

dx news

the magazine of the National Radio Club



VOLUME 41

NOVEMBER 5, 1973

NUMBER 4

"Your quote could be here if only
you'd say something quotable..."
-NJPC

ON THE INSIDE.....

Modulation Arcing - Jerry Starr, reprinted from an elder issue of DXN
Annual State of the NRC Message - RjE
Behind the Pirate Radio Ship - Bergen (NJ) Record
Simplified Great Circle Computations - Fish
Verie-signers, clippings, and somewhere in here some columns.

NEW MEMBERS THIS ISSUE

Ed Sebolt - 12801 Cove Rd., Harbour East Village, Chester, VA 23831
(rejoins)
* Joseph F. Loverro, Fenimore Trace Apts., #5E, Watervliet, NY 12189
Tom Yingling, 221 Pinewood Rd., Baltimore, MD 21222
* Tom Revere, 1112 Chalet Dr. W., Mobile, AL 36608
* Karl V. Jeter, 109 W. White St., Carrollton, GA 30117
Peter McLure, 1690 Pritchard Ave., Winnipeg, Manitoba, R2X 0J3 (rejoins)

RENEWALS

Geise, Basshore, Gannaway, Gleason, Sperry, Kocsan, Whatmough, Hutchinson,
Roupe, Hoogerheide, Block, Greenhill, Portzer, D. Williams, Kerr, Breger,
Roach, Peters, McKay, Feidt, W. Murphy, Atkins, Boilard, Hathaway, F. Smith,
G. Cooper, Dunning, Anderson, Garcia.

NOTES & FROM NJPC

- * Last week's cover plugged the IRCA Foreign Log, but gave an incorrect address by mistake. Order it from IRCA at 12536 Arabian Way, Poway, CA 94062.
- * Likewise we also plugged Bruce Elving's FM Atlas, but neglected to give his address at all. Here it is: FM Atlas Publ. Co., Box 24, Adolph, MN 55701.
- * CPC'ers please remember to notify NNRC of our TESTS. They run monthly, and therefore need as much lead time as you can give them. Address all CPC info for NNRC to Thomas R. Sundstrom, Box 205, Willingboro, N.J. 08046.

MICROFILMING..... Member Wayne Heinen of suburban Buffalo has made an offer to microfilm veries or other DX records for members. Film can then be stored by you and/or in his vaults. Wayne will consider driving within 200 miles for just compensation (expense money), or will accept copy by U.P.S. (insure it !!). Canadians check customs regs first !! Prices are as follows: \$15.00 per 1st 1000 images or part thereof; \$12.00 for additional 1000 images; \$5.00 for each duplicate of order (3000 images or less); 20¢ for each fiche jacket mounted (each jacket holds approx. 50 images). All inquiries about this offer or microfilming in general or for other work should be addressed to Wayne at 126 Linwood Ave., Orchard Park, N.Y. 14127. Our thanks to Wayne for offering this service !!

MOTION DENIED ON SHIP BROADCASTS

Rev. McIntire runs into legal static

The Rev. Carl McIntire lost a preliminary round yesterday in the legal battle over his "pirate" radio broadcasts, and for the time being he does not have a ship to broadcast from.

U.S. District Court Judge Mitchell Cohen in Camden dismissed a motion brought by McIntire's lawyers to lift a temporary restraining order against the fundamentalist minister's offshore broadcasts. The judge also refused to dismiss the complaint brought against McIntire by the Federal Communications Commission.

Last week the owners of the converted minesweeper from which McIntire broadcast on

yesterday. A spokesman said he was seeking another ship to broadcast from.

In denying McIntire's motions, the judge set Nov. 16 for arguments on the FCC's complaint. The agency is seeking a permanent injunction against the broadcasts.

McIntire took to the sea in protest after the FCC closed down his WXUR in Media, Pa., on July 5.

The Oceanic was outfitted in Florida and arrived off Cape May in late August, but numerous problems kept

McIntire's "Radio Free America" off the air until Sept. 19.

On that day McIntire could clearly be heard broadcasting on a frequency of 1160 over the AM band. He went off the air that night and stayed off, amid problems with his antenna and protests from WHLW in Lakewood, which has a frequency of 1170 and claimed interference.

Two days later the FCC obtained the temporary restraining order against McIntire's broadcasts.

At a preliminary hearing earlier this month, McIntire's

lawyers argued that the FCC had no jurisdiction over broadcasting at sea, and that the agency had not followed proper channels in taking action against the radio ship.

Judge Cohen, in a 10-page opinion, rejected McIntire's argument that the FCC had no jurisdiction. He noted that the minesweeper bore an American registry.

Wayne Hansen said last week McIntire had tried to persuade him to re-register the ship in another country.

McIntire's spokesman said yesterday that the Oceanic, a wooden ship, was never suited for broadcasting.

"We never got up over 6,000 watts," he said, "and it got so hot you couldn't put your hands on the doorknobs."

During the weeks of silence that followed McIntire's 10 hours on the air, the preacher vowed to resume broadcasting, and said his transmitter's frequency was being adjusted so it would not interfere with any other station.

Sept. 16 released the ship. They said McIntire had failed to complete an agreement to pay the ship for \$40,000 following a Friday issue.

Chris and Walter Hansen, owners of the Oceanic, sailed for Miami after abandoning McIntire's and a 10,000-watt transmitter from the ship in Cape May.

McIntire was out of town

CLIPPING CORNER

Mon.	Nov.	12	- 0200-	* WGIR- 610	Manchester, NH	5000/1000 U	NNRC
Tue.		13	- 0015-0115	* WTSN-1270	Dover, NH	5000 U	NNRC
Mon.		19	- 0330-0400	* KTAE-1260	Taylor, TX	1000 D	NRC
			- 0330-0430	* KBND-1110	Bend, OR	10k-WD/1k-DA	NNRC
Sat.		24	- 0200-0300	* WFDC-1600	Elizabethtown, PA	500 D	NNRC
Mon.		26	- 0100-0200	* WMBA-1460	Ambridge, PA	500 D	NNRC
			- 0115-0300	* WSAR-1480	Fall River, MA	5000 U	NNRC
			- 0330-	* KRCC- 690	Prineville, OR	1000 D	NNRC
Mon.	Dec.	3	- 0200-0300	* WBVP-1230	Beaver Falls, PA	1/.25 U	NNRC
			- 0300-0330	* KMAV-1520	Mayville, ND	250 D	NRC
Mon.		10	- 0130-	* WHLM- 550	Bloomsburg, PA	1000 U	NNRC
			- 0300-	* WRUF- 850	Gainesville, FL	5000 U	NNRC
Mon.		17	- 0200-	* KINY- 800	Juneau, AK	5000 U	NNRC
Thri.		20	- 0230-	* KFKA-1310	Greeley, CO	5000/1000 U	NNRC
Mon.	Jan.	28	- 0400-0500	* KCRA-1320	Sacramento, CA	5000/1000 U	NNRC
			- 0515-0545	* WTSO-1070	Madison, WI	10k / 5k U	NNRC
Mon.	Feb.	11	- 0200-	* WHIS-1440	Bluefield, WV	5000/500 U	NNRC
xMon.	Jan.	21	- 0300-0400	* KABQ-1350	Albuquerque, NM	500 U	NNRC x

WGIR - No program info. V/s: Norman J. Gagnon, TD, Box 487, Manchester, 03102. Arr. Frank Testa.

WTSN - No program info. V/s: Wilbur Remick, Jr., CE, Box 400, Dover, 03820. Arr. Frank Testa.

KTAE - No program info. Mail c/o station. Arr. Carl Dabelstein.

KBND - PoP w/ 10 kw NDA 0330-0400 & 1kw DA 0400-0430 (null east). Call to be given in voice & CW every 15 minutes. Will be on air at least 2 hrs. V/s: Jim Wardrope, CE, KBND, Box 1071, Bend, 97701. Arr. Steve Pitts.

74 WRTH !

Price will be \$6.00 for book rate delivery. Add \$1.00 to cover delivery via U.P.S. Delivery should be expected late January or early February.

➡ All orders by NRC members must be placed through HQ to be eligible for this discount. Regular list price will be \$7.50 by book rate, so this is a substantial saving.

➡ Send your order for the 1974 WRTH specifying number of copies, mail or delivery desired, address for shipment, and the requisite payment to NRC HQ, Box 127, Boonton, N.J. 07005.

➡ Orders must be received at HQ by December 15 !!! Orders arriving after that date will not be honored and will be returned.

* This offer made available through the auspices of NRC'er Perry Ferrell of Gilfer Associates here in N.J.. If you're interested in many other publications as well as equipment available thru Gilfer, drop them a card to Box 239, Park Ridge, N.J. 07656, but be sure to order your WRTH thru NRC to obtain the discount offer above.

ORDER TODAY !!!



— TONY MOUTH, BY THE PHILADELPHIA INQUIRER

**DOMESTIC
X
BEST**



Wes Boyd
280 W. Liberty
Girard, Ohio 44420

O.K. Group, here we go again.....

- 1/7/8**
 2nd. Sat. WIVY 950 per list (JMP)
 3rd. MN: WLSV 790 per list (JMP) KWKY 1150 (DS) WTON 1240 per list (JMP)
 KPEQ 1340 per list (HWB) KLEO 1480 per list (DS) KWLA 1530 per list (BS & HWB) WPJD 1550 per list (DS & JMP) OPPS..KLEO 1480 f/c above by DS is on 4th MM... My mistake...Sorri..

