT Davenport, WRBJ St. Johns, WJVA South Bend, and two regulars, WEND & WPGC. It would have been interesting to know what the other five were. One was probably long-wanted WSKT, Knoxville. Several veries have arrived since last report: v/1- WTRX WIO; WANN w/CM after f/up, WATR WSBT w/CM WAUK WJBL WBS after several f/ups; WMIC WRBJ KRNT WJOR WJVA WKYO WIEM w/SC (IEM card) WCRM. v/q- WBCX CHSJ WKZO WHEF WHFB WLIX WINZ WISN WVKO WGBF WMDN. v/r- WORD CHLN WAXU WTRU. v/r- WKRS w/CM WOTT. v/CM- KLVI. No bulletin received from either NRC or RLA for over a month now. I understand our printer is having problems. Last NRC bulletin received was dated 3/14. As of today, 4/17, total veries stand at 737, with 1,598 heard. 73s for now.

EDWARD BRUCE REYNOLDS - Box 2637, CMR2 - Sheppard AFB, Texas - 76311

Hi gang. I've sirt if been out of touch with the world of DX lately, as I haven't done much listening & I haven't received a DX NEWS for several weeks. I guess the P.O. is to blame. I did have an opportunity to meet Doug Juen a while back and I hope we can get together again soon. The big gest news here is the fact that I'm going to Japan in August. I'm being sent to Camp Drake, near Tokyo, the HQ of the Far East Network. I hope I get to stay there. Well, I hope everyone has a good Spring and Summer, and best of DX! 73s.

CONVENTION TIME IS SNEAKING UP ON US! BE SURE TO MAKE THOSE IMPORTANT PLANS NOW SO THAT YOU'LL BE ABLE TO TAKE IT IN. HAVE SOME FUN TALKING DX WITH DXERS!

DICK TRUAV - 5101 Lamarock Drive - Charleston, West Virginia - 25312

Not knowing when & if this will see print, I hope that some of it is still timely. No DX NEWS since 3/14 received here. Down to DX such as it is: 3/25- WGNC-1450 N.C. on 1448A all evening creating nice het but easily separable from the mess w/AEN NX on hour & AIN NX on half hour. 3/26- WFEA-1370 N.H. cutting through WSPD pest nicely @ 12:17am w/rr & SID for N.H. #2. WAZA-1360 Ga. w/f/c & ID @ 12:26am o/WSAI nicely. 4/3-- WHBG-1360 Va. w/f/c ending @ 12:15am & WBEZ-1360 N.J. w/f/c beginning @ 12:15, both covering WSAI pest, then @ 12:22am, nice ID from WSLT-1520 N.J. on f/c. Later, @ 1:15am, WCBG-1590 Pa. ID on f/c, & KFVS-960 Mo. w/s/c & ID @ 1:09am. 4/4- WEZJ-1440 Ky. w/f/c & ID @ 4:04am, & WCSV-1520 Tenn. on f/c w/ID @ 4:14am s/off. 4/5- SSS was outstanding to deep Midwest. KMPL-1520 Mo. w/mx & ID @ 7:21pm killing WKEW/KOMA, KIRL-1460 Mo. s/off @ 7:29pm, & best catch KPIK-1580 Colo. w/c/w @ 8:04pm till 8:30 s/off. MM 4/6- KGA-1510 Wash. s/off @ 3:34am w/CJRS pest null'd, WBSM-1420 Mass. noted filling void left by absent WHK @ 4:01am. MM 4/13- Static season set in, only newie was WIBG-990 Pa. @ 2am ID on ET. 4/16- WASA-1330 Md. noted @ 12:04am w/TT & ID i/WESC nicely. WKZI-900 Ill. s/off @ 7:28pm u/PJB, w/CKLW null'd. Things are slowing down somewhat. I hope to break the 800 logged mark by 5/1 before the Summer slump sets in. More in a few weeks.

