



DX NEWS

*the magazine of the
National Radio Club*
— SINCE 1933 —

VOLUME 44, NO. 19

14 MARCH 1977

The countdown goes on, hi. As noted previously, we'll be doing two more issues after this one here in NJ. Louisville will then take over. Our last issue will be dated and mailed Monday 3/23 (Issue # 21); Louisville's first will be dated and mailed Monday April 11. Depending on logistics there, it may even be mailed earlier. Their second issue is scheduled to appear two weeks later, on April 25. Further announcements of schedule from there on will be forthcoming. Deadlines will, at least for the first few issues, we understand, remain essentially unchanged. This will hold until the LADs get into the routine, and have a chance to observe the mail service from the editors, as well as to see how the whole system functions.

We'll be starting to pack up non-essential items for shipment to Louisville within the next week, saving only what will be necessary for the final three weeks of operations here. We'll also have a new reprint list complete, up-to-date, and with several deletions due to lack of orders. That will appear either in our last one or the LADs' first.

ON THE INSIDE.....

- * The (Corrected) Apr. Graph for 10/76-2/77 - RJF
- * Publishers' Corner - HQ
- * A copy of the extract of the NARB's filing against BCB extension filed w/FCC

NEW MEMBERS

- * Tim Egerly, Box 370, Chaparral St. Rt., Anthony, NM 88021
- * Joseph D. Green, 3098 So. 1730 East St., Salt Lake City, UT 84106
- * R. Michael Tuggle, 909 Moore's Mill Rd., Bel Air, MD 21014 (Michael ^{was} with a crystal set only !!!!!)
- * William McKay, 1695 Playfair Dr., Apt. 432, Ottawa, Ontario, CANADA K1H 1G6
- * Wayne D. Tisdale, P.O. Box 89, Lemmon, SD 57638
- * John Allchin, 18 Burwood Crescent, Remuera, Auckland 5, NEW ZEALAND

RENEWALS

- A. Littek, G. Kass, J. Smith, Jr., W. Tinsley, R. Luton, R. Richman, S. Anderson
- B. Podall, Y. Morissette, M. Hardester, D. Feldman

FLASH TIPS & SUCHLIKE

3/7: WCMY-1430 was NOT ON. CE had pneumonia, per Mike Bischoff. TFSF is re-sked for MM 3/28, same time, etc. ; KYME-740 not hrd by PT, tentative by Musco.

NOTES & FROM NJCP

CIDX is sponsoring a contest to benefit the Handicapped Aid Program. It will be for all bands, scoring based on a formula featuring number of stations & number of states, countries, or provinces. 1st Prize is a Realistic SE-190, (which doesn't, by the way cover BCB, per Perry Ferrall). For further info on this (contest starts 0000 E.S.T. and runs 72 hours), contact, depending on time zone you live in: KET- Brian Pimblett, 9 Grandin Pl., St. Albert, Alta., T8M 1B5; NHT & CBT - Michael Bolitho, 106 Eastbourne Ave., Toronto, Ont., M5P 2G3; PBT, Alaska, Hawaii - Lynn Campbell, 1971 Bessie Dr., Mississauga, Ont. L4J 1W6. IST & other foreign - Morris Sorenson, Leaf Rapids, MB. RFB 1W6. We feel it's also fair to point out that the scoring does not favor QRP'ers, and definitely precludes FM-TV'ers from a decent shot at it.



THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

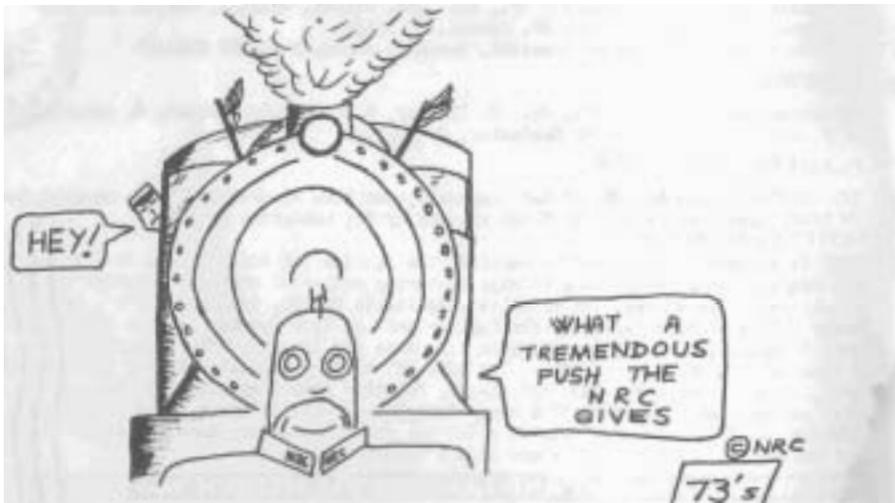
C. P. C. TEST SCHEDULE

SUNDAY	MAR. 13	- 0200-0400	* CJGX- 940	* Yorkton, SA	10000 U	CJGX
MONDAY	14	- 0630-0655	* WOI - 640	* Ames, IA	5000 L	IRCA
MONDAY	21	- 0100-0230	* WAKE-1500	* Valparaiso, IN	1000 D	NRC
		- 0200-0300	* WIGM-1490	* Medford, WI	1000/250 U	NNRC
SUNDAY	27	- 0330-0400	* KTFI-1270	* Twin Falls, ID	5000/1000 U	IRCA
MONDAY	28	- 0200-0300	* WCMY-1430	* Ottawa, IL	500 D	GWEXA

(Please note that the NNRC TEST above may not appear. Most NNRC TESTS over the past few seasons have not.)

DETAILS:

- CJGX** - Commemorating station's 50th anniversary. They've been known as a non-verifier, so this may be a good chance to get that verie, but ONLY FOR THE TEST. No f/ups of prior reports, as they may jeopardize TEST veries. Will have commentary on station, history and area. V/s: Harry Kerr, CE; Tower Bldg., S3N 1G2.
- WOI** - No pgm. details. V/s: Keith K. Ketcham, Iowa State Univ., 50010. Arr: Mike Samburn.
- WAKE** - EZL mx, TT, frequent IDs. "Mystery" code word which must appear in rpts. V/s will be Randy Woolbright, CE, but send reports to John Bowker, 304 Brandt Hall, 46383. Prepaid calls at (219) 462-6111. Full power non-DA. Arr: Bowker.
- WIGM** - No pgm. details. V/s: Ray Bohmert, CE, Box 59, 54451. Arr: Geo. Davis III.
- WCMY** - TT & IDs. Prepaid calls at (815)-434-6050. V/s: Del Dayton, CE, Box 430, 61360. Arr: Geoff Parrish. Make-up for 3/7 sked.
- KTFI** - Will use day facilities of 5 kw NDA. No calls. Return postage required. No program details. V/s: W. Snow, CE, Box 65, 83301. Arr: Nick Hall-Patch.



international dx digest

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

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

Greetings. A rather slim column this time. Cx have improved a bit - quite a few TAs were noted last night (3/4), but I didn't really have time to look for anything new. Had some audio from what was probably Upper Volta on 746 but not enough for a report. Here is what we have

New stations, changes, skeds, etc.

PORTUGAL Some corrections and additions appearing in the 1977 WRTH. Carrying Pgm. 1, add Mirandela on 728 khz with 10 kw. Correct power for Vila Real on 620 khz is 10 kw. Carrying Pgm 2, add Faro on 620 khz with 1 kw, Valenca on 926 khz with 1 kw and Viseu on 963 khz with 1 kw. The location of the 719 and 1061 khz xatrs listed as "Norte" is given as S. Salvador. (R. Portugal via Giannini)

SWEDEN R. Sweden is broadcasting concerts of Scandinavian folk and rock mx on Fri. nights from 0000-0200 GMT on Horby, 1178 khz. Reports are wanted. (SCMX)

Now, what has been heard

- 540 -ECUADOR HCFA2 Tropicana, Guayaquil on top in WDAK fade w/jingle, "Tropicana, la emisora de la juventud". Country #20. 0840, 2/26. (Gehringer)
- 545 -DOMINICA R. Jumbo fair w/m in FF, 0018, 2/23. (Connelly)
- 647 -ENGLAND Daventry in w/best sig ever at 2330 w/organ mx followed by talk at 2340 on 2/28. (Hendrickson)
- 660 -ST LUCIA R. St. Lucia s/on after "musical foghorn" IS, meditation at 0930 on 2/21. Nearly alone on channel. (Gehringer) / (Hendrickson)
- 692 -ENGLAND Moorside Edge 2320 in for a few minutes w/BBC talk, too much CBF splash.
- 701 -ANDORRA (Tentative) Fleetwood Mac record noted here at strong level, 0025, 2/23. (Connelly)
- 705 -ST VINCENT R. St. Vincent good steady clear sig w/soul, rock, some calypso mx 2320-0005 2/26; clear ID on the hour, country #75 heard. WOR no problem. (De Lorenzo) * 2/24 hrd here w/talking in EE 0050-0100, then into Perry Como records and other MoR artists w/f ancr. Religious sermon at 0127 then off w/OC. No actual ID hrd. (Hayes) * Fair for taping w/ID "This is R. St. Vincent", other EE talk, then soft ballad w/reggae beat, 0029-0031, 2/23. (Connelly) * Normal s/off seems to be 0130 w/carrier on somewhat later. Really strong here at times. (Conrad) / (Connelly)
- 719 -PORTUGAL Norte loud, wasting WGN; f in FF, then a-capella f vocal, 0038, 2/23.
- 725 -SURINAM SRS Paramaribo loud w/EE f soul record, 0040, 2/23. (Connelly)
- 737 -SPAIN Barcelona fair w/"A Little Help From My Friends" by Joe Cocker, 0042, 2/23. (Connelly) / (Lobel)
- 750 -NICARAGUA YNK Managua 2/28 1115 w/"Y Cinco" IDs. Song "Yellow Days sung in SS.
- 755 -PORTUGAL Lisbon 2345 blasting in w/cl mx and f ancr like a local fine low band opening on this last day of February. (Hendrickson) * Good o/TV QRM w/opera, 0043, 2/23. (Connelly)
- 773 -SPAIN Caceres to good peaks w/rock, then SS talk, well o/pesty WABC slop, 0044 2/23. (Connelly)
- 782 -PORTUGAL Miramar good to xInt w/f in FF, o/SAH, 0045, 2/23. (Connelly)
- 793 -CUBA FM type overmodulated Cuban here 3/1 0200 on. Somebody has bad problems. Really potent sig. Loops Eastern Cuba. (Conrad)
- 810 -BAHAMAS ZNS3 here now all day. ID very infrequently as R. 3 but all local programming now. Fairly good sig all day about equal in strength to WQIZ-810 but 90° apart on loop so I assume they are now using 10 kw. Not hrd at all at night. (Conrad)
- 818 -MOROCCO Rabat clearly dominant, strong w/m AA chant, 0052, 2/23. (Connelly)
- 827 -SPAIN (Tentative) Stn noted here w/rock mx on several occasions is believed to be Spain; s/off w/a NA hrd at 0058-0100 2/23 - taped for further analysis. (Con)
- 1005 -COLOMBIA HJDP Neiva 2/28 0856 w/Colombian mx, R. Colossal ID at 0859. (Lobel)
- 1124 -LIBYA Was on top around 0445 3/2 w/AA pgm. (Hutton)
- 1180 -CUBA Reloj ticker here w/fair sig 2/27, 0648. Thought I would check on Connelly's 1179.6 here and BFO showed an extremely weak sig on this freq but no audio. (Hayes)
- 1268 -WEST GERMANY Neumunster fair w/Muzak, 0207, 2/23. (Connelly)
- 1295 -ENGLAND 0542-0547 3/2 in East Euro lang, EE ID by m/f, into presumed GG. (Hutton)