Dave al o repo ts f/e on 4th. MM not listed..WCCR 1580 IL 0305-0315.
 nd WNGA 1600 Ga. w/ TT 0018-0022

CHANGES

- 600 WICC CT asked new 0530-0003 daily..(CL)
 1220 WCDQ CT Now is Ac network. (CL)
 1230 CHVD PQ application for U-1 10,000 250 per CRTC.
 880 WGET IL To become WJPC per Chicago Tribune story.(KO).
 1350 WHLK CT s/off is about 2300 nightly. Not 2300 per NBC log. (CL)
 1450 CHEF PQ Noted 0610 on 10/14 so Sun. s/en earlier than listed (JMP)

Lucas reports a PIRATE near Bridgeport,Conn. on freq. close to 640. Freq. varies about 100 Hz. w/ modulation & carrier strength also drops by about 3db. Audio modulation about 60%, but distorted & no low frequencies. Locations of studio/transmitter in s/off don't check out. S/off also gives "effective power of 80 watts..vertical & horizontal". He estimates actual power of 1 to 10 watts and sits in Stratford,Conn. s/off also states "on assigned freq. of 640 kHz as authorized by FCC." Also sex is member of NAB. Using call WPLW and sex is operated by Citizens Radio Broadcasting Corp. Programming is Top-40 and sked is 1400-1905 weekdays. Not noted on the air during the weekends.

SUNSET & EVENING

- 540 WOTO FL s/off 1859 good on 10/11. No SSB but promotes sister TV on chnl. 48. (JMP)
 930 WNET KY Hrd. 10/6 1903 giving obituaries & time of death even. (now thats class-HWB) problems from WNET (BW)
 1000 WXTN MS 1920 w/ Nx on 10/6. PSA, then ID after Nx. Weak thru WNOX slop. (BW)
 1050 WSUM OH Excellent sigs. 10/8 @ 1845 w/ Nx,Wx,Spts,s/off,SSB (JF)
 1050 KMIS MO W/ "Thought for the day" 1927..TC 1929 then s/off & SSB. was killing freq. at end of SSB. This 10/6 (BW) (JMP)
 1140 WJCV NY O/ WBYA w/ light MOR-local anscts.,wx. 1818-1829 10/14
 1250 WLEM PA S/off e/ WTAE & others 1827 on 10/9-No SSB--(JMP) (Some guys have all the luck..HWB.)
 WKER VA S/off just after WLEM 1829 on 10/9. Has FM promos, but no SSB (JMP) (Why couldn't you collect stamps??-HWB)
 1330 WFBC SC Spots 2023, Female vocal then phone # 849-2307. This followed by WFBC Super Weekend promo. This on 10/3 (KO)
 1360 KPFA AR Good w/ Ark.-Taylor PB on 10/13 2023-2102, ID mentions GATEWAY TO EASTERN ARK. (KO)
 1410 WLB-J KY 10/3 fair 2139 w/ KY-NC PB. Local Ads & Bowling Green mentions. (KO)
 1420 WAMH MI "WAMH numbers game" contest 1839 on 10/6. s/a WEK. (JF)
 1450 CHEF PQ Strong w/ FF Nx 2300-EE & FF MOR tll 2315 t/out. OM & YL ansctrs. O/ everybody (JMP).. (go play in traffic...HWB).
 1460 WPON MI W/ K30 10/13. Female vocals 2146-2201 (KO)
 ESO IA W/ RR 2151, Wx 2152, then local ads to 2301..10/13 (KO)
 1470 WWHY WV s/off w/ little QRM. Well o/ WSAN. Even killed a log of Monaco 1466..This 10/14--1859 (JMP.)

- 1550 WSAO MS W/ nx,wx, 1927 to 1929 s/off on 10/10. (BW)
 WCTW IN Hrd. 10/10 w/ wx 1932 u/ unid w/ current events type discussion pgs- CBE ?? (BW)..(CBE it were..HWB)
 1560 WRIN IN 10/17 in s/off 1915 w/ mention of Jackson County. No SSB...(BW)
 WVAK IN S/off o/ WRIN 1915 on 10/17. Good for 250wt. (BW)
 1580 WLIJ TN Hrd. w/ unbelievably POOR anncr. w/ nx 10/7. Nx 1908-wx 1914. This guy sounded like a first graded with his new reader. Had to be part-time for weekends, But....(BW)
 WELY AL S/off in clear after others off. FM promo 1915. This on 10/7. Only WCLS after (UOH)-(BW).. (Ditto--HWB)

- midnight to sunrise**
 610 WIOD FL Noted w/ ET/TT 10/22 in WIP null. 0009-0018 & ID at end of test. Usually in MS on MMs.. (DS)
 880 WDCS NY Off & ET/TT/OC most of 10/15. No BBC-1 drat--(JMP).
 920 CKCY ON Hrd. in mess w/ spts. 0132 on 10/15 (KO)
 WOKY WI 10/22 w/ OC 0358 ID-off 0401 w/ SHW ET. Was RS earlier in AM. WMEL nulled/KARN in there. (BS)..(I note KARN MM s/off at 0100--HWB.)
 KARN AR 10/22 w/ automated MOR. ID 0403.. First time in many moons. (DS)..(Maybe an ET ??--HWB.)
 930 UNID FF Female vocals, no talk. 0135-0148 on 10/15. Nulls to NNW so maybe CJCA. (KO) (NOPE--CJCA I understand in EE & DRAKE type ROCK..HWB.) (maybe a CA 50 w/ tcy - DF w/et 50 4/5)
 940 UNID 10/22 w/ TT 0402 & off 0406 in WINZ null. Tone about 800 Hz.--Any ideas ?? (DS) (Top--WMIX IL playing games again--HWB)
 950 KIMN CO Atop w/ RR & oldies promo 10/22 0343. WKAZ & WBSF on. (DS) (Wha happened to MM tele-talk show they had?? HWB.)
 960 CHWS ON All MM 10/15 w/ RR & female anncr. (DS) (There goes 960)
 970 CKCH PQ 10/15 w/ FF vocals 0052-0115 (KO)-- Equal to WWSW 10/15 w/ FF mx 0215. WWDJ seemed off (DS)
 1090 WMUS MI ET w/ MX 0238-0244 on 10/22. One Jx ID 0243 (DS) *
 1110 WSLV TN Got end of another DIXIE ET. 0035 on 10/15 (DS)
 1150 CKX MD RR, ID, then more RR 0109 on 10/15 (KO)
 CKOC ON In CKX null 0111 w/ RR on 10/15 (KO) *
 1220 CHSC ON Equal to WGAR 10/22. Nx,Sptz, 0303 (DS) (That happens every night here..HWB)
 1230 WCRO PA Weak on DX TEST. 10/22 noted 0211, s/off & CW ID 0234 (DS) (Not noted here at all--HWB)..
 UNID Noted 0011-0016 w/ TT & nx, no IDs. (Maybe the same one I had here 0025-0040+ HWB) Any ideas ??? (DS) This 10/15
 1250 UNID Sounded like POP on 10/15 0030-0038 e/ WTAE (DS)
 WDAE FL On top w/ "NAME GAME" promo & RR 10/15 0320 (DS)
 WRGN KS Weak 10/22 w/ promos & mx 0318. CHWO OC,WTAE off. (DS) (WTAE was the OC--& CHWO in MOR all AM--HWB.)
 1270 KFJZ TX First time in quite a while, 10/15 at 0300-0305+ w/ RR after UPI nx. Finally reported..(DS)
 1290 WHIO OH Noted returning to air 0100 on 10/15 (DS)
 1310 WCAM NJ Fair w/ CKOY/CPGM. Hrd. gospel mx. 0115 on 10/8. (JF)
 1330 KWVL IA ID 0114 came outta the mess on 10/15 (KO)
 1350 WEZY FL On top all 10/15. Garry Dollar RR show. WSLR quite weak. was looking for WWBR-IRCA test which didn't show. (DS) 10/20..TT on/off 0118-0135 w/ WAMS in null. no ID (DS)
 1380 UNID ID outta nowhere w/ WILM nulled. 0130 on 10/22. Dunno if ET or RS. (DS) (Supposed to be silent MMs--HWB.)
 1460 WOKO NY Another C&W ET 0032-0052--ID 0050 on 10/22 (DS)
 1470 UNID Someone w/ telephone tone 10/22 0256-0259+. CHOW strong. WVB5 still on f/c (DS)
 maybe
 1480 WDAS PA First time on MM in years, 10/22 u/ WLEE 0323 w/ promos & RR (DS)
 KBCX TX IB 0120 & local ads for Dallas. 10/15 (KO)
 1500 WTOP DC Noted s/off 0133 on 10/22..New sked?? (DS)

1550 WAAY AL Noted all AM 10/15 w/ RR (DS). Noted 10/15 w/ RR-ID 0130 then Nx. (KO)
 UNID Continuous classical mx in WAAY null about 0130 on 10/15. Hrd. mention of Tower records & Berkley..KKHI ??? (KO) (Yup--HWB).
 1580 WSRF FL AN 10/22 w/ RR. Maybe for storm off Fla. coast.(DS)
 KBGO TX This ID outta mess of 3-4 ETers 10/13 0230-0330+ (BS) (Dunno exact date of change, but KBGO is now KRZI -HWB)
 1600 WFRG NC S/on w/ SSB 0500 on 10/11 good. (BS)
 WAAM MI ET/TT 10/12 0146-0205. (BS)

Thats the extent of it this time. Did note the WBLF 970 & WWBR 1350 IRCA tests not on. Nothing on WCRO test hrd. here for that matter. Should get WBLF as I get WWDJ in WWSW null. WWBR is daytime pest audible in WSLR null most of the afternoon. WCRO was needed for tape, but.....