G. HARLEY DeLEURERE - Box 233 - Elk Garden, West Virginia - 26717

What has happened to the DX NEWS? I haven't received an issue since the 3/14 number. It just doesn't make sense. In the meantime I've renewed my membership in the NRC for the 15th consecutive year. I don't regret it. Recent veries include WMEG-920 Eau Gallie, Fla.; WCPK-1600 Chesapeake, Va.; WBLU-1480 Salem, Va.; WHYP-1530, North East, Pa.; & WDEM-1500, Macon, Ga. WDEM's address is Box 46, Macon, Ga. 31202. Where can I obtain a complete list of Spanish stations together with addresses for such? I'd be interested in receiving such a list before June. Maybe I had better clarify what I mean by "Spanish stations." I mean stations from the country of Spain, in Europe. Thank you. (The World Radio-TV Handbook is certainly the most excellent source I know of -ERC)

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

I just received my first copies of DX NEWS. As a matter of introduction, I am 14, have been DXing about a year, & use a 1955 Sylvania, minus any antenna. Pittsburgh has a presence of seven fulltime stations, but results have been surprisingly good. Total stations heard: 126, foreign, 22. My prizes are: CKKC B.C., 1,000w; KWJJ Portland; TWR Bonaire (which I thought was PJB) & KTRG, Hawaii. Recently heard but not yet verified: R. Belize-834, WLEB-620, where is it? (It isn't - ERC) And KSWS u/KDKA. CX here have deteriorated. My newest stations are: WICT-1070 N.C., WMGA-1130 Ga., WCYU-1550 Fla. w/s/off, WKVX-900 Tenn., & WCAR-1130 Mich. I decided to have some MM DX, since Easter vacation was coming up, on 3/30. CX weren't bad. I heard the following: WINZ-940 Fla., usually hidden by CHM, an EP of WSLR-1590 Fla., but not enough for a report, WBRE-1340 Pa., KTRH-740 Tex., XELO-800 Mexico, KRWN-880 Neb., & the next day what sounded like WZAR (?) Memphis (?) - any ideas? Keep DXing, & 73. (Welcome to the NRC, Eric - We hope to hear from you soon again - ERC)

JOE KURETH - 9233 West Stayman Drive - Ellicott City, Maryland - 21043

Hi all. Reason for not Musing the latter half of this DX season is that there has been little DX in this den to report. Eclipse of 3/7 was interesting but none of the astonishing stuff which was mentioned in the NRC article; the later article on the abnormally strong Aurora CX explained why. During the eclipse, I tuned mostly 1570 as WPOW was off (and still is). Up to 1:40pm on that date, there was some WPGM & WBUX, but very suddenly WPGM's signal strength shot up & stayed there (40 o/S-9) for about 15 minutes. Other interesting CX that day were the domination of 690 by semi-local WKUR, which completely wiped out the WCEM-680 slop. CX like this on channels adjacent to locals were common over the dial. Only other abnormal DX was WRYM-840 very strong around 1:45. A part-time

job has kept me away from the MM Specials but KXL-750 is trying again & I'm trying to get off for that TEST. I still need Oregon & this may be a DXer's only chance for a long time. I am looking forward to the new NRC Log & the LA Log which was mentioned sometime before. The NRC gets bigger and better as it goes along. 73.

RICK MARR - 6912 West Park Drive - Hyattsville, Maryland - 20783

Howdy partners. DX has been relatively slight in this den during the last few months, mostly due to heavy amounts of schoolwork & my activities w/ the U. of Md. campus radio station, WMUC-650. However, on 3/30/70 I noted WVOB-1520 in Bel Air, Md. w/15 @ 11am. It appears that WVOB is now mixed regularly during the daylight hours w/WTRI in Brunswick, Md. on 1520k. Meanwhile, 1570 seems to be completely nil now daytime since WPOW in Towson, Md. left the air due to \$\$\$ complications. If anything is there it will never be heard by yours truly because WPOC splatter from 1500 is just too heavy. Incidentally, I understand WPOW will remain off the air for another 3-6 months. Total number of stations logged stands at 80 from eight states plus D.C., daytime DXing only. On the local radio scene, as reported to RJE recently, WEEL-1310 in Fairfax, Va. is airing all Washington Senators BB games this season in addition to the Nats' flagship station, WWDC-1260. And in looking over a listing of the Senators BB network (which I've sent to ERC) I see that the American League team has 18 AM stations & nine FM stations down the line this year. Also, WOOK-1340 D.C. and WINX-1600 Rockville, Md. have each dropped their affiliation w/MBS while WAVA-780 Arlington, Va. "All NX" has picked up the network. Finally, beginning this past week WINX is no longer ANing except on Fri & Sat. nights. Operating sked is evidently 8am to 1am daily except for the days listed above. Happy Spring, Happy EDT, and long live the Vampire (RJE).

