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Volume 32 - Number 4

Year 32 with Lots for YOU!

October 24, 1964

			100				
					_S_P_E_C_I_A_L_S_		E. S. T.
Mon.	Oct.	26	WMGO	1370	Canton, Mississippi	1,000	3:00 - 3:30 TEST
			WKBR		Manchester, New Hampshire	5,000	3:00 - 3:30 N R C
		26	K D W A		Hastings, Minnesota	1,000	3:00 - 3:30 TEST
			KISM	1530	Shakopee, Minnesota	500	4:00 - 4:30 TEST
Mon.	Nov.	2	KTTT	1510	Columbus, Nebraska	1,000	3:00 - 3:30 TEST
		2	CFCH	600	North Bay, Ontario	5,000	3:30 - 4:00 NNRC
		2	KNBI	1530	Norton, Kansas	1,000	3:30 - 4:30 NASA
Mon.	Nov.	9	WAGM	950	Presque Isle, Maine	5,000	1:00 - 3:00 IRCA
		9	WYNS	1150	Lehighton, Pennsylvania	1,000	4:30 - 5:00 TEST
		9	WDOV	1410	Dover, Delaware	1,000	3:15 - 3:45 IRCA
Mon.	Nov.	16	W D C J	1220	Jacksonville, Florida	1,600	3:00 - 4:00 TEST
		13	WMDD	1480	Fajardo, Puerto Rico	5,000	3:00 - 4:00 NNRC
		16	CJCB	1270	Sydney, Nova Scotia	10,000	4:00 - 5:25 Pop*T/NNRC
		13	WKTE	1090	King, North Carolina	1,000	4:30 - 5:00 TEST
Mon.	Nov.	23	CFJR	1450	Brockville, Ontario	250	2:30 - 6:00 NNRC
			CFRY	920	Portage la Prairie, Man.	1,000	3:00 - 4:00 NNRC
			CFTK	1140	Terrace, British Columbia	1,000	3:30 - 4:30 NNRC
Mon.	Nov.		WPLM	1390	Plymouth, Massachusetts	5,000	3:30 - 4:30 N N R C
			CBAF	1300	Moncton, New Brunswick	5,000	4:00 - 5:00 NNRC
	Dec.		WLOB	1310	Portland, Maine	5,000	3:00 - 3:30 I R C A
	Dec.		PJC7	1500	Willemstad, Curacao	1,000	3:30 - 4:30 NNRC
	Dec.		CKML	610	Mont Laurier, Quebec	1,000	3:00 - 4:00 NNRC
			ANOF	825	Managua, Nicaragua	15,000	3:00 - 5:00 NNRC
Mon.	Dec.		CKTR	1150	, .	1,000	2:00 - 4:00 NNRC
		•	CKAD	1490	Middleton, Nova Scotia	1,000	2:30 - 4:30 NNRC
			VI DEL	1150	Wilmington, Delaware	5,000	4:00 - 5:00 IRCA
Eri.	Jan.	8	K S A Y	1010	San Francisco, California	10,000	3:30 - 4:00 TEST

KDWA

It was on 10/24/63 that KDWA began regular broadcasting - just one year ago, and to date few DXers have logged them, as they have no early-morning frequency check. The 1460 spot promises to be clear at this time, and the 1,000 watts should be heard great distances. This will be a special equipment test; we understand, the first such since their grand opening a year ago, and we learned about this test, via Len Kruse, a bit late, so it didn't make the previous issue, unfortnately. We hope many of you did get this test program, and reports should go to Mr. LeRoy Sanders, CE. /SEE P. 10 FOR

/INFO ON TESTS OF/ K_T T_T_ /CFCH & KNBI. /

Here is another special TEST broadcast which Len Kruse has informed us about, to be conducted by rarely-DXed KTTT, which has no early morning frequency check or test sked. They have been in operation in December 1962. At this hour of a Monday morning, 151C is generally clear, so that everyone ought to be able to hear their test program. The info on this TEST was received from Mr. Ray F. Syslo of KTTT. We do not know what the station will use for modulation, so be sure to tune in and try for them on this clear dial spot. Our thanks to Mr. Sysle for this tip, and we hope many hear the test.