- 1322 -UNID 3/1 from 0432-0510. Must be Dangerfield's December logging; playing odd semi-Middle East mx and some pieces that sounded like madrigals. M talk in East European language, not RR I think. (Hutton)
- 1376 -UNID M/f talking in unk language on 2/28 at 0445. Sounded a little like a language lesson. (Hayes)
- 1394 -ALBANIA Durres xint sig at 0510-0530 2/28 w/f talking in FF. Trumpet IS played several times at 0527. Sig deteriorated greatly after 0530. Was really the strongest TA this morning. (Hayes)
- 1466 -MONACO Monte Carlo 2/27 extremely strong at 2355 in a language I forgot to note, hi. But hrd w/anthem and carrier off 0000. Sunday sked? (Hayes)
- UNID noted u/TNH's OC 0427 3/2 w/opera mx. (Hutton)
- 1475 -UNID Sta here w/TT at 0503 on 2/26. Austria? (Hayes)
- 1502 -SPAIN A vy drifty SS stn noted 0603-0627 3/2 - moving around 30 hz or so per minute. (Hutton) (Conrad)
- 1525 -UNID Loops N/S always there, always weak never more than enough sig for but too weak audio. Loops N/S. IA or Thule? No real idea. IA would say Costa Rica but would assume audio unless vy low power at least once in a while.
- 1529 -VATICAN STATE Producing loud het on WCKY on 2/26 at 2330. Hrd w/strong sig w/fast instrumentals. No ID. In again next evening at same time. I better get this one while I can. (Hutton)
- 1538 -WEST GERMANY was the best TA on the band 3/1 around 0430 - louder than 1540.
- 1544 -FRANCE Nice in on 2/28 at 0615 w/fair sig w/FF talk. Was much weaker when Albania was in. (Hayes)
- 1575 -UNITED ARAB EMIRATES/COSTA RICA About 100 hz apart one on the high side of 1575. No audio from Costa Rica but xint audio from Sharjah 3/1 from 0240 t/in. M talking w/short female or high tenor m singing all AA. Vy good sig much of the time. I could do without the hum. The loop bearings are so close to 180° apart it doesn't help. They have to be using the 300 kw at least. Faded fast after 0255 but still audible. ??? of the season. (Conrad)
- 1586 -WEST GERMANY WDR Langenberg, w/march mx on 2/23 at 0615. (Hayes) * Good w/EE f vocal of old Dean Martin tune, then f in FF, 0135, 2/23. (Connelly)

Some varies

- 665 -PORTUGAL Lisbon 1, full data card in 23 days for PP report. (Giannini)
- 730 -MEXICO KEX, SS v/1 for SS report, IRC and tape. No details given and v/s Roberto Armendariz Paez, Director requests daytime report. (Rychalsky)
- 755 -PORTUGAL Full data card in 17 days for PP report. (Giannini)
- 1403 -GUINEA Conakry full data letter in 2 months for IRC and FF report. (Giannini)
- 1475 -AUSTRIA Vienna, ORF QSL w/1475 khz Vienna printed on the card, full data in 35 days. (Giannini)
- 1586 -WEST GERMANY WDR GG/EE w/q for EE report, tape and 2 IRC's in 1 month. No v/s and lacks reception details. First TA for me. (Rychalsky) * Received 3/1 for 2/2 report. First West Germany. (Wheeler)

The reporters for this issue

- Mary CONNELLY - Arlington, Mass. R390A/URR, SM-2
- Jerry CONRAD - Orlando, Florida R390A, box loop
- Marc DELORENZO - Centerville, Mass. HQ-100, SM-1
- Ed GEHRINGER - West Lafayette, Ind. 2 Grundig portables, TRF, passive boosters
- Roger GIANNINI - Belleville, Illinois
- Harry HAYES - Gouldsboro, Pa. R390A, SM-2
- Dave HENDRICKSON - Kingston, New York HQ-180A, 3 1/2' altaz loop
- Chuck HUTTON - Decatur, Georgia R388, Sanserino loop
- Albert LOBEL - San Diego, California DX150A, Sanserino loop
- Konstantine RYCHALSKY - Bridgeport, Conn.
- Frank WHEELER - Erie, Pa.

That is it. 73 DX See you in ?

DOMESTIC X IGEST

Editor: Eric Rittenhouse
2315 Dwight Way #101
Berkeley, CA 94704

Good Evening Kiddies,

Time now for another action packed edition of DDXD filled with thrills, chills, spills, and (dare I say it?) real insipidity (HWB would be proud of me, hi). On with it...

CHANGES:

- 550 KSD MO ST LOUIS, Has MM SP 0305-0600. (RG-IL)
- 590 WRTH IL WOOD RIVER, Seems NSP. (RG-IL)
- 670 WMAQ IL CHICAGO, Seems NSP. (RG-IL)
- 790 WFUN FL MIAMI, New address is Box 356, Miami, 33169. (RA-MA)
- 820 WBAP TX FT WORTH, Noted off 0345. (RG-IL)
- 1000 WCFL IL CHICAGO, OC noted 0345-0600 s/on. (RG-IL)
- 1120 KMOX MO ST LOUIS, Seems NSP, as not off 3rd MM. (RG-IL)

All of Roger's stuff noted 2/21 MM.

RCs:

- 4th Sat 1270 KIML WY GILLETTE, per list. (HWBoyd)
- 5th Mon 1580 WRBJ MI ST JOHNS, 0018 wk w/TT/IDs. (HJH-PA)

TESTS:

- 780 WBBO NC FOREST CITY, hrd by Starrrrrrr.
- 850 WIVS IL CRYSTAL LAKE, hrd by Schmidt.
- 1080 KYMN MN NORTHFIELD, hrd by Starr.
- 1230 KAAA AZ KINGMAN, not hrd by Arruda.
- 1250 KHIL AZ WILCOX, hrd by Boyd.
- 1380 WNRI RI WOONSOCKET, hrd by Schmidt.
- 1400 WDUZ WI GREEN BAY, hrd by Starr.
- 1460 CJOY ON GUELPH, tent by Arruda.
- 1500 WKXO KY BEREA, hrd by Schmidt.

SUNSET to MIDNIGHT:

- 560 WPRB MD FROSTBURG, 3/2 fair 1752 w/C&W/ads/IDs. (JK-NJ)
- 580 CKAP ON KAPUSKASING, 3/1 gd 2225 w/MoR/ID, unusual. (JK-NJ)
- 860 WKKO FL COCOA, 2/22 gd 1745 w/s/off. (HJH-PA)
- 910 CHRL PQ ROBERVAL, 2/19 fair 1728 in slop w/FF pgm. (JK-NJ)
- 980 WRC DC WASHINGTON, 2/19 "all nx 98" o/WONE, ID 1908 w/promo for 'KYS-FM 93 disco stereo. (JP-OH)
- 1000 CHEX ON PETERBOROUGH, 2/25 gd 1739 in mess w/contemp mx. (JK-NJ)
- 1090 WKYB SC HEMINGWAY, 2/26 poor 1740 w/contemp mx. (JK-NJ)
- 1150 CHRS PQ JACQUES CARTIER, 2/18 fair 1635 w/FF pgm. (JK-NJ)
- 1150 CHSJ NB ST JOHN, 2/28 gd 1759 w/WM Jack giving ID. (JK-NJ)
- 1170 CFML ON CORNWALL, 2/17 pr 1640 in WBRW null w/FF pgm. (JK-NJ)
- 1190 WANN MD ANNAPOLIS, 2/17 pr 1645 in WLIB null w/Soul. (JK-NJ)
- 1300 WAVZ CT NEW HAVEN, 2/20 gd 1740 w/T-40. (JK-NJ)
- 1300 WMTN TN MORRISTOWN, 2/20 1737 fr w/C&W, unusual. (JK-NJ)
- 1310 WDOC KY ESTONBURG, 2/12 s/oss 1815. (JP-OH)

06

1320 WKTQ PA PITTSBURGH, 2/21 0735 fr w/comm. Computertech+
contemp mx, b'day wishes to Denise. (JT-MD)

1380 WSYB VT RUTLAND, 2/16 poor 1730 w/nx, IDs. (JK-NJ)

KGMS CA SACRAMENTO, 2/15 2023 "You're in tune w/KGMS", faded
up thru KRKO/KBCH. (NH-WA)

KEZE WA SPOKANE, 2/15 2013 promo for ch 2 nx, 2013 1/2 s/off, no
SSB, excellent o/KRKO. (NH-WA)

1390 WANY KY ALBANY, 2/12 s/off 1821 1/2. (JP-OH)

CHOO OH AJAX, 2/12 1829 w/C&W, ID 1832, heavy QSB. (JP-OH)

1410 WHLN KY HARLAN, 2/12 1804, vol. firefighter promo, ID. (JP-OH)

1430 WIRE IN INDIANAPOLIS, 2/12 0825 pr mixing w/2 stns w/C&W. (JT)

1470 WBIG NC GREENSBORO, 2/16 0850 pr mixing SS (w/FAR?) + other
weaker from 0945 on w/college bkb. (JT-MD)

1550 WLOA PA BRADDOCK, 2/26 in barely w/"America", s/off 1800. (SW-MA)

1570 CFOR OH ORILLIA, 2/19 w/church calendar, CHLO QRM, ID 1822. (JP)

1590 WQQW CT WATERBURY, 2/23 1040 gd, fading later w/contemp mx. (JT)

MIDNIGHT to SUNRISE:

560 CKCN PQ SEPT-ILES, 2/17 fr 0000 w/FF nx. (JK-NJ)

770 KOB NM ALBUQUERQUE, 2/28 0300 tent w/EE nx. No ID hrd, but WABC
off, so them or a spur. Some Tequendama QRM. (EG-IN)

880 WCBS NY NEW YORK, 2/28 w/rare ET/TT 0240+. (*-OH)

1230 WINF CT MANCHESTER, 1/31 quick "WINF Manchester" ID 0336. (HJH)

WITH MD BALTIMORE, 2/28 0200-0400, atop most of AM w/inst mx,
IDs noted @ :15 past hour. (RA-MA)