JIM JANKOWSKI - 11 Meadowbrook Terrace - Corfu, New York - 14036

Greetings, fellow NRCers! As an intro for those who don't know me, I'm 13 (going on 14) & got my interest in DXing when my father picked up a 1940 SW rx. I listened to SW for about 1 1/2 years, joined NASWA, but then got tired as the same old stations were heard. I then began to listen to BCB DX. I joined the NNRC in 9/69. They got me interested on the AM band more. I then received a sample IRCA DXM & joined that club in 11/69. As I grew more experienced, I joined the NRC. Total states heard are 4033, not including Puerto Rico. Total station totals are not yet computed, but they're about 220/120. Only foreign stations heard (other than Cuba & Mexico) are R. Belize & PJB. Boy, what an introduction! NRCers, re my recent comments in IRCA DXM: forget it! A letter from Frank Waldron prompted me to join NRC. Recent veries: WWRL WIRL WBTS WAVE WHDH WKY WAHT WLEA & WSA. Most DXing done now at SSS. Recent catches: 3/30-WKY-930 @ 1am just at end of local WBLN's SSB. WUNO-1320 @ 2:05am ending mx - shocked me to hear P.R.! WSA-1330 @ 1:56am w/TT; verie doesn't specify f/c or not. 4/7- WQCR-1440 s/off 6:42pm. 4/13- WJAB-1440 @ 6pm w/ID. 4/16- WBYZ-1140 @ s/off @ 7pm good o/WRVA. 4/18- CHLO-1570 St. Thomas Ont. @ 9:28pm w/many SIDs, good-bye XERF, hi! There's more DXing, but that's about all I'll list as dates may be wrong as I keep dates on a separate sheet of paper & this was lost. Fred Osterman, you welcomed me as an IRCAer, now you can welcome me as an NRCer, hi. Jerry Starr; could you please send me some CPC stationery? Thanks. To everyone, good DXing, & 73. (Welcome to NRC from me too, Jim! Muse often! Good DX! -ERC)

JOHN JOHNSON - Hoboken, New Jersey

New RX here, a Hallicrafter SX-133 four-band superhet, single conversion w/IF3 peaked at 1650k. Sensitivity & selectivity are very good. The following stations received since last report: WELA-1530 Elizabeth, N.J. WLIK-1270 Newport, Va. CKFH-1430 Toronto. CKLB-1350 Oshawa, Ont., WHAF-1340 Worcester, Mass. WSAO-1550 Sanitobia, Miss. WSRF-1580 Ft. Lauderdale, Fla. WRDW-1480 Augusta, Ga. CKFM-1440 Ottawa Ont. WAJH-1580 Hammonton, N.J. CKBC-1360 Bathurst, N.B.

WCEF-1050 Parkersburg, W. Va. WFFG-1300 Marathon, Fla. WLBR-1270 Lebanon, Pa. CJMS-1280 Montreal; & WFCM-1550 Winston, N.C. 73s.

JERRY K. CONRAD - Box 952 - Haines City, Florida - 33844

I've finally finished my triple-mechanical filter array. It took 50 hours of work & was worth every minute of it. I put it in one of the better RXes around (Collins R390A) & it made it look like a five-tube superhet in comparison to before. Separating splits to less than 1k. is no harder than tuning 10k. channels on any other radio. I photographed the whole process & as soon as I get it all written up GPM says he'll publish the how-to-do. If I can put it together anyone can. The only electronics I've had is through DXing it-self. Meanwhile if anyone has any questions or problems with his, I'll try to help. HIMS veried for their TEST & I also got WRAN & WNIO for two prize catches from Florida. During the WNIO TEST, ZNS was on OC for 15 minutes as promised via a phone call to their GM. Thanks, ZNS! Lots of new DX since I last reported most sent to Foxy but some domestics not on. 970-Jacksonville, Fla. 1190, Fort Lauderdale, Fla., 1440-Lehigh Acres, Fla. are all NOT on as of 4/22 though I've seen reports on two of them. I did log CHIR on 3/15 @ 4am w/HI-AN show mixed w/ Trinidad's OC. They s/on @ 4:30am. And I logged WPTR-1540 during WNIO's TEST. They were under everything else on the channel. I mus run. See you in Hasbrouck Heights! 73.