Please be sure to list your eqipment in future reports. I have the info on about half of the reporters.
 Geoff Fox is checking to be sure but my info shows a WGAR 1220 silent period due MM 11/5. Should it rain,etc. this gets moved one week. The next SP will then be another 13 weeks. Should be off 0000-0300 then ET till 0500.

Semi-local WPAR 1470 now seems to be back to the 0000 daily s/off. And WKBN 570 SP: varies between 0040 & 0055 on MMs. A Check w/ WFMJ 1390 shows most ETs are Fri. morns. & they will try to ID more often. If they ID at all it's more than they do now.

INFO on mail from reporters...
 KO- 2-3 days. JMP- 2-3 days. CL- 2-3 days. BS- 6 days
 BW- 1-2 days. DS- 2-3 days. JF- 3 days. NRC HQ- 2-3 days
 In most cases it takes 2 days for all but Bruce (1 day),Jeff (3 days) and Stone (6 days). Dunno reason for the delay on Bill's but it happens.

Gord Bailey sez CJRN 710 doesn't always have a Sun. SP. Mostly on this AM but sometimes another AM in the week. When this happens they run Sun. AM.

REPORTERS::
 DS Dave Schmidt-New Castle,Del.-HQ 180 & loop.
 JF Jeff Falconer-Clinton,Ont.
 BS Bill Stone-Scarborough,Ont.
 JMP Jim Poterba-Yardley,Pa.- HQ-200 & SM
 BW Bruce Winkelman-Man,W.Va.
 CL Chris Lucas-Fairfield,Conn.
 KO Ken Onyschuk-Blue Island,Ill.

Later,
 H.A.B.

Note: Integrel values of latitude and longitude are given here only to simplify the text of this article.

TX Coordinates	D°	S°	Angle (RX)°	M (Miles)	Angle (TX)°
35° N, 80° W	35	80	82.83°	1414.37	277.17°
35° N, 100° W	35	100	274.30°	848.36	85.69°
45° N, 120° W	45	120	301.70°	1878.20	89.30°
47° N, 80° W	47	80	49.34°	7544.21	245.74°
50° N, 110° W	50	110	263.32°	7496.50	69.64°
25° N, 70° W	25	70	123.84°	1122.14	311.14°
40° N, 85° W	40	85	0°	888.84	180°
22° N, 85° W	22	85	180°	897.78	0°

SIMPLIFIED GREAT CIRCLE COMPUTATIONS...de Ghoti, Ph. Dr

Several articles have appeared in past bulletins regarding the calculation of great circle azimuth bearings and distances. The following method is most likely one of the most efficient but its accuracy decreases as the great circle distance increases. However, for BCB work out to 4500 miles or so, the accuracy is quite tolerable.

Let RX and TX be the two locations on the Earth's surface; A be the latitude of RX; B the longitude of RX; D the latitude of TX; and, E the longitude of TX. All angles are measured in degree measure: (°) degrees, (') minutes, and (") seconds although for DX work seconds of arc can be omitted unless RX and TX are very close. Standard conventions on algebraic signs are N-latitude and W-longitude are non-negative while S-latitude and E-longitude are negative. Now calculate:

$$\begin{aligned}
 F &= A-D \\
 G &= B-E \\
 H &= (A+D)/2 \\
 J &= \text{ATAN}(\text{ABS}(F/G) \text{ SEC}(H)) \dots \text{degrees} \\
 M &= (69.06) \text{ ABS}(G) \text{ COS}(H) \text{ SEC}(J) \dots \text{statute miles} \\
 K &= (0.5) \text{ ABS}(G) \text{ SIN}(H) \dots \text{degrees} \\
 S &= J+K \dots \text{degrees} \\
 T &= J-K \dots \text{degrees}
 \end{aligned}$$

The bearings are obtained by a quadrant-type decision logic as follows:

SIGN (F)	SIGN (G)	ANGLE (RX)	ANGLE (TX)
0	+	90° + T	270° + S
0	-	270° + S	90° + T
-	-	270° + S	90° + T
-	+	90° - S	270° - T
+	-	270° - T	90° - S
+	+	90° + T	270° + S
+	0	180°	0°
-	0	0°	180°

and for the last two cases: $M = (69.06) \text{ ABS}(F)$

Notes: ATAN is the arc or inverse tangent function whose values here lie in the range $0^\circ \leq J < 90^\circ$. ABS (X) is the absolute value or magnitude of the quantity X; that is, ABS (X) = X unless X is negative, in which case ignore the negative (minus) sign. For example: ABS (-3.6) = +3.6, ABS (2.9) = 2.9, ABS (0.113) = 0.113, ABS (-0.178) = 0.178. M is the great circle distance between RX and TX, Angle (RX) is the bearing of TX as measured at RX, Angle (TX) is the bearing of RX as measured at TX and both these angles are measured clockwise positive from True Geographic North at the respective locations.

Some examples follow: In every case RX has coordinates 35° N, 85° W (A=35°, B=85°).

STATE OF THE N.R.C. REPORT -- 11/1/73

This report is intended to let our members know where their club stands as of November 1, 1973. It is not a formal annual report, but we trust that this will suffice to present a clear picture of the club's status.

Our current membership numbers some 535 members. 117 receive DXN by Air, 35 by 3rd Class. We count six exchange bulletins in that total, which also includes 12 foreign members, either at Surface or Air A0 rates, and 350 domestic members receiving DXN via first class mail. During the year ended October 1, 1973, the club membership showed a net gain of 0 members. We had 138 members drop from the club, while we added 138 via new joins or re-joins. This was perhaps the most disappointing statistic we found after we examined the NRC books this past few weeks. We have been able to account for valid reasons for only 18 of these 138 drops, hence the 120 drop letters noted in issue # 2. We have already received some twenty replies, which have resulted in 7 re-joins.

As noted in issue #2, we have been extremely busy sending out sample kits. The primary reason for this is the aforementioned "growth" rate of zero. To date, we have sent out nearly 300 sample kits. We are likewise processing another 100 plus drop letters to be sent to all former members who dropped between 1970- & mid-1972.

It is imperative that the club show a more reasonable growth factor, and we have accordingly requested in a prior issue, that GPC members solicit lists of reporters to DX TESTS to be sent to HQ for sample distribution. Likewise, we should like those of you who leave near, or visit REGIONAL stations to try to obtain DX reports, so that we may send samples this way also. We stress the aspect of regional stations because by culling out-of-area reporters to these stations, we will assure ourselves of more serious DX'ers, thereby hopefully insuring not only a better return on our sample kit expenditure, but likewise insuring of longer terms for members derived therefrom. This naturally applies to local-class stations as well.

We currently have some 80 + domestic logs left. We anticipate selling out by January, and we are already exploring the idea of a second printing of this edition of the log, updated as far as is possible through a supplement of about 10 pages. We have also about 500 pattern books still in stock. We are working on a more formal updater system, but this is still in the planning stages. The day pattern book project is currently in the holding pattern due to logistical problems in obtaining all of the needed patterns, as well as time and monetary considerations. We are also considering a new edition of the LA Log, and anyone interested in co-ordinating such a project is advised to contact us about it.

Financially, we have come to the point where we have a relatively good idea as to what our costs will be for this volume, although several potential areas of fluctuation are always imminent. A breakdown of our annual operating budget looks something like this:

INCOME: DUES:	1st class members:	4550.00
	Air Mail members:	1540.00
	3rd class members:	530.00
	Foreign members :	250.00
	new member fees :	100.00
		\$ 6970.00

EXPENSES:	DXN Postage	: 1880.00
	Printing	: 2952.00
	Collating/Stapling:	1500.00
	Photos	: 75.00
	Sample Kits	: 200.00
	New Member Kits	: 175.00

continued next page....

EXPENSES (ctd.)

Phone	:	250.00
Supplies	:	150.00
Forms	:	50.00
Labels	:	90.00
Renewal notes	:	50.00
Misc.	:	50.00
		\$ 7422.00

NET LOSS: 7422.00 - 6970.00 = \$452.00

Notice, however, that this loss is projected on the basis of our current membership figures. If we increase our membership by 50, at an average dues of about \$ 13.00, we see that we can increase our revenues by \$650.00. At the same time, our printing costs remain constant, and the only increase in costs which is directly attributable to the membership increase is DXN postage, which would average out to about \$50.00, thus putting us about even, if nominal incidental expenses occur, or into the black if not. If we run in the red, we must rely upon sales of logs and pattern books to pull us out. Doing this also limits our flexibility for new projects.