540 550 570	WfB I C CqF N B W G M S W K Y B		1270 1280		Thos.W.Stevens, STB James Thomas A Unsigned A Wm. Smith A
710	CKVM		1310 3	WGSA	Unsigned A
730	CoKmD M			WIFE	Jerry Weist, CE A
790	WJJC	,		WKAF	Chas E LaBar, CE H
\$ 00	PfJ B	· ·	1340	WTRC	James R. Isham A
000	PoJ B	v	3 1380		Ivan Miles, CE A
900	CJBR	Andre Lecompte,		WrL C Y	Jackson G.York, CE I
010	α _α φ. Λ	VP & GM H	•	WJLB	G.E.Ryan, CE A
910	CqB: O KARK	Mrs. G.Ethier, Inf.		WqC O J W H H Y	Louis M. Seltzer, CE Ed Bycroft, CE H
1070	WHPE	Unsigned A Gary C. Davis, P			James Blaine, CE A
1090	WGLG	Clarence O. Morgan, C			R.E.Lee Glasgow,
	Wuk ImE	Grant Smith, CE F			VP & GM A
1150		D.A. Engelhardt, CE A	1470		Paul J. Mueller, CE
4400	WDEL	Jos. W. Jones, XE John C. Postema, E	1490		T.L.Estess,M B
	C BeN C			WGIC	Richard A. Moran, CE
	WCNT	James E. Palen, GM A Unsigned		WHHM	Leland Bailey, CE A
1240	WROV	Unsigned Alfred Beckley, CE		KCAT	Pat Buford, M F Robt.J.Bolden, GM C
	WhJfN C	Jas.B. Hartline, CE		WqM I R	Dale Martin, CE C
1580	W Z KqX			WPXY	Chas.C. Travis III,
	WAXU	Kohn M.Ingold, CE B R.E.Valim A		small basis	PD D
1590		Raymond C. Stockard	1, 1560	WGLB	Frank A. Stelloh, C. Chas.M.McCraw, CE C
	WUSO	Roger A. Holste, CE			Jaques StPierre, F
	W T VqB	V.Royer, CE	1	w munns	D.M.Dasher, CE F

Russell J. Edmunds - Box 435; 415 University Pl. Syracuse, Hello again! Well, DX is really rolling here, even on the old RX!!! Just 2 weeks and the HQ-100 will be here. New loggings include: 590---WROW;-600-CFCH;WPDQ-!-!-!;-640-WHLO;650-WSM;820-WFAA;WBAP;830-WOCO; 834-R.Belize; 850-WJW, WHDH; 870-WWL; 900-CJBR, 950-WWJ; 960-WEAV; 990-CBW; 1070-CBA; 1090-WBAL; 1140-WRVA, CBI; 1160-WJJD; 1165-R. Americas; 1200-WOAI; 1230-WENY;1290-WHIO, WKNE;1310-CKOY;1320-WJAS, WKAP, CK EG; 1330-WHOT;1380-CKLC;1400-CJFP;1420-CKPT,WBEC,WCOJ; 1430-WENE,WVAM,WNJR(1st NJ; state # 22 here)1470-WBZE;1590-WAKR,WCBG; 1600-CJRN (not CHVC as listed last week),WTYM,WAQI,WWRL,WHLL,WHOL,KCRG. One other logging: One on 1590 talking like from the Pittsburgh Pa. area. Known as "Tiger Radio" (noto be confused with WHLL-1600!!!) sounded like WVEN. Any ideas, ERC, Dick, Mike Tilbrook, others????? HELP? Total now 167. One rotten reporout. WHLL-1600. Wheeling W.Va. was really coming in Monday (19th) eve. WWVA, WHLL, WBZE, all in well.SC's now at 191. The following people owe me letters : FRANK MERRILL; JERRY BOND; HERB PAPENFUSS. I can hear al. sorts of nice hets. but no can log with this monstrosity. One very low u/WGAR-1220. Who? 1600 holds the most loggings here with 10. Least is a big tie: 1340,1270,1250,910,630,580,540. Should I count my loggings here and in NJ for one deal. Veries as one in Supremacy ratings??? ER(what you think??. No can make the 11/28 get-together in NYC. Stamford Conn. in December, Jerry?? How 'bout a big Gabfest, hint, hint.. Well, from the HQ-100-less wonder of SU (ORANGE BOWL BOUND) its 73 ses (Russ--Your Pittsburgher on 1590 is WZUM Carnegie, Pa. ZOOM RADIO) RHC