HAROLD E. COX - 80 Virginia Terrace - Forty Fort, Pennsylvania - 19704

New members apparently should introduce themselves, so I will do so here. I joined in January but have been waiting to try to piece together all of the information on the NRC operation. I would suggest that the new member kit should include info on the Supremacy Ratings. I still haven't figured out how this works. I am professor of history at Wilkes College and 38 years old. I began zradio DXing in 1946 w/an S-38 & continued with some regularity until 1954. I decided to get back active last year but time is limited, especially with 8am classes every morning including Mondays. I am currently using a Hallicrafters S-76 (age 18) w/a Mosley SWL-7 antenna oriented 50°-230°. This gives good results despite its design. Also a Drake SPR-4 (age, four weeks) temporarily hooked to a 50' straight line oriented 45°-225°. Antennas are a problem because of zoning regs on the front of the house and a jungle of electric wires on the back. Totals since 2/7 are 210 stations, 27 states, three provinces and nine countries. Best stats: Pa.' 53; N.Y. 30; Ohio 26; Ont. 13. Most distant - Tirana on 1394k. I never bothered w/veries till now but have lately accumulated 18. I also work SW. I would like to see DX NEWS use GMT throughout. I think it should make things easier than switching all the time. (Welcome to the NRC, Harold, & we hope to hear often from you! -ERC)

LARRY E. BLACK - 8501 Broadway - Indianapolis, Indiana - 46240

You asked for some second Musings to go with the first, so here's mine. Going back a while: 3/13 produced WPTR-1540 @ 10:47pm w/KXEL null'd; I got a good nine minutes on them. KVOL-1330 @ 11:16pm came out of the garble for another nice catch. 3/16- CKY-580 in w/no QRM, QRN, QSB & a signal strength of 4! (Let's hear it for the "q" code). Also a nice f/c from WORV-1580 @ 2:09am w/severe WCIS. 3/20, long-awaited KMA-960 pulled over WDBJ w/a livestock report. 4/3- A 250 watter from Dayton on 1210 was on all morning, as was WERT Van Wert, O. on 1220, another 250 watter! 4/6- I found WNDR-1260 fighting the QRM w/local WFBM off. I got a piece of WPDQ-600. I heard temperature ("It's 59° in Jacksonville!") & then the First Edition sang. With just the two things I heard, they were veried in less than one week! 4/8- KNIN-990 IDing as "Kay-Nine Radio" Jumped in as soon as semi-local WERK s/off. 4/21- KRMG-740 @ 10:05pm w/CBL null'd & KTRH in the background. The latest is 4/22. WFBC-1330 @ 10:13 w/sports & AP NX, the second for S.C. A few (very few) new veries- v/q KMA WCFE WISM. v/1- WORV KNIN WPDQ WERI WNOP. Till next time, 73. (Thanks, Larry! -ERC)

NEXT ISSUE IN THREE WEEKS - BROOKLINE MUSINGS DEADLINE WILL BE TUESDAY, JUNE 2!

WASHINGTON SENATORS' BASEBALL NETWORK (submitted by Rick Marr)

100	W S V A	1200	W A G E	1430	W I V E
110	W S I G	1310	W B E L	1450	W F T R
100	W S V S	1340	W E P M		W T H U
120	W P T X		W J M A	1490	W C V A
120	W W D C	1350	W F L S	1550	W X V A
1270	W U O K	1380	W A Y Z	1560	W S M D

KANSAS CITY ROYALS; BASEBALL NETWORK (submitted by David N. Lewis)