We have absorbed about \$300.00 of additional costs over and above what BPC had been spending in order to bring about our current negative-and-plate operation (that figure is a NET figure -- we've reduced some and added to others) in addition to about \$200.00 of one-time costs to start up operations here in NJ, what with new address stamps, stationery, envelopes, and forms. This means that for the current year, we will have no choice but to be in the red with our bail-out coming from publications sales, but that reflects the \$200.00 of non-annual costs.

We are currently working on certain potential sales-enhancement arrangements which would enable us to work toward the 2nd printing of the current edition of the Domestic Log, as well as a possible LA log. It is imperative, however, that we register a net gain of 40 to 50 members for this current DX season if we are to move on forcefully with our special projects. For this reason, we encourage ALL members to actively participate in membership recruitment and in sales promotion. We've already discussed what can be done in the membership area, but the sales promotion angle is fairly new. Many of our members who are in the broadcast industry and allied fields in engineering and advertising have found great enthusiasm for our publications, especially the night pattern book, in professional circles. YOU, the member can help us by taking your copy of the PB and the Log to the engineering staffs at your local stations and selling them on these items. Both books cost \$7.50 for first class mail for non-members, and you can help them to order.

What do you get out of it ?? Your commission is, put quite simply, the same amount of dues we can save you by virtue of keeping our deficit down by means of publications sales. The more PBs and Logs sold at \$7.50 to non-members, the more cash intake we have, and the less we must increase dues to meet our expenses. This is not to say that dues won't increase, because they will. A dues hike will be absolutely necessary to meet costs of the projected postal rate increases. As in past years, we will raise dues accordingly, and pro-rate all existing memberships to reflect said changes. Likewise, the costs of paper are skyrocketing, and we may be forced to increase dues a bit more than the pro rata share of the postal rate hike to compensate for them, but you CAN help to keeps dues down !

continued page 10

NATIONAL RADIO CLUB
BOX 127, BOONTON, N. J. 07005

On another front, we are currently preparing (as noted in #3) our new, revised New Member Kits. These will be offset, and formatted like a 48-page DX NEWS, with revised articles and other information for new members. Those of you who have joined in the past year, and who have paid their new member fee, will be receiving their NK's in early December. Again we apologize for the delay, but much time-consuming preparation is necessary for a new NK, and we felt that we had to devote our first 30 days to getting oriented and handling club operations.

We are likewise giving top priority to membership requests and orders. We are attempting to process all orders and correspondence within the same week as they are received. This is with the exception of reprints, which we must accommodate a necessary delay in logistics of getting order info to Foxy, as all orders are and must be processed thru HQ.

Within the next four issues, we will be affixing membership expiration dates (month and approximate day) to our mailing labels. This is both to simplify our job, and to help members to know when they are due for renewal, as many have requested. If we make errors in this, please forgive us, and above all, report them to us, as our records are still both somewhat confused and somewhat contradictory between two systems. Likewise remember that all dates coming after any necessary dues increases will be adjusted to pro-rate the effective amount of increase.

As a final addition to this "State of the NRC" message, we furnish below a breakdown of relative page counts covering Volumes 39 ('71-'72) and 40 ('72-'73) for your perusal. Bear in mind that Volume 40 contained only 31 issues, and that for several of these, copy was held down because of uncertainties of the impending operations transfer.

Respectfully submitted,

R. J. Edwards, for NRC

Item	Pages Vol. 39	Pages Vol. 40
Headquarters	72.0	72.5
Musings	304.0	205.0
IDXD Reports	107.0	114.0
IDXD Features	21.5	22.0
DDXD	92.0	110.5
Technical Articles	35.5	123.5
Feature Articles	111.5	42.5
Station Lists, Updates	55.5	41.0
Advertising	5.5	8.5
Clipping Corner	12.5	12.5
DXtras	38.0	7.0
Verie Signers	7.0	8.0
Supremacy Ratings	9.5	4.5
Filler & Misc.	10.0	4.0
Back Pages	32.0	31.0
Captain Glotz	9.0	7.0
Veries	10.5	5.5
Contests	11.0	0.0
TOTALS	943.0 (approx.)	817.0 (approx.)
AVG. P ISSUE	29.5	26.6

Radio SANTA MARIA
LA DE LA BUENA MUSICA

16000 WYTS - TELEF. 58
CAJUPU CARRERA
LA 1904
REC. DOMINICANA

Enero 7, 1973
RSN/1/73

Señor Ernesto R. Cooper
National Radio Club
438 East 21 St. Street
Carrier Route 23
Brooklyn, N. Y. 11226
Estados Unidos de América

Estimado señor Cooper:

Hemos recibido su "carta-reporte". Su información de fecha 18 de diciembre de 1972, no nos parece que haya sido una transmisión nuestra, a no ser que la recepción fuese con demasiada interrupción.

Sobre la recepción del 13 de diciembre de 1971 es correcta: El programa al que hace referencia es el "Alegre despertar Dominicano" que se transmite de 5:00 a 6:00 a.m. y la distribución del programa es justamente la que usted captó.

Agradecemos su informe, si necesita una carta más explícita, estamos dispuestos a enviársela.

Felicidades en 1973 y que pueda seguir captando nuestra emisora Radio Santa María, transmitiendo en 590 Kcs.

Atentamente,

Lic. Amable García S. J.
Director en Funciones

AG/ab.

ALÉGRIA CULTURA EN TODO EL PAIS

In the absence of any news-breaking feature articles from authors in the NRC membership rolls, the following regarding RADIO FREE AMERICA is being presented. Credits to the influential Bergen County, New Jersey newspaper, "The Record" of 28 Oct. 1973.

Behind the pirate radio ship

● Tied to the dock at Cape May, both by strong howlers and by bitter litigation, rides a converted U.S. Navy minesweeper, equipped with silent radio transmitters strong enough to reach Bergen listeners.

For less than a day last month, sitting outside the three-mile limit, it was the country's first pirate radio ship, proclaiming itself Radio Free America.

● In a Philadelphia suburb with the now-ironic name of Media, a watchman guards the unused tower, studio, and broadcasting equipment of another silenced transmitter, that of WXUR and its 24-hour WXUR-FM.

For seven years the stormy petrel of the airwaves in the Philadelphia-Camden listening area, it is America's only station to be taken off the air by the Federal Communications Commission on grounds of violating the fairness doctrine of presenting both sides.

TODAY, WATERGATE has raised some new questions about what's behind these cases.

Both silenced stations belong to the organization of radio preacher Rev. Carl McIntire, vehement right-wing fundamentalist. Although the drama of the ship drew bigger headlines, actually it was just an effort to remove himself from the jurisdiction of the FCC, and

force another court test, after it took away his license at WXUR.

McIntire bought and equipped the ship (partly with a reported \$40,000 gift from a wealthy supporter) and renamed it the Columbus. After two weeks of technical delays, he went on the air at sea Sept. 19, with a manifesto proclaiming: "Without free speech, free religion, a free press, it is impossible to resist the shackles of tyranny."

Ten hours later, when a station 75 miles away telegraphed that he was interfering with its signals, he suspended the transmissions, saying he would find another wave length. Next day the station was operating without a license, and started the case on its journey through the courts.

But all sides agree that the real issue is FCC's refusal to renew the broadcasting license of WXUR, which was ordered off the air a year ago after it lost a court appeal. A bill to reopen it is before Congress, backed by a petition drive for which McIntire hopes to collect 1 1/2 million signatures.

Rep. John Rarick (D-La.), introducing the bill, wrote: "The McIntire case threatens the entire broadcasting industry and free press." The Greater Philadelphia American Civil Liberties Union, in a sharp break with other local liberals who had demanded the

shutdown, now holds the latter is a greater threat to freedom than it probably considers McIntire's broadcasts themselves.

The battle was billed as one between McIntire and 18 organizations he attacked as "liberals" over the station — who had opposed his original license application at hearings in 1964, but were overruled then. They ranged to the regional AFL-CIO and the New Jersey and Greater Philadelphia Councils of Churches, along with Roman Catholic and Jewish bodies and black organizations.

The group then monitored his broadcasts and opposed the renewal of the license at hearings in 1967 and 1968. The hearing examiner ruled in favor of renewal in December, but in July 1970, the FCC reversed his decision, and was upheld by the U.S. Court of Appeals last September. This February the Supreme Court declined to hear the case.

The monitored tapes of the mid-1960s were damning enough, but some of the Watergate testimony on dirty tricks raises the question whether — unsuspected by both sides in the battle — there may have been political pressures that had nothing to do with those tapes, between the favorable ruling of 1968 and the reversal of 1970.

Whether that is actually

1970 was the year of the all-out Republican effort to line up a solid New Majority of the right, climaxed by the then Vice President Agnew's attacks on liberalism in the congressional election campaigns that year. McIntire was a wide-open crack in that would-be majority. If the later alleged tricks to head off the Wallace campaign are an indication, there must at least have been relief in the some quarters of silencing some of McIntire's attacks.

None of that, to be sure, concerned the petitioners to take him off the air. They said the host of one WXUR call-in show cut off and insulted callers who did not agree with his views although they conceded the program later improved. A moderator on another program was quoted as asking a panelist: "Why is it that Negroes can talk about white people but a white person cannot talk about a Negro? You led a group that broke all the windows in the school."