3

Henry J. Wilkinson Jr. - 6620 Beeman Avenue - North Hollywood, California After a very slow start at the dials this season I finally managed to get a few reports out for the NRC Foreign DX Contest. I understand that Hoy Millar and Clarence Freeman got away to a fine start and I wish them lots of luck. I have 26 days of vacation due me and I decided to take a week or so as of now. This should help me lay a foundation for some of those distant stations that I'the need to be competitive in the Western League. To those who are interested in the several certificates, that were discussed at the NRC Convention, let me say that we are making headway and the Club members will be advised in DX NEWS as to their availability. These certificates are NOT just for those who support and contribute to "Supremacy Ratings" - they are for all NRC members who can support their claims when requesting for either or both certificates. It is my fondest hope that each NRS member will take an interest in this particular phase of NRC activites as it has taken a lot of my time to get this "on the road." I and many other NRC members feel that this certificate award is wanted and needed for a progressive DX organization. We hope that the members will accept this idea of progressive awards. It should have started many years ago. My thanks to those members who felt the same way I did, and helped to "put the idea into reality." Looking forward to a fine DX season among the DXers who favor domestics, foreign or both. By the way, MM 10/12 was one of those "TP" mornings that will be hard to forget. I wonder how many Mid-Western and Eastern members heard stations in Japan, China, Korea or Asiatic Russia? What a morning! 73. (I got Mexico City, Hank, hi -ERC)

Jerry K. Conrad - 712 South Limestone - Lexington, Kentucky - 40508 This is the first Musing for me though I have been a member for a year now and am just a lazy Muser. First, a little about me. I am 21 years old and a Senior at the University of Kentucky. My logging results so far are 1,428 logged, 418 verified, 34 countries logged, 20 verified; 48 states logged, 46 verified. RX is a Hallicrafters SX-. 110 and I have a 250 longwire and a 4 1/2 foot loop. Now for real DX (at least it's DX, ht). Logsings by date since 10/1-10/2-CSA2-665 Lisbon 6:45pm. 10/5- KRDS-1190 Tolleson, Ariz. @ 1:05am, WJCO-1510 Jackson, Mich. @ 1:40am f/c, KWOA-730, Worthington Minn. 6:45pm. 10/6- Klww-1150 Rapid City, S.D. 5:10am f/c, WABZ-1010 Albemarle, N.C. 5:35pm. 10/8, another very good TA night here. BTM-701 Sebaa-Aioun, Morocco, 6:55pm, RNE-684 Ladrid, Spain 7:10pm. Others noted and either already logged or signed off before I could get copy on them. 10/11- WMAM-570 Marinette, Wis. 1:05am s off; much= wanted here. 10/12- WRIS-1410 Roanoke, Va. 12:10am ET; CKSL-1410 London, Ont. 12:20am KIHN-1340 Hugo, Okla. 1:05am f/c, WATC-900 Gaylord, Mich. Bam f/c; KOLO-920 Reno, Nev. from 2-2:15em at s/off with S-8 signals; KOYN-910 Billings, Mont. 2:45-3am f/c, IDs in code; CFJC-910 Kamloops, B.C. 3am w/CEC Vancduver NX. CFCY-630 Chadottetown, PEI, 4am w/time 6 m ADT and Maritime NX. Who?? was EE u/them? Maybe WC. That is about it for new ones. Veries here recently: CFCN WINS WMEX KRDS WSAM WOOD KLAS KWBA WGET VOA-1040 Tortuga Keys. Another question; who is EE on 1200 with religious program after lam MMs? WOAI off - help! Come one, come all - as they say in Lethbridge, CJOC - Come, Join Our Contests! It is your Club - support it! That's all, folks! 73s. (Welcome to these pages, Jerry, & we wish you well with the two Domestic Contests! - ERC)

Stan Morss - Route 3 - Bradford, Massachusetts - 01832 9/23- CBA-1070 off and WFLI testing at 1:59. WBSM-1420 AN way u/WHK. WSAR-1480 Fall River on for Hurricane Watch. CBC-1490 AN again - CKCR I presume, per bulletin. Verie from DFON for first new verie of 1964-65 season. 9/28- WNUS-1390 reported 1:40-2 QRM by WEAM. WBBR-1580 Travelers Rest, S.C. ET 2:19-2:35am. WGY-810 off this AM; some TT there during morning probably was they. Musical broadcast u/KIMN at 2:48 but not able to get ID. Wilitary band on 1000 at 3am but no ID & off 4:03. 10/5-Wow, what TAs! Copied Barcelona-737, 1150pm\220DOam for a report. Andogra-818 in With loud signals but fast fades and tape recorder not hooked in so no report - a new country, too. Spain on 584 strong, also many BBC & Spanish all over the dial. Why so man my Spaniards I wonder? At least 8 or 10 heard. 10/5- WKBX-1500 Winston-Salem ET 1:15 am. KCAT-1530 Pine Bluff, Ark. ET 1:17am for a new one. KGMR-1500 Jacksonville Ark. concluding f/c 1:35am but not enough for a report. WMMH-1460 Marshall N.C. to 2:30 for river watch. WIND-1400 AN topping frequency. I hope to make your get-together on 11/28, WX permitting - still almost no rain up this neck of the woods. No claimers on the lollypops - guess they may be Sam's. (Is that what was wrong with him? Hi -ERC) AS THEY'RE SAYING IN SELMA, ALA., "WRWJ." "WELCOME RICHARD; WELCOME JOHN!"