Arkansas - 1390 K A M O Iowa - 900 K M A

Kansas	980	W I B W	Missouri	950	K L I K
	990	K G G F		980	K M B Z
	1010	K I N D		1240	K N E M
	1240	K I U L		1280	K D K D
		K A K E		1300	K M M O
	1260	K W H K		1400	K T T S
	1290	K W N S		1450	W M B H
	1340	K S E K			K O K O
	1370	K G N O		1470	K G H M
	1400	K A Y S		1490	K D M O
	1420	K U L Y			K D R O
				1550	K K J O
Nebraska	1230	K T N C		1570	K L E X
	1400	K L I N			

NEW YORK METS' BASEBALL NETWORK (submitted by Allen M. Nissen)

620	W V M T	1050	W S E N	1370	W E L V
630	W I N R	1220	W G N Y		W A L K
730	W D O S	1230	W H U C	1400	W S T C
870	W H C U	1290	W G L I	1460	W O K O
900	W K A J	1310	W V I P	1550	W B A Z
930	W I Z R	1320	W A T R	1450	W N A B
950	W I B X	1340	W B R E		W K I P
970	W J R Z				

(from the 1970 New York Mets' Scorecard)
(except WALK-1370, which was observed w/game by ERC)

REMEMBER THE DX TESTS BY KVBR-1340, Brainerd, Minn. on 5/22, 5/23, 6/10 & 6/20, @ 12:30-12:40; 1:00-1:10; 1:30-1:40; 2:00-2:10; 2:30-2:40; 3:00-3:10; 3:30-3:40am, EST. Note - EST - add one hour for EDT and subtract one hour for CST. EST and CDT are one and the same. KVBR is on CDT. Mark Parsons, Chief Engineer.

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

Very nice v/1 from WQXT-1340 from transplanted New England/New Yorker, Geoff Fox, now at their FM station (WMUM) and nice v/q from R. Barquisimeto -690. SM 4/19 - Brand new Radio Clarin-860 noted I&C - they're in Santo Domingo, and seem to be AN SMS & MMs. No report sent yet - I'm waiting to get an address. MM 4/20, nothing exciting - or dull, either. MM 4/27 - A.N.C. station s/off-1470 @ 1:57am, unID, probably WBIC. 4/28 & 4/30 - Enough at twilight time finally on WPAW-1540 o/u WPPR/WRCP/CHIN, also 5/1. MM 5/4 - Unn WPOD-1560 noted w/TTs of varying pitches, 12:26 & on. Unn XEG-1050 fooled me w/concert rx @ 12:59, as they ended "La Hora Nacional". Another tester u/WPOD noted @ 1:43-2:00, unID - they had MoR olives. Then I noted an AN talk-a-thon on 1340 & stopped to find out who this was topping that channel. It turned out to be WHIC, but u/them came the sound of a TT, and suddenly they keyed into CW and sent "WQXT" a few times, for a very much welcomed logging, and veris back in seven days as noted above. This was a "private test" so that Jerry Conrad could log and tape them! And old Ernie horned in on it! WPAW-1110 noted atp @ 7:12pm 3/7, but faded u/others, and no report possible. MM 5/11 - Unn WBIC-860 f/c-12 @ 1:50am u/WLS-rr. WINS off till around 2, then back on.