1240 WSSV VA PETERSBURG, 2/28 u/jumble w/wx, mx prob rr 0203+. (HJH)

WJEJ MD HAGERSTOWN, 2/21 ending nx 0504 into MoR. (*-OH)

1290 WNBW NY BINGHAMPTON, 2/21 s/on w/ISSB 0500 o/all. (*-OH)

1326 WLLS MI LANSING, 2/28 ET/OC/FF/mx, ID 0358--rare, usually NSP. (*)

1340 WIZE OH SPRINGFIELD, 2/21 0415-0435+ w/rr o/all. (*-OH)

UNID ?? 2/28 FF dominating this AM; call sounded like CFLS, but
didn't seem //CFLS-1240. (HJH-PA) CFLH?? ECR

1370 WDEF IN CHATTANOOGA, 2/21 s/on 0458 w/SSB o/WSPD. (*-OH)

1380 WMEE IN FT WAYNE, 2/14 ET w/"Silly Love Songs", ID 0258. (HJH)

1450 WHLS MI PORT HURON, 2/28 wk 0150 w/PSAs on RS. (HJH-PA)

1490 CHYM ON KITCHENER, 2/28 atop w/sx/wx/TCs/IDs/mx 0245. (SW-MA)

1500 KSTP MN ST PAUL, 2/28 nice w/tlk, "R. 15", "KSTP, St. Paul-
Minneapolis" IDs approx 0258. (SW-MA)

1560 KPMC CA BAKERSFIELD, 2/28 0230 wk o/Cuba, ID taped. (EG-IN)

KKAA SD ABERDEEN, 2/27 o/Cuba w/C&W, IDs, CBS nx 0200. (SW-MA)

1570 CKTA AB TABER, 2/19 0802-0804 "CKTA Nx", wx into mx poor w/
CHUB nulled. (NH-WA)

CFOR OH ORILLIA, 2/23 0115 w/ET using "Moonlight Feels Right",
s/off approx 0120, "This is CFOR conducting our XR test".

1600 WWRL NY NEW YORK, 2/23 0300 gd w/o WINX w/"This is Don Ross (JT)
WWRL Nx", conversation on phone 955-9984. (JT-MD)

WFRG NC REIDSVILLE, 2/21 s/on-SSB fair thru WWRL OC 0501 into rr
after nx, many jingles. (MD-MA)

WKEN DE DOVER, 2/21 s/on annct before SSB 0503 louder than WFRG,
"Thoughts for the DAY", then nx. (MD-MA)

So ends another volume of DDXD. My eyes must have been bleary while I
was typing #16; as HWB and JS point out, the call for KR's mystery 1600
is CHNR, rather than CHRN. Wes sez the H-N-R stands for Haldiman-
Norfolk Regions.

REPORTERS:

RA	RAY ARRUDA	New Bedford, MA	SX-122, SM-1
HWB	WES BOYD	Retch, NV	Radio
MD	MARK DELORENZO	Centerville, MA	HQ-100, SM-1
EG	ED GEHRINGER	W. Lafayette, IN	TR-305, booster
RG	ROGER GIANNINI	Belleville, IL	R390, 3' loop
NH	NANCY HARDY	Aberdeen, WA	HE-30, SM-1
HJH	HARRY HAYES	Gouldsboro, PA	T-0, SM-2
JK	JOHN KROMKA	Montville, NJ	Realistic
JP	JOE PERGE	Newark, OH	Radio
*	JEROME FUST	Ear Pick, WY	RACAL, etc
JT	JUERGEN TROCHIMCZYK	Hyattsville, MD	XCR-30, loop
SW	SHARON WATERMAN	Southwick, MA	HA600A, loop, LW
ECR	Me	Macon Home for the Criminally	Blond

Thassall for now.....ECR.....

YAD DATE CHANGED:

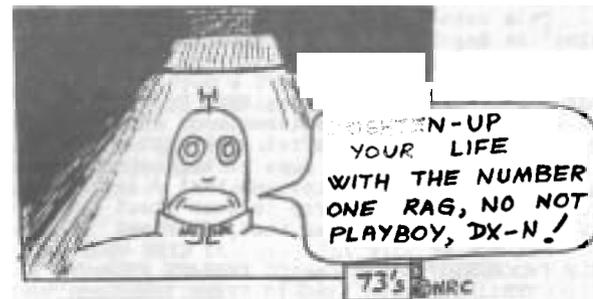
Several weeks ago, my partner in the stock-car operation was felled with
a severe heart attack, then suffered a second one in the hospital. This
unforeseen illness has transferred all the work and responsibility on me
and, since our racing season begins the following weekend, time will not
permit me to host the planned YAD's fourth annual gathering on April 8-10.
I apologise to anyone who had already made plans. The YAD is NOT
cancelled, only postponed to a later date, probably in the latter part
of the year. We will give you plenty of advance notice of the dates. ;
- Jerry Starr

●●●●●●

LATE FLASH TIP.....

WDJZ-1530, Bridgeport CT, a new station will TEST for the NRC on MM 3/28/77 from
0000-0130 EST. No program details are available, but the CE is very interested in
reports. TEST was arranged by Konstantina Rychalsky, per call from Frank Dailey.
V/s is Mike Fast, 39 Salt St., 06605.

●●●●●●



editor: Ernest R. Cooper
5 Anthony St.
Provincetown, MA. 08857

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

STAN MORSS - Route 3 - Bradford, MA - 01830
2/14- WKKO-1500 Berea KY on TEST, and not too easy - XERH & KSTP were quite a bit of competition. CKLM off @ 1, & it was a pleasure to hear XERF again with Paul Kallinger giving ID & Rev. J. Harold Smith - the part owner I believe - saying it was XERP's 30th Anniversary. OHLO, I presume, also there giving plug for Kitchener. Conskry very loud on 1403 1:40 - I hope tape turns out. WTYM-1600 E. Longmeadow TT 2:05. WKIS-740 very strong 2:22am. WWD-1200 AM for one of my nearest 25 unverified, IDES as 3WD, mostly u/CFLS/WGHS/WCOC-test & WBAX I think, among others. Verie, R. Antilles-740. 2/21- WOKO seemingly AN this MM, in answer to 3WD going AN MM no doubt. WOR off; WGHS ID @ 3:10 & strong CJRN. 2/22 - I tried for WKPL-1300 PoP per ERC's tip-call but WKRL too pooped to PoP, I guess. 2/23- On usual "day late" look a TT on 1300 just after midnight - no audible voice or mx through WERE/WFSB & a third that s/off @ 1, so a letter of inquiry sent. Verie from WKKO. I hope the FCC OKs extension to 1800K for BCB & World Conference agrees.

MARTIN FOLTZ - 211 Elvin Court - Lansing, MI - 48912
I just built the loop designed by John Tull out of Tinker Toys and it works very well. It's very easy to build & I'd recommend it to those needing a loop and not wanting to spend days on it. I built it in about two hours. DX: 1/29- WDR-1586 in FF 11:44pm w/MoR. Antibes-1554 in 11:28-12:37am for report. 1/31- WREJ-1580-TEST in good, 12-12:30 am for report. 2/5- WATC-900 tentative on r/c-TT 1:03-1:05am but no ID. KBIM-1400 tentative on r/c-TT 2:45-3, report sent. WIRV-1550 on r/c 3:01-3:08 off, w/TT, OC. 2/16- WFLX-1450 tentative in the mess on r/c 3:03-3:05am. 2/19- WRIT-1340 in w/NIS MX 7:28-7:38pm for report. 2/21- WHSC-1450 f/c tentative w/TT & breaks, but I couldn't pull ID, 12:52-12:59am. WBBO-780-TEST in w/WBHM/Cuban giving them a hard time, 1:07-1:23am for a report, thanks, ERC. Only three veries in, to bring the total to a big 145. v/q- WREJ-1480, Antibes-1554. v/l- CKAP-580. 73s.

PHILIP BOERSMA - 15570 Cleveland Street - Spring Lake, MI - 49456
Not much DX done this week, due to an increased work sked. 2/20- WKKQ-1060 noted c/WHFB w/ID, c/w mx. They had an ad for a store in Grand Rapids, which confused me until I remembered there was a Grand Rapids, MI as well as in MI. This was @ 8:44am. WSIV noted on 11:40 @ 8:46 w/NX. MM 2/21- I slept through most of it. I did wake up long enough to hear part of the KYNN-1080 TEST, from 2:25am to 2:40. They were u/WTIC. Speaking of whom, WTIC, what do you call that talk show they have on Mns? It sounded like "Phone in a corny joke time" or something. Pretty awakening, if you've just awakened. Also on 1/21, WGOR-900 fair on for s/on @ 7am. I then hopped down to 730, just in time to hear KSUD s/on @ 7:02. This wasn't really serious DXing on my part, just some "dial twitching" as I call it. Just goes to show what can happen when fate smiles upon you, hi. Well, I shall return, I hope. (We too!-ERC)

CHARLES GEORGE - 6407 Howard - Dallas, TX - 75227
My latest verifications are: KFI, KSUD, KGVL, KVGB, & KLBJ. I now have 38 stations verified & 21 states heard. I sure hope I can get all 50 states verified. Some of the members seem to really have good ears in that they can hear stations that I can't even hear and I am closer to the stations. I am sorry to hear about EDWN dropping the DX Report. 73s. (Where did you hear that, Charles? It's news here! -ERC)

THERE ARE ONLY TWO MORE "DX NEWS" TO EMANATE FROM THE N.J.P.C.! LET'S MAKE THEM GOOD ONES. DEADLINE HERE IS EVERY THURSDAY THROUGH 3/17/77.

J. W. BRAUNER - R.D. 1 - Box 86 - Punxsutawney, PA - 15767
Seems like all DX here centers around Joe Fela's great new f/c list. Nine new calls logged so far thanks to it. Starting with WHYI-1570, five from KY, first since WKKO was logged as KY fill in 1973. (WYMY was the TT on 950, 2/6, as listed - two definite IDs filtered through the mud here). On second Sat., WGRK-1550 showed up late, 5:44-5:59, TT w/ID at start & end, just missed CBE s/on. Another f/cer logged, WJEB-1350 whose TT barely made it through AMs. Several interesting but unnn stuff noted lately. Early eve Canadians continue showing up. 2/20- W/WWVA nullled, CPFL like local, 5-5:15pm, on 1170, maybe pattern change then. A "WL" showed up, & @ 5:25 WLKE took over for 15 minutes of 100% readable signal, then quickly gone & WWVA took over. 2/23, CHR8 completely covering 1090 @ 5pm in FF including a McDonald ad. 2/24- At 1 am, CBO & WGBI holding down 910 instead of usual WSBA. WKKO TEST heard well 12:25-12:46, interesting program but XERH would be at its best strength of the season! The WKKO story digs memories here. I learned of them early in 1927 when WLSW, Oil City, sent one free, with a report form to send to the next station. I also have hundreds of them, quitting in the early 30's. Many things added up to end their popularity. Far as I know only WHAS has a series of different colored stamps. KFI's sister, KECA, also had a "packard" stamp but with different colors. CKY Winnipeg also had a very colorful "private" stamp. GENO, National Carbon Co. "phantom" call in Toronto used the eagle instead of the usual beaver stamp. Yes indeed, stations took a different view on DX fan mail in those days! One v/l, nice letter from WKKO who were happy with the results of the TEST. 73 & good DX to all.