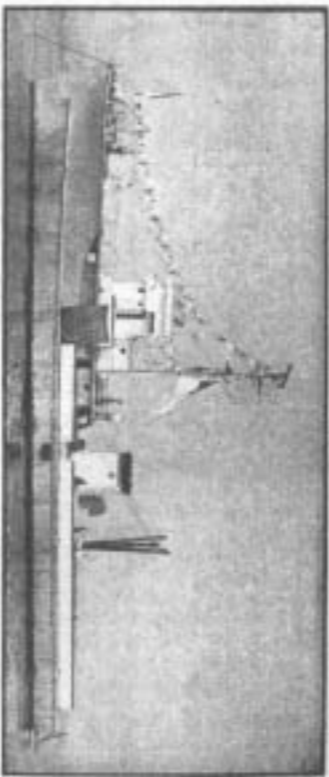
The petition stated: "In one program alone, (WXUR broadcaster) Van Smoot decried unemployment compensation laws, birth control legislation, firearms control legislation, District of Columbia home rule, restoration of trade with Soviet bloc nations. No views contrasting with any of the above views were presented during the monitored weeks."

The charges, ultimately upheld by the FCC, were that the station had violated the fairness doctrine, the personal attack rule (of notifying persons who are attacked), and had misrepresented its plans when originally filing. Executive director Spencer Cove of the Greater Philadelphia ACLU, re-

called: "The FCC examiner filed a large report in which he observed that McIntire had not observed all the regulations, but recommended that the license be renewed, because the station had not deliberately set out to violate the regulations, which are very burdensome for a small station to observe — like notifying every person attacked."

In spite of their being on the same side favoring renewal, there is little love lost between Cove and McIntire. Cove commented, "I must say I think McIntire is a liar who distorts facts and poses as a martyr. He invited opponents in a way that made it impossible for them to accept."

With a red banner over the side proclaiming "Radio Free America," the pirate radio ship Columbus rides at anchor beyond the three-mile limit off Cape May, flying the international Christian flag of white with a cross on a blue field. Later it shifted 12 miles out.



KOFI

SALES CLIMB WITH



KOFI TIME

MONTANA'S MOST POWERFUL STATION
10,000 WATTS UNLIMITED
1180 KC - 11-A CLEAR CHANNEL

317 FIRST AVENUE EAST
BOX 608 - (406) 756-9471
KALISPELL, MONTANA 59901
July 17, 1973

Mr. Brian Vernon
Polaris 4 #432
Thompson R8N OA4
Man., Canada

Dear Mr. Vernon:

Thank you very much for the reception report. We receive very few night time reports from the east since we protect WHAM with our null. Certain conditions of skip allow us to be heard but not generally.

The hum you mention could well be a jamming station located in Cuba which is used against the Voice of America station located in Florida and on 1180 KC that beams their signal to Cuba.

Reports from the West very seldom mention this, however, I know WHAM has complained bitterly to the FCC in an effort to have the V.O.A. station removed because the Cuban jamming effects their service area.

Yours truly,
W. H. Patterson
W. H. Patterson, Ch. Eng.

WHP:lp

VERIE SIGNERS

A - J. Ross	E - R. Wolf	1300	W P N H	JG Keyworth, GM	D
B - J. Critchett	F - unsigned	1310	W C A M	JA Heal, TD	C
C - R. Musco	G - C. Dabelstein		W TmL B	DE Doughty, CE	C
D - S. Morss			K E I N J	J Wollstad, CE	B
		1320	C HqQ M	ML Foisy, VPopProgrmg	B
540	C B K R Dressler, E	E	K AqW C	D Myrland, PM	B
	H J K A Humberto P Carreno	G	K I N E	RE Whitaker, CE	G
525	T I C A L Carlos L Fernandez	G	K OpV E	M Goodrich, GM/CE	B
550	K B O W M Hansen, CE	EG	1340	K L B K R Maltzberger	G
610	W GqI R B Mack, GM	C	W TmW N	IN Brown, PM	C
620	C KqC K H Dean; J Parry	F	W BmN T	R Stewart, CE	C
	W HfE N RW Ardner, CE	F	1370	K S O P GK Hilton, E	G
690	W ApD S DE Richeson, SM	C	K XfL F	J Boyle	F
710	W DqS M NP Gill, CE	F	1380	W Afo K IH Miles, CE	C
750	K S E O J Fellabraun, E	G	K LfI Z	R Stafford, PD	F
790	K GqH L FL Bartlett, CE	F	1400	K T P S B Kinney, CE	G
*670	K B O I J Johntz Jr. AGM	E	1410	W B Z A NC Crannell, PubServD	C
800	C HqA B N Kent, E	F	W U N I	J Burns, CE	G
810	K CfM O SL Bowers, OpD	F	K R W B	J Koehler, NxD	G
840	W M O B RC Meyer, PD	G	W IfZ M	J Bauer, CE	F
860	K W P C R Stormer, AE	G	CfK VmN	DJ McCulloch, E	F
	X B U N Santiago AvalosTechG		1420	K TfO E H Engel, CE	F
900	C KfB I FF Rawlinson, M	F	W P E H S	Daitsh, CE	G
930	CqJ CmG Skutle, Cech	F	1430	C KfF H GA Wilson, DoE	F
	K SqE I HH Fletcher, GM	F	W IqR E	CW Trout, GM	F
	K A F F J Anaya, PD	G	1440	WfQ CmK TE Huckaby, CE	C
	W P A T C Hohn, PD	C	W S G O	RC Gessner, GM	C
950	W H V W DW Groth, ACE	C	X E L Z	Manuel T Aguirre	G
	K M E R Brenda Wade, S	G	1450	W R O B JE King, GM	G
980	C KqR M A Duff	F	WpF ThR	u/u, CE	C
990	X E T Jesus Orezco A, G	G	1460	W B E T EG Hooker, CE	C
1010	K I N D N Rupard	G	W AqX C	F Scheidt, ESu	C
1050	K V P I JL Sylvester, CE	G	1470	W S R O PG Falconi, ACE	C
1070	W IqB C R Smart, CE	F	W B T X	PE Moyers, GM	C
1090	W K S P P Richards	A	1480	W Ics M C Cain, CE	F
1100	W WqW E HA Spiller Supr	E FG	1490	W B C B J Super, CE	C
1140	K Sfo O R Marty, CE	F	1510	WpA HmT WF Margut, CE	C
1170	K Sft T PE Blair, CE	F	K GqA	T Gorman, CE	F
1180	K OqF I WH Patterson, CE	F	1530	K CmL R FT Wilson, P	B
1190	K P A R P Howard, OpM	B	1540	W R C P DA Rutman, CE	C
1230	W J B C L Shoel, CE	G	1550	W NpT N G Norton, CE	C
	K T R F D Olson, M	G	WfY NmA	B Hayes, TD	C
1240	K G Y R Pust, PD	E	1570	W YpT I G Lynch	C
	W S N Y RW Parry, PD	E	W QpT W R Davis, CE	C	
	W S K I N Hoover, A	C	1590	W ArR V C Kernick, OpM	C
1250	W Tfa E JH Greenwood, CE	F	WfE HmH	FP Saia, GM	C
	C Hfs M JJ Pauls, E	F	*1290	W G L I F Cambria, CE	C
	W EfM P RE Paske, CE	F	*1450	W F I X J Garrison, M	G
	W N V L M Wayne	G			
1260	C FqR N JS Edwards, OpM	F			
	W BpN R u/u	C			
1270	C Hfa T S Gaffney, TD	F			
	W Xfy Z R Harbough, CE	G			
	W LqB R W Zehring, CE	C			
	W DnL A PG Vessey, CE	C			
1280	C Jfs L Mrs. S. Wilde	F			
1290	K OqI L D Eliason, CE	F			

We still have some more of these verie signers on hand, but send in yours, but please to weed out those which have recently appeared in these columns. Use the between-the-call-letters letters for description of the type of verie you got. Please list them double-spaced, and give the frequency & position of the v/s. ERC.

editor.. Alan Merriman
P. O. Box 8
Fairfax, Va. 22030

Greetings. Judging from the lack of reports this time, things must have really taken a nosedive. Or maybe you're all like me and haven't had much time for DX? Here is what material I do have.