VERIE SIGNERS

A - R. Wood	E - R. Evans	1430	W IqR E	G. W. Trout, CE	B		
B - J. Jankowski	F - unsigned		W IFL	T. Perryman, CM	B		
C - W. Stone	G - E. Cooper		K RFG I	E. G. Nelson, CE	A		
	D - R. Karchewski	1440	W EpZ J	K. Buck	E		
			W H I S	K. Dick, CE	A		
1180	K O F I	W. H. Patterson, M	D	1450	K G I W	G. H. Kettle, CE	A
1190	W OqW O	W. Wolfe, CE	BF		K OfN E	C. Anderson, CE	A
1200	W Oca I	u/u	D		K R Z Y	T. Moss, CE	A
1210	K GqY N	J. Fields, E	D		K S O L	T. Johnson, CE	D
1240	W T O N	O. P. Blackly	B		W MpB H	R. Lacey, M	E
1270	W C M R	E. C. Moore, SM	E		W T p C O	T. Kerr	E
	W T p N T	E. J. Mallory, CE	E	1460	W H E C	R. K. Blackburn, TD	A
1280	K V O X	J. R. Hetland, CE	A		K SqO	G. Myers, ESu	B
1290	K C U B	L. Holsclaw, CE	A	1470	K EqL A	W. Felton, TSu	A
	W C O W	J. D. Rice, P	A		W E A G	T. Teffeteler, CE	E
	W C B L	L. S. Weatherford, CE A	A	1480	K T p H S	W. C. Autry	E
	W T O C	K. E. Goodman, CE	A		K CqK W	R. C. Wagner, CE	E
	W A T O	D. Brown, CE	E		W L E A	Carol Strobel, TM	B
	W IqR L	D. E. Reifsteck, CE	B	1490	K B Z Y	R. Linn, CE	A
1300	W SpY D	P. E. Johnson, CE	E		W A Z L	R. Jay, PD	A
	W EFR E	J. Schraitle, CE	B		K R N R	D. James	A
1310	W KqN R	J. Martin, CE	E		K W A C	R. J. Duffy, GM	A
	W IqB A	N. G. Hahn, CE	E		K T E L	B. P. Roth, CE	A
	W I F E	M. Smith, CE	A	1500	K FpD N	J. G. Hunt, D	E
	K P L Y	M. C. Deaver	A		W D E N	C. McHan Jr., DoE	E
	C F G M	B. Barnegie, CE	B		W G M F	Grace Ann Peck, S	E
1320	W J A S	J. Opsta, CE	B		W TqO P	G. Klink, CE	F
	W C V R	D. E. Chestnut, CE	B	1510	W LfA C	E. Lawson, CE	B
	W H H O	N. E. Jorgensen, CE	B		W AqH T	F. D. Hemler, CE	B
1330	K Fch	L. W. Campbell, CE	E		W M E X	Mae E. Richmond	A
1340	K X E O	P. J. Null Jr., CE	AE	1530	W CqK Y	A. Lentz, CE	F
	K D L M	M. Peterson	E		W L C B	W. J. Mobbs, CE	AE
	K BcT A	R. W. Treat, CE	E	1550	W S H N	D. A. Ditlon, CE	E
	K G P C	T. Lorenzen, CE	A		K I C S	E. G. Nelson	C
	W UfS J	F. F. Ziehl, CE	B		K KqH I	F. Krock, CE	D
1350	W OTR K	E. Zug, CE	B	1560	W A D D	R. Howe, SM	C
	C HqO V	W. Schmidt, CE	B		K PqM C	J. A. Patterson, CE	A
1360	W HqB G	H. E. Richardson, CE	E	1570	W SqW V	C. Eardwell, SM	E
1370	K A W L	D. L. Johnson	A	1580	W P A C	E. R. Pfeiffer, CE	E
	K AqS T	R. Chopping, M	A		K TqU F	T. Chambers, CE	B
	K F I R	R. E. Meyers, SM	D	1590	W G G O	D. L. Hutchinson, PD	B
1380	K C I I	R. E. Ellinger, CE	B		W V N A	J. Hall, SM	E
1390	K G E R	L. Crumnaugh, CE	E	1600	W KpS K	R. Marsh	E
	W N U S	S. Schutt, CE	E				
1400	W G I L	J. Thompson, CE	A				
	W D W S	M. Sears, CE	A				
	K W Y N	A. Rogers, CE	A				
	K S I M	D. Williams, CE	A				
	K R P L	S. Nelson	A				
	K R U N	O. Denton, CE	A				
	K T N T	Jacquilene Avery, S/CE A	A				
	K P f A T	R. Conger, CE	D				
	K T N M	S. J. Barnes, M	E				
	W SpJ M	L. Watson	E				
1410	W A Z Y	C. Merritt, CE	E				
	C KfV N	J. Wiebe, Stu E	D				
1420	W A C K	A. V. Muller III, CE	B				
	W HfK	A. Rajnicek, CE	B				

We have still more v/s for you, which'll be coming along in future issues of DX NEWS. We thank those of you who have sent in v/s, and we ask more to do so, first weeding out those that have been listed in recent listings. Use our abbreviations, please, and put your name on the paper they're listed on, a separate sheet from your Musings. Please double space these, too - it makes it easier for your Editor. But again, please don't submit names and stations which have been on these pages in recent issues. Thank you, and let's have those verie signers!