RAY ARRUEDA - 48 Woodlawn Street - New Bedford, MA - 02744
Work on the North Shore of the state should limit my DXing to the MM TESTS. MM 2/28 was disappointing with CJOY-1460-TEST tentative @ 1:07 w/AM-FM ID. I could not get enough details for a report, even on tape, because everyone seemed to be on - WOKD, WPDQ, WBSB. I did note KSO-1460 Ia. s/off as they surfaced briefly @ 1:02-1:04 for the only new logging between midnight & 4am this AM. EAAA-1230-TEST was tried 2-4 in hopes of picking out the code IDs but no luck as WITE-1230 had the frequency most of that time period. Four v/l's in from WIVB-850-TEST, WRCQ-910, WLKE-1480 & nice letter from Chris Bobbitt for WKKO-1500-TEST. Many thanks to Ted Fleischaker for the recent correspondence, and good luck to the LADS on their publishing endeavors. Also, an appreciative THANKS to NJPC for the hours and hard work in doing such a fine job the past few years. 73.

STAN SHEED - 1433 Fifth Street NW - Calgary, Alberta - T2M 3C1
I received DX NEWS #14 & discovered there are five us us in Calgary. (That's one out of every 100,000). Four in the ERC and one in the other club. Maybe we should get together and form the Calgary counterpart of the LADS - the CADS - hi. 2/24 brought the best Auroral GX of the Winter. I managed seven countries in less than an hour but just tuning from 700 to 780k. Unfortunately no new countries. However, one positive new Cuban on 720 & one highly probable new Colombian also on 720. The Spanish speaking part of the family was out - naturally. The last four days have also brought in a few other new stations including KGAY-1430 signing off just after Calgary sunset on 2/24, CPFB-860 Jan on 2/22 (so close to Alaska), KRED-1480 @ 2:35 & EAST-1370 @ 3, both on 2/26. Incidentally 2/23 was possibly the worst GX of the Winter. I gave up & listened to WWL & even that was not always readable instead of its usual 89 plus. I got a card from a John O which proved helpful. I assume it is John Oldfield. Anyway, thanks Ebbm O! Has anyone heard if CKSW is still going to 570? The change was sked for early January, but I still have not heard them on 570 and at 10kw they should put a good daytime signal in here. Finally, don't forget that Canadian postage to the U.S. is now 12¢ so all you below the 49th, get your 2¢ stamps to include with the old 10¢.

WE DO NOT AS YET KNOW WHEN OUR DEADLINE WILL BE FOR THE FIRST LOUISVILLE EDITION OF "DX NEWS." IT WILL PROBABLY BE THURSDAY, MARCH 3! WE'LL HAVE TO LEARN FIRST WHAT DAY AND DATE THE LADS WILL BE PUBLISHING. BUT, GET THOSE MUSINGS IN AND LET'S MAKE THAT FIRST ISSUE A HUM-DINGER!

JERRY BOND - 143 Burwell Road - Rochester, NY - 14617

Hello again everybody. It's been a couple of months since my last Muse so it's about time I got around to sending in another one. DX hasn't been as good lately as it was earlier in the season, but I'm still hearing a few new ones. Since last time the DX looks like this: 11/20- Two newies around 333 in WDOT-1400 @ 4:41pm & CJNR-900 w/an SID @ 4:50. 11/21- WCHM-1350 in good @ 5:13pm s/off. 12/8- WJZZ-620 in 7:58 pm w/the new call (ex-WETE). 12/11- I stayed up to do some early AM DX & I was rewarded for my efforts with four new stations - KCRS-1600 @ 1:25am WENI-1360 @ 1:37, WAKE-1500 w/ET @ 2:07 & WNCR-1440 in w/beautiful mx @ 2:39. My last logging for 1876 was on MM 12/20 when the WDCR-1340-TEST was heard fairly clearly from around 1:30-2. On 1/3 I got my first logging for 1977 & that was WQIO-1060. Then came 1/8 which turned out to be one of my most productive SSS DX sessions in a long long time. Southern MI, Northern IN & IL just opened up completely & everything from those areas was coming in. New stations heard were WYAM-1330 @ 5:30pm, WIMS-1420 @ 5:31, WRCK-1440 @ 5:34, CKRM-980 @ 5:45, WLOU-1350 @ 5:46 s/off, WJPS-1330 @ 5:51, CJNR-730 @ 5:56, WPHR-1320 @ 6:18, & WBCM-1440 @ 6:32 pm. I never did get an ID on CJNR but they were carrying a local NXCast which was being broadcast on CKMS-930 at the same time & since the log says CKMS relays CJNR I decided to count them. I also heard a lkw station on 1540 s/off @ 5:59 w/calls like WKLS but I can't figure out who it was. That would have been my tenth new one in the space of an hour that particular evening. I really enjoyed Chapter XLII of Notball Memories in the 2/14 issue. When I sent the clipping about the KKKO stamp hobby in I was hoping a Club member could expand on it & explain more about it. I got stamps from KFI & WPHR when I started DXing in the early 60's but I never knew that the use of the stamps was so widespread and that KKKO stamps had put out a stamp album. Thanks to Dick Northrup for the informative article & I want to publicly thank J.W. Brauner also for writing to me & telling me about his experiences w/KKKO stamps collecting. More next time.

ERIC FADER - 23-35 Bell Boulevard - Bayside, NY - 11360

Sun. 2/20 a strange combined opening occurred. CFOR-1570 in well 8:04pm o/u CKLM. UNID female in weirdo language 8:14, u/WBAN, hoos-117 WOTT-1410 o/u WPOP. WOTT never heard before at night, although pattern would seem to indicate otherwise. WBNX-1380 DOES s/on regularly @ 8:30pm Sundays, it seems, so this is a log change for WBNX & WAWZ. (WAWZ's Sun sked is & has been for two decades: 6:30-9am, 11-12:30pm, 3-4:30pm, & 7-8:30pm; all other hours used by WBNX -ERC) CKBC-1360 pinning meter, totally demolishing WDRG would could barely be heard at all, 8:35, unid, & they had some kind of whacky comedy show w/a guy doing stand-up stuff. WFOJ-1320, usually heard only in AU CX, topped that frequency @ 8:41pm. Incredible hot on high side wiping out semi-WIGG-600 8:50. Then, the only newie of the week - OJGJ-920, w/CBC NX o/u WJAR @ 9:06pm. Unid WNDL-1260 ontop w/tele-talk o/WNDR MM 2/21 @ 12:30. Local WOR-710 w/ID/TTS all AM. MoR on 560 playing instrumental jx (junk, not jingles, hi) 1:16, probably unid CKCN. MoR too on 590 - probably unid CKEY. WOLF-1490 on top there 1:58. Also, a TT came on there (1490) @ 1:58, unid. WOKO-1460 as noted by ERG several issues ago, does have a "modified quickie" MM SP as they were on & in RS 2:05. UNID TT-820 2:24-2:30 t/out. I need WIKY there. Joe Ferge, WVDJ-970 IDs as "97-DJ, your voice of inspiration." AT-40 updates and other junk next time - for now, 73a.

JUERGEN TROCHIMCZYK - 5144 15th Avenue #4 - Hyattsville, MD - 20783

Meanwhile busy in accomplishing f/up business: first w/1 from it came already in KHDO-1490. Driving home from work late I usually tune in to a weak station. Trouble is to make notes when driving in the darkness. If it turns out to be a catch I continue to log at home. So I got 2/16 8:50pm, WBIQ-1470; 2/12 8:25 WIRE-1430, 2/23 @ 10:45 pm WQQW-1590, & 2:23 @ 1:15am CFOR-1570 w/RX TEST playing "Midnight Feels Right" before s/off at approximately 1:20, ID, "This is CFOR conducting our XR test." On GW's birthday I made a trip to PA when I actually went out by car to have a walk in a nearby park. Some loggings on this trip: kind of DX by 4:35pm WIGG-1000 poor in Manchester, MD. WX is pleasant now & I hope it will be alike when my parents come from Europe. I already promised tyes a New England trip in May - maybe I can stop by at an NRC-infiltrated house, hi.

CHARLES ZIPSER - 39 Wickford Road - New Rochelle, NY - 10801

After reading the 2/21 copy of DX NEWS I find myself very curious about Bill Bailey's two phased beverages and his reception of two stations (Kuwait and United Arab Republic). I am selling my newly-acquired NRC-FET-Altaz Loop because it doesn't fit in with the rest of my family's interior decorating plans. Oh well - Vat ah ya gonna do! So someone please write in and tell me what this graph business is, and is there any way one can tell when CX will be good? I hope to start building coiled pieces of wood for Beveridge. I am lucking in that my locksmith stores gives me great opportunities to use the electrical and mechanical tools and machines for DX work. I'm selling my SM-2 because at least with homemade wires (and Beveridges) there's always room for change & experiment besides any dummy c build a beveridge so I will at least have accomplished reception of st ons not heard on the loops. It will point West, & terminate on Western de. I think it's terrific that people such as Dario Monferini write in om Milano, Italy. By the way, Dario, what do you listen on?

EARL JETER - 2816 Frontier Trail N.E. - Atlanta, GA - 30341

After a somewhat prolonged absence from these hallowed pages I think it's about time for me to check in again. Not much to report in DX, & even less in veries. February has been dismal, with five new catches & only two veries (three, if I count a "tentative" verie). That makes a total of 28/31 for the new year. Going back to last year, I figured that the overall verie-return total was around 60%. For 1976, totals were 265/114, representing a log gain of 35 over 1975 and a verie loss of 12 from the same year. So, statistics freaks, finally, GRAND totals are now 1,087/715. Whew! On to DX, most recent first: 2/21 SSS, a real surprise, CFOR-1570 in @ 6:35pm w/"Your World Today." MM 2/14, both TESTs heard, WKO-1500 fair w/WSS harmonic on 1500, 12:42-12:44 w/calls, SID & CW ID. WIVS-850 very poor 1:08am w/el mx, not enough for report, as un-ID w/"Radio Bible Class" caused QRM. 2/13- WMOO-1550, unid, ETing 1:22am w/008 mx & complete IDs. WBR-1580 very good w/"Buy-Lo" foodstore ad @ 7:19am, also 2/13. Backtracking to 2/21, WRAE-850 noted weak, 2:44am. That's all the DX, folks - now for a FEW veries: KCLR-1530, v/1 & CW; WPKC-1560 w/PP form & GM for '76 report; WBR-1570, nice v/1 for f/c. The tentative verie from KIKR-1590 for 1/21 DX, where I heard an ad fade up for "Shoals Theatre in Portland" folo by Fashion Shop ad. Checking the atlas, Portland, TX is very close to Sinton, so a tentative report to them brought answer saying the Fashion Store ad was theirs, but not theatre ad. So, I may have had twp stations mixed there. Other station may have been WDEL, Springfield, TN, as there is a Portland near there. Oh well! Nothing like trying to ID a station with the process of deduction and a world atlas, hi! Gotta go for now, good DX.