- 570 -COLOMBIA HJND R. Nacional, Bo w/commercials, ID at 0100 er AX with good sigs on 10/23. (RG-IL)
- 590 -COLOMBIA HJCR R. Sutatenza, Medellin is now 100 kw. (WRTH)
- 605 - GUATEMALA TGRC "Su Radio Campesina", en 600 kHz, Guatemala TC 0658 10/22 as "3 minutos para la hora uno", Ode to Joy in SS; 0702, ID mention of Tiquisate (its town), promo; first noted at 0650 w/SS mx; 0737 check still on. Ever reported here before? (GH-OK) First time reported, to my knowledge. (ED)
- 650 -HAWAII (Tentative) KORL Honolulu, 10/22 0740 animated phone-in interview discussion of republic vs. democracy concept; a stn w/mx presumably WEM, mullied. (GH-CK)
- 656 SPANISH SAHARA (Tentative) Stn noted here at 0642 on 10/22 w/went in rapid SS followed by pop music, including Release Me by Englebert Humperdinck and Adios. Very high local noise level made copy very tough. Faded under the noise at 0658 no chance for ID on the hour. I was alerted to this by a phone call from IRC's Gene Martin in Denver who had heard the station 4 out of the previous 5 mornings. Loop bearings, frequency, language and fade out time all point to R. Sahara. If so, this should make this a easy country, at least on the EC. (ED)
- 735 ECUADOR HCBG1, R. Melodia, Quito noted on 10/22, w/mx at tune in 0350 to 0400 ID "Radio Melodia en Quito" & several more anmts, back to mx. Another good ID 0430. Pop mx. Sig fairly good at times. (TRS-NJ)
- 790 CUBA CMCN Havana strongest stn on channel w/mention of Camaguey 0440 on 10/22. How does one ever hear the Canal Zone? (RG-IL) One doesn't hear the Canal Zone vj often. There has only been one legitimate logging of the CE in NA to my knowledge. (ED)
- 836 -UNID Netting against R. Belize and bearing towards the East but het only as WHAS is too strong at 0000 on 10/19. (RG-IL)
- 850 -GUATEMALA TGX R. Ciro's, Guatemala City is now 15 kw. (WRTH)
- 854 -SPAIN HSE Marcia w/armchair s/on 0500 10/18 but RCA quickly killed it. (RG-IL)
- 900 -BARBADOS R. Bartocas noted on 10/21 w/average sig w/XEM looped, 0000 mx-IL) followed by SINGO at 0015. Report sent. (RG-IL)
- 935 -MOROCOCO Agadir w/man talking 0200 on 10/14, fair w/slight CBM slop. Noted at good level on 10/19 at 0000 w/talk, into AA chanting. (RG-IL)
- 940 -COLOMBIA HJTL La Voz del Progreso, Cucuta is new stn w/25 kw. (WRTH)
- 960 -COLOMBIA HJHN R. Sutatenza, Magangué 10/23 noted w/ex sig atop freq 0120+ w/several R. Sutatenza ID's & "Republica de Colombia" at 0130. All mx. Auroral condx obviously continuing ... regulars Believe, 4VEF-1035 others all above stations that are either side of them. (TRS-NJ)
- 970 -COLOMBIA HJME R. Peninsula, Maicao is now here, ex-1170 w/50 kw. (WRTH)
- MEXICO XEA Ciudad Juarez noted w/R. Mexicana ID and mentions of Juarez. Good sig on 10/22 w/WAVE looped at 0520. (RG-IL)
- 1005 -COLOMBIA(?) Stn noted briefly 10/22 0708 w/SS anmt and US rock; presumably R. Colonial, Neiva. (GH-CK)
- 1015 -PANAMA(?) R. Beloj and TC at 0209 on 10/22. (GH-CK)
- 1030 -COLOMBIA HJHO Transmisoras Surandes, Medellin is new stn w/10 kw. (WRTH)
- 1035 -UNID w/LA after 4VEF s/off and noted particularly at good level 0330 - 0350 split off from CSER w/easy listening mx on 10/17. (RG-IL) light mx at 0710 10/22. Must be other than 4VEF, right? (GH-CK) This is probably HQS21, R. Union, Panama. Has been noted by me in the past w/poor sigs. (ED)
- 1155 -EL SALVADOR TGCF Ondas Orientales, San Miguel on 10/22. Was my unit from 10/8. An ex sig at s/off 0530 w/NA; gave complete ID right down to indicating Central America. New. (TRS-NJ) Fair w/mx at 0325 on 10/19 w/moderate ESI slop. (RG-IL)
- 1170 -COLOMBIA HJGA R. Boyaca, Tunja is now here, ex 1500 w/10 kw. (WRTH)

- 1170 -COLOMBIA. The R. Ambala I discovered last season on 2nd harmonic of 2340 appears in the late t Colombian list obtained by WRTH on 1020 as new stn. Location is Armero, Tolima. This explains why it quickly disappeared in 2340; it apparently operated only briefly on 1170. (GH-CK)
- 1180 -BRAZIL PRE3 R. Globo, Rio w/good signal after R. Mil s/off 0555 10/21 and still here after 0710 check. XEM weaker for a change. Haven't been hearing Cuban jammer lately. (RG-IL)
- 1205 -COLOMBIA HJOV Emisora Cultural Surcolombiana, Neiva is new stn w/10 kw. -SIERRA LEONE O600 s/on 10/21 in vernaculars w/fadeout 0650 and good/(WRTH) WOI. Does rotate languages w/EE on 10/22 but much weaker however. Slight WOI slop. (RG-IL)
- 1225 -COSTA RICA TIBB San Jose 10/22 w/call standing out clearly above the WCAU splatter in voiceover s/off 0600, given by a woman, not a complete ID by any manner of means. WCAU is a pain in the ... TIBB new. (TRS-NJ)
- 1371 -MEXICO XEA R. Variedades, Caspeche quite strong and separable; first noted 10/22 0031 w/standard Mexican type "Radio Variedades" jingle, many ads including one for a business "frente a Zapateria Maja"; finally at 0035 YL soloist w/different "Radio Variedades" jingle; CST TC's; 0145 YL concluding interview program about fruits; no call letter ID until 10/23 at 0358 s/off until 5:55 return and quickly off at 0359. Nominal 1370; best bet for Caspeche. (GS-OK)
- 1380 -CHILE CB138, R. Magallanes, Santiago is now here ex 1010 w/50 kw. (WRTH)
- 1470 -GUATEMALA The station I discovered last season on 2nd harmonic of 2940 is new 1 kw outlet R. Rosa in Chiquimulilla, Santa Rosa, per info from the station supplied to WRTH. (GH-CK)

REPORTS

RG-IL Roger Giannini, Belleville, Ill. HQ88, SW2
GH-OK Glenn Hauser, Stillwater, Okla. HQ-160, SW2, Various LW
TRS-NJ Tom Sandstrom, Willingboro, N.J. HQ-150, HQ-140X, EX150A, SW2, LW
WRTH Material supplied to WRTH by Torre Ekblom and forwarded by Glenn Hauser

A few verifications all from Gregg Colkin while doing in Spain.

- 557 ENGLAND IEA/London sent friendly letter verifying this and 719 in 3 months, 2 weeks after f/up. Transmitters at the rary site at the Lots Road Power Station, Chelsea, London. Reports for tests (as opposed to London Broadcasting Co/719 and Capital Radio/5 now on these frequencies) should be sent to 70 Brompton Rd, London SW3 EY. V/S John Lovell, Engineering Information Service. IEA now testing on 1115 kHz.

INTERNATIONAL WATERB R. Veronica sent beautiful blue photo folder showing ship, plus data, position, etc. 3 months air for mint stamps and a f/up 2 months after original report. Subsequently had the opportunity to tour their studios in Hilversum.

- 836 SPAIN R. Peninsula de Huelva sent friendly letter, regular RNE QSL, SWBC service asked and brochures on Huelva region from Enrique Fonce Ramos, Director. 5 days for mint stamps.

- 960 ITALY Trieste A sent a friendly letter in EE direct from Trieste; full data.

- 1187 INTERNATIONAL WATERB R. Seagull sent friendly letter from R.J. Neakes in 1 1/2 months air for mint stamps. Includes details of the ship and gives confirmation statement and date.

Glenn Hauser has supplied a large amount of information about Latin America that came from World Radio TV Handbook. I pulled a few items from this info and used them in this column. Since most of the material concerns low powered stations on unlikely frequencies, and will appear in the new WRTH in a couple of months I am not going to run it all here. If any questions come up about new stations, changes, etc. it is available. Thanks Glenn.

LET'S SEE SOME MORE SUPPORT FOR THIS COLUMN. SURELY SOME OF YOU ARE HEARING SOME DX

editor.. Ernest R. Cooper
438 E. 21st St.
Carrier Route 56
Brooklyn, N. Y. 11228

musings of the members

19

RICHARD WOLF - 7410 South 127th - Skyway, Washington - 98178

One question here. Does anyone know the history of WABC? The story I got from old "Radio Broadcast" magazines is this: WABC was one of many unpopular advertising stations that were around then, owned by the Ashville Battery Co. in Ashville, N.C. This station signed off for good late in 1926 & the call was put on the inactive list. In 2/27 the Atlantic Broadcasting Corp. bought A.H. Grebe's WAHG & WBOQ in NYC. They were combined & the new station was given the call WABC, operating w/5kw on 950 & sharing air time w/WGBS. (This was another NY station, not today's Miami station). Things grow foggy here because ERC says the then WJZ is today's WABC. Who got the correct story? Oh yes, if any of you wondered what a WR-7 was (DDXD 9/29) I'll tell you. A WR-7 was one of three models made by Westinghouse back in 1930. It's an efnt tube superhet w/a 175k I.F. Selectivity is good on most of the band because 1080 & 1100 are DXable w/little splash from KING. CER-1010 I&V right next to KOMO-1000, & 1290 & 1310 DXable w/little splash from KOL-1300. The low end is less selective though. KVI-570 has excessive splash & sometimes interferes w/DX on 550 & as far as 590. I've had more than my share of problems w/the I.F. transformers this last season & figure it xs the low selectivity problem on the low end. Strangely enough, it didn't have one breakdown all Summer (since 7/8) so it's way past due for one. Since I don't think it will survive as a DX rig too much longer, I've started building a DX RX from some surplus junk I got. This might be more or less 20 lines so I better split. Next Muse will have DX in it. 73.