ERNEST J. WESOLOWSKI - 1416 Pasadena Avenue - Omaha, NE - 68107

Are you thinking of LINCOLN, NEBRASKA for the Labor Day weekend? You better if you know what's good for you! Only three new catches the last half of February - 2/14 brought the signal from WJEB-1350 Gladwin, MI on r/c for their 30-minute f/c. Then on 2/21, the WDUZ-1400 TEST along with the WBO-780 TEST came in. A long list of v/s are included this week. PP/c's came back from a couple of outstanding DX TESTs from last year: WJIC-1510 NJ & WMT-1520 GA. Thanks to John Callarman who typed up the Membership List. Next time John, leave two spaces between the state & the Zip. Broadcasting Yearbook will be out shortly. Cost is \$30. Local KDOO-1420 has applied for 2500w & will add two more towers, w/narrow signal to the NW. I enjoyed the visit of Carl Mann of Cedar Rapids, IA. WTNB-1390, Meridian, MS, has a new GE and is an ex-DXer. Now they'll verify reports. R/c is on the list. I'm looking forward to seeing some of you for an April St. Louis get-together. Yes - I know what's good for me - LINCOLN, over Labor Day weekend. 73a.

PLEASE ADD THESE TO ABBREVIATION LIST:

ID - (station) identification. SID - Singing identification.
VID - Voice identification. OI - (Morse) code identification.
fo - Followed (by) AU - Auroral conditions
PLEASE BE SURE TO INCLUDE RETURN POSTAGE WITH EVERY REPORT REQUESTING A VERIFICATION. MENTION YOUR MEMBERSHIP IN THE NATIONAL RADIO CLUB!

JAMES E. CRITCHETT - 1635 Walbridge Street - Red Bluff, GA - 96080

A second NRC Domestic Log was received here 2/19, mailed from the Publications Center, but no mailing date shown. A page was missing from the first log received, so I kept this second one, and sent payment for it to Gales Ferry, CT. I hope others received theirs. Stations newly received and IDed here since 2/14 include WOKJ-1550, @ 6am EST on 2/15; KRGO was weak, & WOKJ o/KGAR. At 7:01 on 1560, XEVIP s/on for 18 hours, IDing in EE, on 2/16. At 10:30 same morning I heard KHIS-AM & FM on 800, Bakersfield ID; so the two stations that switched have been IDed now. In the opposite direction @ 10:41 KUEN-900, Wenatchee, IDed, on top. Thurs. 2/17 @ 5:46 on 900 again I heard CHML & CKDS-FM ID w/GJVI; at 7:04 CHML NX was announced. Three days out for a trip. MM 2/21 At 3:30 on 610, KFRC was off, & KRKE IDed. At 5 on 1050, CFGP IDed at the end of a PSA. Same morning, with rain coming from the South, three Oregonians were IDed in a short time. At 9:45 it was KATR-1320; then over to 1280 & KBDF, long sought, was on top. At 10:36 on 1290, KLIQ IDed w/KHSL. I tried for the KSCB-1270 f/c 3:15-3:30, but not heard. I'm not saying it was not on; I just couldn't hear it (fourth Tuesday, 2/22). I parked on 1240 from 9:24 to 10:45 & heard KROY several times, KPOD once @ 9:43, KSUE in clear @ 10:30 & KTIK twice @ 10:45. This morning, Wed. 2/23 on 1340 I heard KSET folo by KMAK @ 5:33 & KATY @ 6:26. At 10:01 KJJJ surprised me o/KNEW-910 with full ID. KJJJ was #443, so I should reach 450 before long. I expect to continue DXing and reporting. Join me, DXers, and keep Ernie busy. 73s. (Yes, Men of the West - get it off your Chest - MUSE! -ERC)

THOMAS H. BULL - 2544 Naylor Road S.E. - Apt. 202 - Washington DC- 20020

Here we are again, in case you are short of material. The Gods have been good to us the past couple MMs as fa as the TESTs go. On 2/13 we snagged the WNRI-RI TEST. I didn't really need this one as we have him logged previously, but didn't have him on tape. Lot of interference from the church station in NYC, & some from WTVR, but he made the trip OK. That was a wild tone sweep he used at the end. On 2/14 we snagged the most welcome TEST on 1500, WKXO, KY & just received his v/1 today as a matter of fact. I had expected trouble from either KSTP or "Big Dee" but I didn't hear a sign of either until about 12:49am. The Mexican was the big pest here, & as far as I can remember, this is the first time I've got a good log on him. Also the WIVS-850 TEST, another most welcome addition to our logs, a first for both the log & tape. We wait for his verise. KOA was a bit of a problem until their s/off. I don't know who caught him in San Francisco, but that's a pretty darn good catch. On 2/21 WBBO NC showed up on 780, another newbie for both log & tape despite WBEM & the Cuban. We did strike out on the WDUZ Green Bay thing. I don't know if he was on or not. KYMN-1080 was another most welcome addition to the log & tape collection.. We caught him on tape w/a power as low as 100w! We called him @ 3am to thank him for the TEST. I don't know if he mentioned the call or not as the Hartford sick-joke station made copy pretty rough at times. Now let me set the scene for this next episode. I have the cassette deck plugged into phone jack of RX, phones into cassette deck. We have WCKY-1530 with OC, I can hear station in background, very weak. We suspect this to be KFBK CA & don't have a CA station as yet on tape. We have to crank gain of the tape deck full-on to bring him up to tape level because of the OC, right? Every thing is fine, then WCKY puts a TT on. Phones go one way, ear drums the other. Needles on WU meters wrap themselves around pins several times. Despite all this we got a nice station break @ 3 on 2/14. We had been contemplating retirement, but forgot how to spell contemplating. I'm still thinking about it though. (DO IT! -ERC) Maybe by the time another season rolls around we will be back in MN & a much better receiving location. So until next time, take care. Our thanks to the CPC gang & Ernie, many thanks. Let's have more memories-goodies from the elderly types. Forest (seventy trees?).

JIM AYERS - 2847 Woodside Drive - Jackson, MS - 39212

Well, it's time for another Musing from the Magnolia State DX Addict. CX are good in MS as of late, but the CX are changing back toward Summertime reception all the time. My biggest headache is Cronkite NX on the color TV until 7:30 each evening. It provides constant QRM

(Ayers) to my DXing and attempts are futile to get the TV turned off earlier. I can't wait for the timechange and longer days to put SSS DX-ing after Cronkite. Well, hopefully on the brighter side is my most recent DX: On 2/4, three newies @ 6am, consisting of WLCG-1240 FL; KARV-1490, AR; and KDMO-1490 MO, all three w/s/on. On 2/6, I logged WTEJ-1090 FL @ 5:30pm w/KAAY. Not much on MM 2/7, just KRIG-1410 TX from 1:15-1:30am after WUNI s/off; then WDAK-540 GA (finally) at about 1:50am. On 2/8, I got up to DX @ 5am, and heard KWHT-1320, AR, ETing or f/cing @ 5:05am w/IDs generously given every 10-15 seconds. Later, @ 6, I bagged WKJK-900 NC w/s/on. 2/11 brought WBOX-920 LA @ 5:10pm. Then on 2/13, CBK-540 Sask. boomed in L&C after KNOE s/off until their own s/off @ 2:05. 2/14 brought no valentines, but two newies on 1530 - KGTV TX w/s/off @ 7:15pm, and KCLR TX @ 7:30, s/off both of these strong u/WCKY. That rounds it up for now. 73s to all.

TED FLEISCHAKER - 3023 Tremont Drive - Louisville, KY - 40205

It's been a while since my golden words have graced these pages, so I thought I might at least send in a short Muse. Not too much time for DX the past few weeks as I have been helping my dad out in the furniture business. What time I have has been almost all MMs, & I had some fair TEST results in. The KYMN TEST of 2/21 was very loud here, & even heard the signal well on my portable, which I got out for the occasion. I also did hear some TT from them when they announced they were dropping to FIVE WATTS, which is my best-ever reception here. I have also been logging a few others, including WRAB, Arab, AL, which I heard after telephone tip from Pat Hartlage of the LADS. They were on w/emergency broadcast 2/23 due to severe WX there. I am interested also in some air checks, especially of beautiful mx FMs and will swap any Louisville area checks for some of these. If anyone out there is interested, I have cassette equipment in stereo, so drop me a line. Not much else to report - I enjoy the Mothball Memories, Ernie, & I don't see how you find something for every week - a tough job indeed! Best to all and good DX! By the way, just because DX NEWS is moving HQ to Louisville doesn't mean you can stop Musing - let's hear from the rest of youfolks!

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

I'm way overdue to Muse! 1/31- 12:15am WRBJ-1580 MI very weak on TEST. 3:02, HJKA-540 good signal w/Horizonte ID & EL mx. 3:36, WINE-1230 CY breaking through. 2/7- WOKO-1460 now noted AN MM. WBRN-1460 MI tentative on ET @ 12:25. 2/8- 2:03am, WSSV-1240 VA on RS w/T-40. 3:05, CFLS-1240 w/announcement in EE to send comments to station on programming. 2/11- AU CX, unID-930 SS atop @ 9:45pm. 2/14- 2:45am, WMEE-1380 IN, tentative on ET. 2/16- WCMI-1340 KY AN @ 3:10, rr. Colombians strong tonight byt oddly enough, Canadians strong also. 8:30pm HJZW-1200 "R. Almirante" very strong. 9:03 HJOP-1010 "Sutatenza" weak u/WINS/CFRB. 9:33 HJCY-810 killing WGY. 2/17- 1:25am KIOA-940 IA w/rr, first time heard. I had a very nice visit from Glenn Jacobs of nearby Taylor, PA. He brought along his R-390A to try in a quiet location for a change. Best of all he left it here for me to try out for a few weeks. It's quite a contrast from his downtown location since I have absolutely no neighbors around w/TVs, line noise is low & I am extremely high, altitude, that is. Unfortunately TA reception from his visit to now is on the low side, LAs too. Some interesting things heard on the R-390A: 2/17- 11:20pm KFI-640 in w/fair signal. 2/18- XEMO-860 religious mx @ 2. RNE-683 in most nights w/weak signal, best 2/17 w/ID around 9:30. Rome-445 suspected @ 8:30. 2/19- TWR-1466 Monaco w/GG @ 12:10, s/off 12:15. 1:50, WOKJ-1550 MS weak w/soul. Day DX showed WFRM-600 PQ in @ 1:30pm w/good signal & WADS-690 CT extremely weak @ 2. MM 2/21- UnID-566 w/mx @ 2:30, I suspect Ireland at this late hour. 3:31, KNX-1070 blasting u/WIBC w/NX. 2/22- 5:45pm WFMO-860 NC w/AT40 promo, good. 6:15 WKKO-860 FL, fair. 2/23- St. Vincent-705 @ 7:30-8:30pm s/off in EE & MoR, no ID heard, but who else? 2/24- 12:30am Nice-1554 w/FF vocals, R. France ID. WDR-1586 in strong like its old usual self. Strong audio on German-1602. 2/26- 12:05 am unID-1475 w/TT, I suspect Austria. 12:15- TWR-1466 blasting & concluding GG program, then off. Vatican good @ 6:20pm producing strong bet on WCKY, no ID heard, which I'd like to get before he moves up to 1530. WE NEED SOME MORE CONTRIBUTIONS FOR MOTHBALL MEMORIES, GUYS! WHAT SAY?

ED GERRINGER - 820 Graduate House West - West Lafayette, IN - 47906

I wish I weren't sitting here writing this Musing. I'd rather be at the DX get-together at Charley Taylor's in Indianapolis, but the WX intervened. Just as I got ready to leave earlier today, it started snowing pitchforks. (I'd call it a blizzard, but there wasn't any wind.) It was nearly impossible to get up hills, & I didn't relish the prospect of going all the way to Indy at 30 mph. On the other hand, it's all my fault. I could have left an hour earlier and things would have been OK, except for the fact that I lacked the common sense not to DX at 3:30am this morning. I had just returned from the remnants of a party, & things looked promising on 540, so I decided to listen. Sure enough, the little TRF-cum-passive-booster netted a neat little JX, "Tropicana, la emisora de la Juventud", for WCFM2, Guayaquil, my first Ecuadorian at this location. They were coming in quite well for about five minutes, with no trace of WDAK or HJKA. Their DJ-style of programming contrasts with HJKA's wall-to-wall mx, & I was pretty sure I'd heard snatches of their programming several times earlier this season, but never a clear enough ID. For some reason, they seem to be a juch easier catch back home in Birmingham, MI. For one thing, WDAK is much weaker there, so Tropicana's only competing with one pest, not two. They also seem to skip in a little better up there. That catch raises totals to 20 countries, 35 states, seven provinces. Very few are verified - I'd rather listen than write letters, hi. A lot are taped, though, & I'm toying with the idea of making up a DX tape at the end of the season like Mark Connelly did last year. It wouldn't be quite as interesting as his from the standpoint of stations heard, but other DXers might like to hear DX in hi-fi. The Grundig portables (and perhaps even the TRF) are blessed with much better audio quality than an R-390. Another specialty of mine is national anthems; I could include about a half dozen taped off-the-air. By the way, thanks to Mark for the letter and prompt reply to my request for a copy of his tape more than four months after his offer appeared here.

HARLEY E. STEWARD - 4220 French Street - Erie, PA - 16504

814-864-3440. I have been DXing for almost five years now with the assistance of my wife, Marion. We have our Hammarlund Super Pro with its 3' homemade loop antenna at bedside with stereo phones so we can DX any time of night without getting up. We have 47 of the 48 contiguous states with verifications received from all. Idaho excludes me. Sharing them with you, they are: AL - Dothan WOOF-560 12/74 & Tusculumbia-WVNA-1590, 1/77. AZ - Wilcox-KHIL-1250 1/77. AR - Little Rock KAAV-1090 3/73. CA - Los Angeles - KFI-640 3/73. CO - Denver KCA-850 5/73/CT - Hartford-WTIC-1080 2/73. DE - Wilmington-WDEL-1150 4/74. FL - Miami-WQBA-1140 2/73. GA - Atlanta-WSB-750 6/75. IL - Chicago WMAQ-670 12/72. IN - South Bend-WJVA-1580 3/73. IA - Des Moines-WHO-1040 4/75. KS - Topeka WIBW-580-4/73. KY - Louisville-WHAS-840 6/75. LA - New Orleans WNOE-1060 3/73. ME - Portland WGNZ 11/72. MD - Baltimore-WCAO 7/75. MA - Boston WBZ -1030 2/73. MI - Detroit WJR-760 9/74. MN - Minneapolis-St. Paul WCCO-830 9/74. MS - Amory-WAMY-1580, 1/73 & Houston WCPC-940 2/73. MO - St. Louis KMOX-1120 7/75. NH - Portsmouth-WHEB-750 3/74 & Hanover WDCR-1340 12/76. NJ - Morristown-WMTR-1250 8/75. NM - Albuquerque-KKIM-1000 2/73. NY - New York WABC-770 9/74. NC - Murphy-WKRK-1320 1/73. ND - Jamestown KSJB-600 5/73. OH - Cincinnati-MLW-700 1/73. OK - Miami KGLC-910 4/73. OR - Portland KEX-1190 1/74 & Klamath Falls KLAD-960 11/76. PA - Pittsburgh KDKA-1020 1/73. RI - Providence-WJAR-920 1/73. SC - Columbia-WIS-560 2/73 and Lancaster WAGL-1560 1/73. SD - Sioux Falls KSOO-1140 10/73. TN - Nashville WSM-650 11/75; TX - Dallas-Ft. Worth WBAP-820 7/75 & San Antonio-WOAI-1200 9/75. UT - Salt Lake City - KSL-1160 7/75. VT - Springfield-WCFR-1480 1/73. VA - Richmond WRVA-1140 10/73 & Alta Vista WKDE-1000 3/76. WA - Seattle-KOMO-1000 4/75. WV - Wheeling WVA-1170 1/73. WI - Milwaukee - WTMJ-620 11/74 & WY - Cheyenne-KCHY-1530, 3/73. 73s, best of DXing in '77! (Welcome to the NRC, Harley, & let's hear from you often for Musings! -ERC)

PAUL MOUNT phones in his new address, and here 'tis: Paul Mount - 108 Farnald Hall - Columbia University - New York, NY - 10027.

AS WE DRAW NEAR TO THE END OF THE WEEKLIES AND THE REIGN OF RUSS EDMUNDS and BOB STONIER, WE SALUTE YOU - THE TVET - FOR GREAT SUPPORT OF MUSINGS. THE LADS WANT US TO CONTINUE, BOYS, SO LET'S KEEP ON MUSING REGULARLY!

PHILADELPHIA PHILLIES' BASEBALL NETWORK, from JOE FELA.

Chambersburg	WCHA- 800	NEW JERSEY	
Easton	WEST-1400	Atlantic City	WFPG-1450
Gettysburg	WGET-1320	Princeton	WHWH-1350
Hazleton	WAZL-1490	Millville/Vineland	WMVB-1440
Lancaster	WGAL-1490	Wildwood	WCMC-1230
Lebanon	WLBK-1270	DELAWARE	
Lewistown	WMRF-1490	Milford	WTHD- 930
Lock Haven	WBPZ-1230	Wilmington	WDEL-1150
Mexico	WJUN-1220		
Philadelphia	KYW -1060	Joe sent in the PHILLIES PHAN-O-GRAM,	
Pottsville	WPPA-1360	Vol. 2, Number 2, Feb./Mar. 1977, from	
Reading	WEEU- 850	which this information was gleaned - right	
Shamokin	WISL-1480	from the horse's mouth, you might say. KYW	
Wilkes-Barre	WBRE-1340	is the flagship station this year, ex-WIBG.	
Williamsport	WRAK-1400		

MOONBALL MEMORIES. CHAPTER XLVI - THE CALL OF THE PHANTOM

In the early 30's, several stations had different calls to use when they were testing. There was WSYR-570 of Syracuse, NY, which went by WSYU when conducting tests. And by the way, they used to share time with WMAC in Cazenovia, NY! We devoted one chapter to the unusual "numbered" USA calls, and now, does anyone remember WBOQ? Right, I heard somebody way back in time say - the phantom call for WABC (now WCBS), not to be confused with the present-day WABC, ex-WJZ. To my knowledge, the WBOQ call sign was used only ONCE in the 30's, and that on a special DX program conducted by the late PHIL NICHOLS, of the NNRK & NRC, known as "The Old Potato" in his day. He had the fascinating job of being a prison guard who worked 7pm to 7am in those Depression days, and six days a week it was, too. Well, Phil got permission from WABC to run a DX program and use the WBOQ test-call, which he did - the letters "WABC" were never referred to throughout the entire program, and I feel sure this was the last time that set of call letters was ever used. There were some old share-time s with now familiar fulltimers, like: WBBM shared time with a WJBT (ONE NIGHT WBBM'd be on; next night; WJBT). And WMAQ, also of Windy City, shared with WQJ. And, WLS divided time with WENR-WBCN, the latter set of calls being the test calls for WENR. If they were ever used on the air, 'twas not my good fortune to have heard them. And, to conclude, WHN shared with three stations: WRNY, WPAP, & WQAO. NEXT WEEK: BACK TO THE LIGHT SIDE AND CARROLL SETH.

ERNEST R. COOPER - 5 Anthony Street - Provincetown, MA - -2657

There are four more veries in my grubby little fingers this week, from WCOW-1290, Munich-1602, Mi Amigo-1562, & La Voz de la Heretica-1170 (Christmas reception u/WVVA). Total: 4,030. WCOW mailed 2/23, back in on 2/28! DX, on the HQ-180 #1 and SM-2: Sat. 2/26 - Moor-side Edge-692 in, but not well enough for log, 2:10. I found him too late, alas. TTer on 900 u/Canadians 2:33-2:35 & on, unn CHIC giving WEAN -790 fits on AN. SM 2/7 - UnID FFC topping 1450 3:13-3:20. I stopped on 1070 to listen to a TT & it's good I did for it turned out to be needed WTSO, WI, testing their day pattern; reported. On 1530 in the late afternoon, I heard 'entoo - WDJZ, Bridgeport, CT, testing" w/OC & occasional announcements. I don't got no address for this one, doth anyone else? MM 2/28 - TTer on 1400 @ 1:12; unn WAOK-1380 on top @ 1:19 o/WBNX & a TTer. TT-1360 @ 1:20, 1:21 one on 1340, 1:24, another on 1280, and 2:16, TT on 1230 - all unID. WCBS & WABC were off today. R. Mundial-860, Brazil, really a whopping great signal @ 2am-ish! Also, a Brazilian on 880 battling Cuba, this must have been unn R. Inconfidencia, long time since I've heard that one! 3/1 - I tried for r/c of WIOS - not heard. 1:06, WDKR-1560, unn, s/off cold. On 1560, old (friend?) KKAA back in for first time since a year ago when I last reported, unsuccessfully. WCKY was off. 3/2 - WCKY off till around 3, then back to RS. I spent an hour trying to ID the TTer gumming up WNEV's mx, and was successful in IDing WAGA @ 2:57, unn, as I have him verified from 1370k in '39, hi. Both WKBW & WCKY were off! KOMA & Minuto held forth well, no sign of WGOR, OH. This on 3/3. The Cuban slipped offa 780 to 785 & had awful modulation today! WFBG-1330 atop

JUST HOW DOES ONE COMPARE RECEIVERS AND WHAT DOES IT MEAN ???