DICK TRUAX - 3003 Gleason Lane - Jeffersontown, Kentucky - 40299

It appears I erred in my last Muse concerning possible pattern change of local WAKY-790. All four towers are back up again but at least twice as tall as before. (Maybe they just grew a little?? -ERC) Station claims for improved night signal coverage, now all I see out my window are four towers & an NSP pest! It appears WKLO-1080 SP is MM 1-5:30am. WAVE-970 is off MM 12-5am. Cool clear nights have improved CX but nothing spectacular yet. Current total heard is 440 - a long way to go. Interesting to note Bruce Winkelman is now in Man, W.Va., one of my regular stops when living in W.Va. two years ago. Now two NRC members know where Man is located, hi! Best of luck to NJPC & hats off to the efforts of EPC. I spent 9/12-13 in Montreal & discovered that there really is a WVMT-620. I wish I could log it here. WPTR-1540 also very dominant nights in motel room. I'm surprised that WKBW-1520 was just audible & not strong at all. So much for odds & ends - I have had a resurgence of the DXing bug so I will be more active this season than last. More later.

KEN ONYSCHUK - 12934 Page Court - Blue Island, Illinois - 60406

I couldn't find a pen that writes so here's one Musing in pencil you can read ERC, hi. (Right - chalk is OK - anything - as long as it's double-spaced, hi -ERC) 10/17- Wed., 1am local WJOL-1340 s/off brought in two new ones in 35 minutes of luck. 1:03, to SW, I heard announcer remark "WJFP NXtime 1:03" Sudden spurt from Herrin, Ill. & 23 minutes later @ 1:26 I heard good "ten second signal" of H.S. FB promo on WIZE, O. I stuck with it long enough to catch male vocal & ID @ 1:35. Then about 18 hours later @ SSS I heard KFDF-1580 s/off at 7:45 w/good signal. Then rr, ID @ 7:50 of WCIS, Ga. After catching KBOX-1480 Texas at around 2 last MM, I decided to try for it again at SSS. Almost - some rr between 7:45-8pm but a newie w/ID @ 8 - KLEO-Kan. Then Thurs. AM just after 9, after leaving it on 1520 the night before I decided to play with it during breakfast. Lo & behold, KOMA OK @ 9:06 w/local ads, rr, then back & forth w/KMPL Mo. a few minutes, then KOMA in solid again w/NX @ 9:15, then WX, ID @ 9:20, very nice for one hour & 15 minutes after SRS! My work hours were changed last week to 10 6:30. It makes DXing in 'M more challenging. I will close for now. I received # 41 last week & enjoyed it very much. I'm looking forward to seeing more of same. Best of luck to NJPC. 73s.

AS THEY SAY IN RAPID CITY, S.D., "KIMM." "KEEP IT IN MIND - MUSE!"

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

I'm trying to get back into the swing of DXing, but with the severe congestion on the band these days, not such new stuff is making it through. New loggings: 10/13- WKIS-740 Fla. @ 1:45am. This one now regular here, never heard in Ithaca. 10/14- CKLB-1350 Ottawa, Ont. @ 3:00am, WQJW-1140 NY. @ 6:20pm WBSX-1280 Pa. really cutting up WABC @ 5:28pm s/off. 10/15- 10/15- KJJO-1550 Mo @ 1:11am, testing I think. 10/16- WGRB-1110 Mass. @ 6:16pm s/off. 10/17- Bunch on 1470: WHYY Va. @ 5:44pm s/off, WVEB N.C. @ 5:45 s/off mentioning 99.9 FM, WINH S.C. s/off @ 5:46 mentioning 97.7 FM. 10/18- WAIY-1420 N.Y. @ 6:14pm s/off. 10/20- WRAB-1000 Va. @ WCFR & SS @ 2:48am, ET. I note there is much more SS on the lower half of band here than in Ithaca; I'm a little slow in IDing it. By tuning across the band at night here you would think you were in Florida or something instead of the N.E. USA. Today I spent about an hour tracking down the local pirate, WPLW-640 "Bridgeport." The station is located in the NW part of the town of Stratford, Conn., 7.1 miles from here, 4.5 miles from their announced XR location in Trumbull, also 4.5 miles from their announced studio location in Bridgeport, & 3.4 miles from downtown Bridgeport. Although they announce an "effective radiated power" of 80w, a check of their coverage would indicate an effective power of maybe 3w. Their XR may have input power of 80w, but they probably have a very inefficient antenna. The announcers sound like high school kids, & they all have fake-sounding names. You might try 'em @ SSS if CBN & local college stations don't bother you, but I doubt they'll get out. Sked is M-F 2-7pm. Not on weekends. 73.

HARRY HAYES - 1418 Mount Royal Avenue - Apt. 2 - Baltimore, Maryland - 21217

The season is in full swing with its share of good & bad days. I plan to report now weekly if possible. I have Mondays off for this school semester so MMs are at my disposal. Unfortunately I've been too tired or CX were bad for me to take advantage of most of them. Here is what's been heard on these Fall days, 1973. 9/24- 12:17am on a MM, WSAR-1480 Mass. fair w/SID. WIAC-1510 Tenn. @ 1am. 1:21, WSPD-1370 O. w/comment, in weakly. 6:47pm, WSAN-1470 Pa. good but w/deep fades. WCOJ-1420 Pa. strong at times around 7pm. 7:28, WETX-1470 Va. w/MOR & s/off, weak to fair. 10/14- At SSS 6 09pm, WRNL-910 very strong w/local NX of usual WBSA. 6:20, WNCT-1070 N.C. 6:30, WSVS-800 Va. on s/off. WTAR-790 Va. 6:40, WFIR-960 Va. 6:50, CKLM-1570 Que. 6:58, WKYE-1550 Bristol Tenn. w/c.w. 7:06, CHML-900 Hamilton, Ont. in at good level w/Marathon Movie Quiz. 7:10, WARM-590 Avoca Pa. good at times, despite being in their null, w/Sunday Sports Line w/Scott Arthur. MM 10/15- 1:30, tentative KATZ-1600 Mo. 2:12, CFGO-1440 Ottawa fady w/super rock. 10/20- WVAB-1550 Va. @ 6pm. SM 10/21- A good one at that - 2:30am, WBNF-1290 Binghamton N.Y. during WFER's SP. 2:42, WRBC-1300 Jackson Miss. in fair at times w/rr & telethon for a children's hospital. I sent for a verie. That about concludes it for this time.

BILL STONE - R R 1 - Locust Hill, Ontario - L)H LJO

Note new address as of 10/31/73. This place is four miles SW of last farm - Claremont - on No. 7 highway seven miles E of Markham - house & 11 acres. Hot tip: 11/7 - 3:15am - WEDG-1240 Soddy, Tenn.'s next f/c. I heard him 10/3 doing ET 1:30-2 EST. Veries in: KANE WNIC & WEDG. 3,024. (Welcome back to the NRC, Bill! -ERC)

RICHARD WOLF - 7410 South 127th - Skyway, Washington - 98178


Howdy again all. In my last Muse I promised to report DX, right? Well, forget it. You can add me to the list of DXers who are no longer DXing because their DX RX doesn't DX any more. That's right - my old Westinghouse went on strike, hi. The problem turns out to be the I.F. transformers again. The insulation between the winding wires is cracked in numerous places so it arcs when you tune it. This causes a loud popping that plays havoc when you want the weak ones. Problems always seem to arise when the DX season starts picking up. Well, I best get working on this heap so I can listen to nrxr Summer's static. I hope the rest of you fill your logbooks this season. 73.

THIS IS A PRETTY FEEBLE-LOOKING SECTION THIS WEEK, BOYS! LET'S HEAR FROM MORE OF YOU. WE HAVE A THURSDAY DEADLINE AND WE WANT YOUR WORDS IN HERE! BE SURE TO ~~USE~~ WITH IT AND DOUBLE-SPACE US SOME 20-OR-SO LINES FOR THE NEXT DX NEWS! LET'S LEARN WHAT STATIONS ARE SLIDING DOWN YOUR SM-2 AND INTO YOUR SP-600 or WHATEVER!