It seems that recent comments in DXN about the ~~Dynal~~ DR-22 and Yaesu FRG-7 have prompted a bit of a controversy. Mail on both sets of comments has been generally in agreement, but some has been received in opposition. As noted last week, product summaries are provided to superficially acquaint the prospective purchaser with some idea of the potential of the product reviewed. Actual user reviews or comparisons are to give a DX'er a good working view of what the item will or will not do. Somewhere in between is the sort of casual comments often contained in Musings.

Our feeling is that any information which we can provide is good, assuming that it is neither grossly inaccurate or intentionally misleading, inasmuch as knowledge of a product is highly advantageous to the buyer.

There are, however, certain problems. A product summary must depend upon that information which can be readily obtained, and more often than not, this is advertising material, technical reviews, or specifications provided by the manufacturer. Thus, an engineer in the manufacturer's employ can "wax ecstatic" over the equipment, and it may still not be worthwhile. Specs may help, but they do not necessarily prove out to be entirely accurate beyond the parameters of the test circumstances. What counts, for our purposes, is how the thing performs in context, namely, in applied BCB DX. For these purposes, then, it may be seen that any DX'er who has experienced a number of receivers, and has DX'ed BCB a few years, is reasonably competent to evaluate its performance in non-technical terms.

Also important is what type of a comparison is made. There are numerous different types of receivers: portables, communications receivers, AM-FM's, ECB-only, etc., and there are obviously overlaps. Some will insist that comparisons must be made only within the particular type and subtype. For an accurate, scientific comparison this is true. In our case, though, we are interested in how the receiver compares to some generally-known and generally-accepted criterion. Portables are generally compared to the Realistic TRF, which is the most popular and very close to the best of that genre. Communications receivers are compared to the "state of the art BCB rig", the HQ-180. Sometimes other standards are used, if they fulfill the two criteria noted above. Likewise, multiband portables may be compared to the Grundig line, although this is less widely known.

If a multiband communications receiver is compared to an HQ-180, it is not because it will fall short, but rather because most DX'ers know something about an HQ-180, even if all they know is that a large number of DX'ers use them, and hear good DX on them. It is a standard, and thus, comparisons can be made which are meaningful to the DX'er.

A cursory examination of receiver performance, compared to a known standard of reference, by a DX'er who fits the bill noted at the outset, will be worth more by far to the DX'er who is a potential buyer than will a product summary, a spec-sheet, or an advertisement. Why? Because it suits his anticipated application.

Along the same lines, there are other sorts of standards relating to what a rig is designed to do. Some are designed to cover many bands adequately. Others are designed for one band or band group only. Others are designed for listening, and not DX'ing. While it is useful for us to know what the receiver is designed to do and not do, the value of a comparison to a known standard is not diminished by this, because the fact of what the receiver does do is more important than what it is designed to do. Many DX'ers hear about a rig, and start to wondering about it. Hearing what is or is not designed to do is useful, but not as much so as knowing what it will do.

A receiver which is designed to compromise between two disparate considerations, in this case, high-fidelity and DX; or, in the case of the Barlow-Wadley XCR-30, between large band coverage and portability and DX; must, by necessity, be just that -- a compromise. The nature of such a compromise is to detract from each in order to serve the other, and, in general (although not necessarily always) the result is a sacrifice of each of such proportions that neither is served more than adequately. This is the nature of the beast, and, given its intent, it does fulfill a purpose, but that purpose is not necessarily that of a good BCB DX receiver.

Thus, in the optimum, we should know what a receiver is designed to do, and also what it does do. Either one is informative and helpful; we have noted a preference between the two; and both would be best. As publishers, we strive to publish the most information in this area which we can, which is severely limited by what is submitted to us. We have asked for info on various rigs, and, receiving none, have had to wait for it. In some cases, it never comes, and in others, cursory comments are all that is available. Inasmuch as these have intrinsic value to the DX'er, we run them, and make references to them in answer to members' questions. That's why if we know that a rig is not a particularly good BCB DX rig, we say so, even if we must rely on comparing it to something which is "out of its class".

In closing, we justify our position simply, and to do so we quote member Randy Tomer, who said in a recent card: "Why spend \$300 on a (deleted) when you can have an HQ-180 for the same price or less, given the former's drawbacks?" We think that says it all.

Again, we suggest that those of you interested in purchasing rigs consult the NRC Receivers Manual, for comparisons/reviews; reprints for same; "Ham Trader" (the radio classified pages, available from A. L. Brand, WA9MBJ, P.O. Box 311, Spencere, IL 60178) for locating it (the most recent issue had such rigs as HQ-180, R-390A, SP600 at reasonable prices); also "Buyers and Sellers" (sample copy from Dept. YC, P.O. Box 73, Kenmore Sta., Boston, MA 02215) for same; or for brief write-ups of many older rigs including tube #, coverages, conversions (in the tuning stages, originally, not add-ons, hi) year of manufacture, etc., order one of Ham Trader's Equipment Buyers Guides, described in each issue of HT. You might also place a "wanted" ad in NRC's own DXChange or in HT or B&S.

Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656, is offering a modification for the Yaesu FRG-7 for improved selectivity in the form of substituting the existing filters in favor of a 15-section ladder filter, which improves the tested specs between 33 and 40 % (est.). The price is quite reasonable, and the offer applies only to rigs sold by Gilfer unless special arrangements can be made.

Regarding the graph of the f_{pr} : Our new source of information takes its data from what is called "preliminary measurements and calculations", and there are often differences between these readings and those we receive from the old source on a monthly basis, generally at least two months late. Thus, the values represented in the graph, while usually identical to those published later in JGR and other sources, may show differences. It should also be noted that neither source is always in agreement with the values broadcast over WWV either. As we receive the later records, we will be correcting the graph accordingly. The graphs as they stand, however, use the preliminary figures in order to keep the current data in DXN. Variations are small anyway-RJE

Most readers of DX NEWS foreign sections are now aware of the existence of the superpower Chinese transmitter on 1525 kHz. at Urumchi. Likewise, we are aware of the existence of two major Russian transmitters on that frequency at the present time, Khabarovsk, carrying the Far Eastern Service, and Moscow, carrying the Majak Service. At various times, many other transmitters have been hypothesized here. In 1973, Bob Bundy, a former member DX'ing from Truk, in the Caroline Islds., noted the Chinese as "Peking" and the FES Russian as well in IDXD. Gordon Nelson, passing on info from Bengt Ericsson, also in IDXD, noted a transmitter in the area of Krasnovodsk on 1529 kHz in 1974. A station running FES was also suspected on this frequency, but never completely confirmed.

Page Taylor, then vacationing in Scotland, noted the Moscow transmitter and the Chinese on 1525 in 1972. Several DX'ers on the West Coast have reported the Russian FES transmitter, and tentative receptions of the Chinese since 1973.

In mid-1971, the first reported reception of Urumchi appears from Page Taylor, quickly followed by one from the author. During the period from its discovery up until the present, the following DX'ers, per IDXD reports have definitely heard the Urumchi station:

- MASSACHUSETTS: G. Nelson, R. Moore, W. Grant, M. Connelly, M. deLorenzo
- PHILADELPHIA AREA: J. Poterba, B. Dangerfield, T. Sundstrom, R. Eckman
- BALTIMORE/DC AREA: A. Murrinen, M. Zahner, M. Levintow, D. Burns
- NEW JERSEY: (North) P. Taylor, R. Edmunds, E. Kocsan, R. Stonier
(South) R. Hoffman
- LONG ISLAND: R. Foxworth, L. Brodsky

Tentative receptions have been reported by Jeff Falconer in Ontario and Carl Junker in Dayton, Ohio. The 1529 station has been noted by Moore, Edmunds, Taylor, Foxworth, and Levintow per IDXD. The Eastern Russian FES has been noted, without ID in IDXD by Foxworth, Levintow, Nelson, Edmunds, Taylor, and Hoffman.

In late 1973 and early 1974, this author prepared a lengthy article, prompted by the first of these receptions, exploring the likelihood of such receptions and the possible explanations for them. At that time, a map was used to designate those areas where receptions of stations at Urumchi might be expected to be noted in the Eastern U.S. It is interesting to note that all of the definite receptions of the station at Urumchi, as well as the FES Russians on 1525 and 1529 have fallen within that predicted area, and that the two tentatives are near the edges of it.

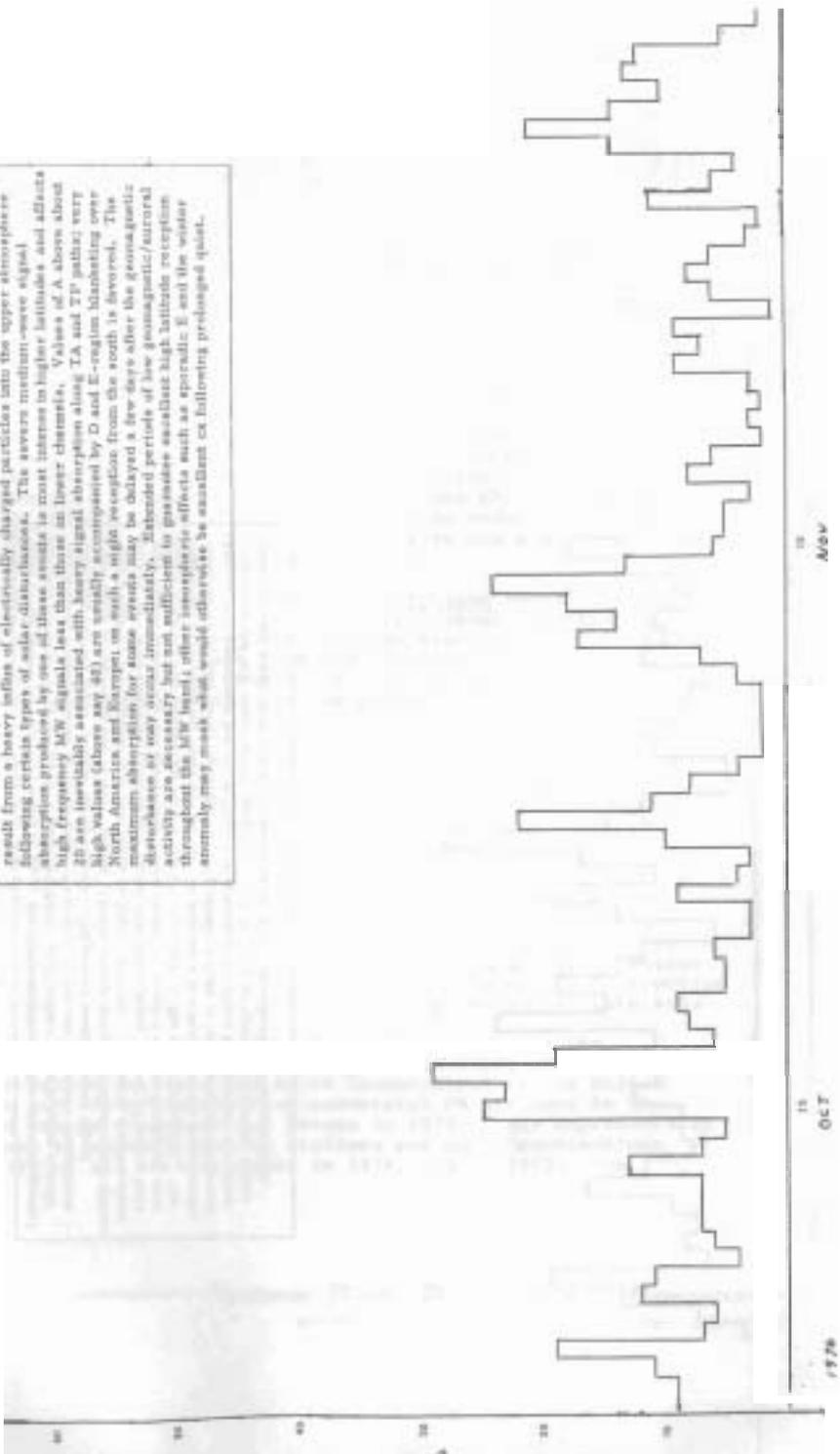
Despite these facts, little has been heard of the 1529 transmitters since 1973, and only Urumchi has been reported since 1974. No other trans-polar receptions have been noted. Recent info indicates the probability of another Chinese at Urumchi on 1335 kHz. (approx.). The 1977 WRTM indicates several Eastern Russians which might be possible, although these would be likely also only in mid-winter. Some East-Central Russians, however, within about 500 miles of Urumchi might indeed propagate in a similar fashion, given sufficient power. As of this writing, none of those listed approach Urumchi's power, although the strength of that one is such that we can assume that somewhat lesser power might make it also.

There is one remaining possibility, however, relative to Urumchi, and that is that inasmuch as it is pretty much generally accepted that this is a Foreign Service transmitter, and inasmuch as it transmits primarily Russian language, it is entirely within the realm of probability that this transmitter may in fact be directional in a generally northerly and northwesterly direction, thus accounting for its rather singular receptions in North America and Europe.

Urumchi is audible throughout much of the year, whereas the Russians were not. It isn't too late to shed some more light on this this season, and the author will be again looking for this one and others somewhat more systematically next fall. Let's hope that others will be able to add some additional loggings to the picture, and that we may be able to add others to the list of trans-polar receptions. When the 1525 signal is strong, that's the time to check the other frequencies for Russians and Chinese via the Pole.

*** RJE

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



NRBA "SPECIAL REPORT"

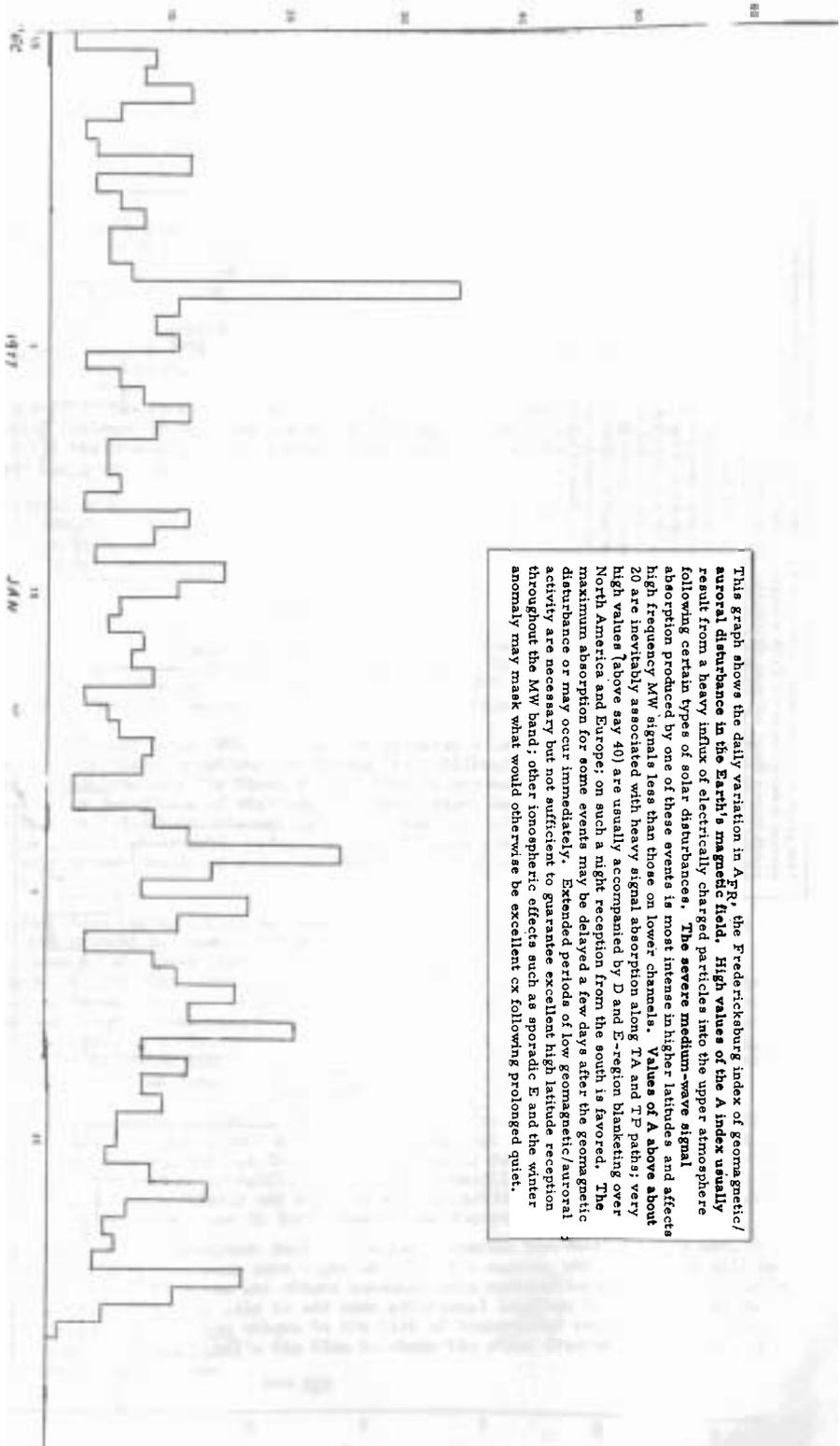
February 23, 1977

If there's one thing the American public has plenty of it's AM radio stations and if there's one thing the radio broadcasters of America don't need it's more AM stations. But there is presently under consideration by the FCC, in preparation for the General World Administrative Radio Conference, a series of proposals to expand the AM band, perhaps from 525 khz to 1805 khz and/or to reduce channel spacing to 8 or 9 khz in order to increase the number of available AM channels. (ocket No. 20271)

On February 7th, NRBA filed comments opposing these proposals but, much to our surprise, another broadcaster organization filed comments supporting the proposed expansion of the AM band. Below are excerpts from the comments our General Counsel filed with the Commission. We think they constitute a compelling argument against the proposal.

1. The NRBA opposes any such action. An increase in available AM radio facilities in the United States will only serve to increase competition which has already reached a destructive level in many radio markets and will ultimately serve as a detriment to the public interest it is intended to promote. Therefore, the NRBA urges the Commission not to propose allocation of any additional spectrum to AM broadcast service, or at least to propose any such allocation on a shared basis, so that the frequency may be put to a non-broadcast use in the United States. The NRBA further asks the Commission not to propose reduction of minimum channel spacings in Region 2. An increase in AM radio station would result in destructive levels of competition and would not serve the public interest.

2. Broadcast financial data for 1975 released by the Commission in November, 1976, reveal that fully 39% of commercial AM stations and AM/FM combinations in the United States and 59% of independent commercial FM stations in the United States sustained net losses in 1975. This represents an increase in unprofitable AM stations and AM/FM combinations from 35% of all such stations in 1974, 31% in 1973; the



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

percentage of FM stations which are unprofitable remained approximately constant. Further, another 19% of AM stations and AM/FM combinations made \$10,000 or less in profit in 1975. Thus, over half of the commercial stations are either losing money or are only marginally profitable, and the trend is for more stations to lose money every year. With such a financial situation prevailing in the industry, it is hard to see how additional AM stations would be able to survive, particularly if they were assigned to new frequencies not presently receivable on the radio receivers owned by potential listeners.

3. In view of these facts, the NRBA submits that there is simply no need for additional AM stations. While in the abstract it may be in the public interest to increase the number of broadcast services available to listeners virtually to infinity, in reality such a goal is technically and financially impossible of achievement. Only a finite number of radio stations can support themselves financially in any particular radio market. The addition of new stations on a large scale basis would not necessarily result in viable new service to any significant extent, since many of the new stations would simply fail, or by succeeding would drive existing stations out of business.

In fact, the creation of additional AM stations might very well result in a detriment to the public interest. Where a new station is able to stay afloat in a market, the increased level of competition for advertisers will lead to a reduction in revenues, inevitably many will have to reduce costs by cutting back on the expensive staff and resources necessary to produce high quality local news and public affairs programming. Thus, where programming services are ostensibly increased, valuable public service will often undergo a net decrease.

4. Further, if the Commission's hope is to increase the availability of broadcast facilities for minority groups, increasing the absolute number of AM facilities available would be an extremely ill-advised way of doing so. Minority group broadcasters obtaining licenses for such facilities would be handicapped from the start by having to compete for revenues and listeners against existing stations with established audiences and revenue bases. If the Commission chose the alternative of expanding the AM band, these broadcasters would also suffer the disadvantage of operating on frequencies which could not be received on the radios of most potential listeners. As the Commission is aware, it has taken both FM radio and UHF television years to establish themselves, at least in part because the potential audience did not quickly replace their existing equipment with equipment capable of

receiving such stations. During the years it might take for listeners to buy new radios with an expanded AM band, many stations on the new frequencies would fail. Such operations would have a far greater chance for survival if they were established by purchase of existing stations rather than creation of new ones.

5. In short, the overall detrimental effect on the public interest of an absolute increase in the number of AM stations in the United States would far outweigh any speculative benefits which might result. Further, as set forth in more detail below, even a marginal increase in benefits to the public interest obtained by increasing the number of AM stations would be offset by the technical and practical difficulties presented by the two proposals.

6. Realistically, there is no need for additional AM radio facilities in the United States. Establishment of additional stations would lead to destructive competition, the methods proposed for creating new channels would be financially burdensome to listeners and/or stations themselves, and the task of effecting change (at least in the case of the proposal to reduce minimum channel spacing) would be monstrously difficult and time-consuming. The Commission should propose neither the allocation of additional spectrum space to AM broadcast service nor the reduction of minimum channel spacings in Region 2. At least, if additional spectrum space is to be allocated to broadcast service in the International Table of Frequency Assignments, such an allocation should be made on a shared basis, so that such spectrum space may be used for other purposes in the United States.