GEORGE B. SHERMAN - 104 Pinewood Circle - Rosemount, Minnesota - 55068

Five months no DX, so no reports. Sorry 'bout that! Since last Musing, some new ones: MM 4/2- WHII-1570 Miss. TEST w/TT/DT, code IDs, fair to good o/u XERF @ 2:10; KBUZ-1310 Ariz. semi-cl @ 3, weak, no QRM. MM 4/9 was great! CJOI-1440 Alta. messing up local KQRS @ 2:10 w/"Parkland WX". 4QD-1550 Australia, finally @ 4:08 weak, no QRM, accented EE talk fading in/out, no dx, country #43. This on \$27.95 portable & \$5 loop, so you don't have to be rich to hear Australia, hi! KBBS-1540 Wash. EL mx @ 4:15 w/K EL OC & ZNS; WDRC-1360 Conn. strong w/QRM w/rr on day pattern @ 5:25am. WCTP-680 Ky. strong w/c/w o/QRM @ 5:40am on 4/11. New Season's DX started 9/30 w/KEUG-1060 Mo. ET/OC/ID good o/nullled KYW @ 1:50am. 10/6- KMYO-1050 Ark. first Sat. r/c fair w/XEG @ 11:24; WTOO-1390 O. s/on-SSB u/WNUS @ 6. MM 10/8 found strong TT on 1230 disappearing @ 4:47am just in time to hear KZZA Colo. o/all w/SID, WX & rr; WJIS-500 W.Va. @ 5:15 w/"All Hit Country" Drake Rock-sounding SIDs good w/KLZ; CFPL-980 Ont. @ 5:30am good in mess & again next week, now becoming a pest after never hearing in five years' serious DXing. Guess that's DX Law #2, #1 being ID fadeout, hi. MM 10/15 I discovered CHWO-1250 Ont. good w/instrumental MOR o/nullled WREN; WTAE off MMs now! 775 SS is R. La Presna, Guayaquil, Ecuador, listed 5kw on 770 in old IA Log. Postage 10¢ an ounce in January! That makes veries almost as expensive as RXes, hi. I have to send ERC 30 lines to get my money's worth. I pay \$32 a year for membership in NRC, IRCA & WTPDA. I hope P.O. doesn't make us fold up. NSP's cause enough problems, hi. I'm in favor of the 24 page bulletins on thinner paper. This will likely be necessity to keep dues down. I just sent for SX-71 IA/TA fever strikes again! Everybody write! I have 100 8¢ stamps to use before rate increase, hi. Phone 588-2618 2pm Sun. - 5pm Fri.; 432-7975 7pm Fri. - noon Sunday. All local members please call, & DX members if you want to pay, hi. I hope to C U in Toledo! 30 lines & two minutes till MM & DX, time to s/ off. 73, DX & REPORT!

ERNEST R. COOPER - 438 East 21 St. - Carrier Route 56 - Brooklyn, N.Y. - 11226

This season is rugged so far - I'm off like a pack of galloping mud turtles! Sat. 10/20- Somebody u/local WENX giving them a real good fight w/tt - it couldn't (legally) be WAWZ, but was sure strong - anybody know who this was? France-1205 noted @ 1:51 w/WCAU splatter. Even on non-MMs, WKPQ-1320 is on top here during the wee-see hours, hi. Someone in another club here these IDs (13-2) and thought this was a bootlegger, hi! Anybody know, incidentally, who Q-13 is? Answer next week! Rarely heard CHIR-730 was atop CKAC today w/rr. On 740, unn KRMG was rolling in, another one I haven't heard in years. Unn WQQW-1590 noted AN, on top. SM 10/21- I got to the dials just in time to hear the one I was after sign off - R. Mil-HIBE-1180 - this @ 1:54am. They'd have been easily loggable today too as they were mucho strong. Then when they left, old friend R. Globo boomed in, a regular SM visitor, here. WENX-1380, local AN pest, is silent SMs! WHAS-840 noted still on RX @ 2:23 - they had been off Sundays. MM 10/22- I'm still beaching it and so was kinda tired this AM, but a little unfruitful tuning. At 1:50, on 675, an SS with slogan "Ondas----" noted, this one could have been a  as they faded out around 2. That'd make it 674 I reckon. On 680, unn CFR Toronto in the clear with the Zampé Overture @ 1:48. 1590 was ruled today by WEIT, Md. w/WQQW off and o/WAKR. An OC on 730, could have been CKAC for they were not noted. There were two OCs on 1090 @ 2:17. By 2, WHN had gone to bed, and what's this? CHUM also off, and XEG heard weakly there but nothing new, darn. Local WWDJ-970 was off RS but ETing @ 2. WHO-1040 was getting jouneyed by an SS and there was a weak one on about 1045k too, but I couldn't keep the peepers open nor the ears, either, so to bed. C U N 7.

MODULATION ARCING

JERRY STARR

How many times have you noticed modulation peaks from a nearby station showing up a various places on the band? The condition may last for a few minutes, several days or weeks and then mysteriously disappear. Likely as not, this is caused by arcing in the antenna system at the station.

First a bit of background information is necessary. A radio tower is a natural target for lightning strikes, to be sure. High winds and nearby storm conditions can also cause a static charge to build up in the antenna system. Needless to say, these conditions if permitted to build up in the antenna system can cause havoc with transmitting and tuning equipment. To prevent this, a type of lightning arrestor is installed at the base of the tower; usually two metal balls or strips placed close together, but not touching. One side is grounded, the other connected to the radiating structure with an air gap between these elements. During a lightning strike or static buildup, the charge will arc or spark across the air gap thus furnishing the shortest path to ground and protecting the equipment.

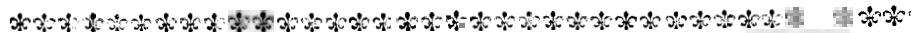
The adjustment of the gap size is critical; the closer the elements are, the smaller the static buildup before discharge. However, if the gap is too small, the RF energy from the transmitter will also cause arcing, especially during heavy modulation peaks. The gap should be adjusted to just beyond the point where this modulation arcing occurs.

Over a period of time, antenna towers move around quite a bit due to wind and ice loading, ground settling, temperature changes, and so forth. Since most types of arc gaps incorporate one element directly attached to the tower structure, this tower motion causes minute changes in the gap distance. The result: arcing on modulation peaks of antenna current. In effect we now have a regular old-fashioned arc transmitter as used before the development of vacuum tubes. Because arcs and static have no specific frequency, but instead cover a wide band of frequencies, these signals can appear practically anywhere on the ECB. At close range, the signals will probably cover the entire band. At a greater distance, the interference will be heard only at certain "hot" places on the dial due to the arc's interaction with the transmitter tuning equipment. Inasmuch as the degree of arcing follows the pattern of the audio being transmitted, it will be received as audio, though highly distorted. There will be no detectable carrier, but only distorted audio. The Top 40 stations that, by the nature of the music, have the highest level of modulation, are particularly prone to develop this problem; the greater the modulation peaks, the stronger the arcing.

Unless this situation is severe, the condition will not be detectable on the station monitoring equipment. The signal fed to modulation monitors is taken from the transmitter itself, not from the signal actually being radiated by the antenna. The effect on DX'ing can be devastating. Even a very weak signal, which would not bother the average listener tuned to strong locals, can make DX frequencies unlistenable.



Needless to say, no station wants this condition. If such interference is noticed and can be matched up with the audio from the station producing it, call or write the station and explain what you think is happening. Station engineers usually will be glad to be informed of the problem and will probably correct it with haste, FCC regulations being what they are. Just be certain you don't confuse the problem with other forms of spurious responses, such as images, which are entirely a different matter. But if you notice distorted and "smoared-out" spurs without carrier, it is likely to be modulation arcing.



WABC Does Its Thing..... Again !!!

New York- Oct 22, 1973

WABC-770, the powerful 50 thousand watt flagship station of the American Broadcasting Company once more plagued by indeterminate transmitter or modulation transformer problems as in June and July 1971 (see DX NEWS, August 28, 1971 for details) is now putting out spurious emissions into the ether, 27 kHz on both sides of 770 kHz, or 743 and 797 kHz. In addition, raucous buzzing, sputtering and extremely distorted audio has been noted in NJ around 740 kHz. Strangely enough though, the spurious emissions miraculously disappear when WABC is nulled down 52 db with an Altazimuth Loop antenna. These spurious emissions reported by WCBS' resident DX'er, Robert Foxworth are confirmed by prime evening time monitoring carried out by the NJPC on 21 October 1973.

We hope the responsible people at WABC will quickly resolve the problem in order to give the Medium Wave DX community and other interested parties, PHIS, etc a "break" from the interference s that Tel Aviv, Isreal on 737 kHz may be heard during this most crucial period of turmoil in the Middle East.

We do trust that the valiant, ever-ready and omni-present FCC will do its utmost to deal equally, without prejudices, with this violation of transmissi on unauthorized frequencies as swiftly as it is doing in the case of Dr. Carl McIntire and Radio Free America.

see A DX Service Announcement from the HRC see

RADIO SABADELL
COMPAÑIA DE EMISIONES Y PUBLICIDAD, S. A.

WLW Founder Powel Crosley, Jr., at the Harrison, Ohio transmitter (1923).

Photo reprinted from The Blade Sunday Magazine as sent in by Dan Myers. The issue contains a several-page spread on WLW "The Nation's Station" during its heyday when it ran 500,000 watts. The station claimed many "firsts" among the more notable of which were:

- The first drama written especially for radio.
- First regularly scheduled newscasts.
- Popularizing the first radio hit song.
- Winner of the first Peabody Award.
- First broadcast of radio musical drama.
- First to hire its own weatherman.

Many "name" stars of radio & other media got their starts at WLW in this period including The Mills Brothers, Durward Kirby, Mia Perkins, Dr. IQ, The Ink Spots, Andy Williams, Red Skelton, Doris Day, Red Barber and Rosemary & Betty Clooney.

We'll be running more from this article in future issues as space permits. Hopefully such super-power will never happen again. Although several applications are still pending, and rumors are rife, we now suspect that the energy crisis may well be the weapon which will put such pretensions to waste for once and for all. Meantime, write your congressmen to require all stations to sign off from midnite to 0500 LT to save energy !!!!