4, 1964 D.X. N.E.W.S.
Curt¹Engberg - 80 Concord Road - Wayland, Wassachusetts - 01778 It's been a busy summer with change of QTH, trip to minimusota, and aiding in establishment of a new local church. While I haven't been wusing, heither have I been missing the excellent Summer CX. Back to 6/24 WVOT-1420 logged at 11:15pm. 6/27- CFFM-1440 @ 12:30am. 7/22- WOHO-1470 at midnight. 7/26- CFDA-1380 at 11pm. 8/21- WBCI-740 at 11 pm. 9/28- Long-desired WAWZ-1380 at 6:30am s/on, thanks to sked tip in Musings. Heard on mumerous occasions this Summer and early Fall ZEM1 and ZEM2, 1235 and 1340, respectively; YVOZ-1200, Radio Belize-834, Bonaire-800, YVQ0-650 (s/off @ 10:30pm), and finally Dakar-764 on 10/11 at 7:30pm. Mystery here was loud but brief foreign on 782 With Westminster Chimes followed by 11 strokes at 7pm on 10/10. Could this be Lisbon? Other Summer catches include WHBG-1360 XEQ-940 XEOY-1000 WPUV-1580 CMCA-830 CMCY-590 CMK-720 XEB-1220 WHOL-1600 and VOA-1180. My thanks to Bill Stone and Jerry Conrad for their letters, and my apologies for lack of response. It's shaping up like a banner year, so guess I'll have to get busy and build the loop to supplement my 100 EW longwire. (Sounds like Lisbon above to me -ERC)

Ronald J. Musco - 127 Park Avenue - Windsor, Connecticut It's been a long time since I Mused - school and work are the reasons. Since last Musing I've installed two more antennas - a 100' longwire and a folded dipole 60' long, running E/W. I'm going to buy a Knight %-55A RX and put the Heathit "Mohican" in my car. News from The Hartford Times of 9/10/640 WSOR has been off the air for a month, and granted a permit by the ICC to remain closed for 90 days. They're going to build (locate) an office trailer at 741 Bloomfield Avenue (location of its three towers). They were formerly at 118 Poquonock Avenue. From the 10/17/64 "Tines," application made to the FCC for transferral of license from Tobacco Valley Broadcasting Co. to Robert I. Wimel and Bessie W. Grad, purchasers of WSOR-1480, Windsor. WSOR will be the third station owned and operated by this group. They presntly own WWSR, St. Albans Vt., and WSNO, Barre, Vt. That's the latest about WSOR. Small DX item from here -PJB-800, Bonaire heard S-9 night of 10/5. Report sent to Holland and colorful QSL card back on 10/16. Country #7 for me. Also an overdue QSL card from WXTR-550, for a report of a year ago. I'll be doing some more DX shortly. Till then, 73.

Mike Bugaj - 197 Boston Road - Middletown, Connecticut - 06457 Just a short Phising this time. New loggings are: 10/2- WPPA-1360 @ 7:54pm. 10/4-WBBR-1580 @ 1:30am f/c, WBGS-1560 @ 1:58am, WARV-730 @ 1:31am, KVIM-1360 @ 2:55am, WPOR-1490 @ 5:13am, WSMB-1350 @ 5:16. Most of these were on hurricane alert. Also added WACY-1460 @ 2:35am. 10/5- KCTX-1510 @ 2am f/c. 10/10- WDAF-610 @ 1:27am. 10/12 - WKGN-1340 @ 1:20am. Veries since last musing are from v/q- CHSJ-1150 and KTOK-1000, with one v/l from KBOI-950 for state #48 verified. WMAS-1450 has lost CBS when it was sold and now takes Mutual NX over from WREB-930. Jerry Peterson showed me a letter from WHYN-560 enginee5, saying they still aren't 5kw. WHYN's DJs seemed to think they were. Also, WTYM-1800 is not using 5kw.; it's more like 1kw. All for now, so 73s.

Alan Merriman - 7504 Montrose Street - Alexandria, Virginia - 22312 Time for another report. Three weeks in a row forms - a new world's record, hi! DX by dateline: 10/2- WRBC-1300 Jackson, Miss. at 12:35am. KOLT-1320 Scottsbluff, Neb. @ 1:30am. WSUX-1280, Seaford, Del. at 3:15pm. This is a very friendly station and welcomes reports. Said in verie that they presented a special program for the NRC in 1956. 10/4- W.I.B.S.-695 Roseau, Dominica, at 6:05pm with a BEC NX relay, followed by mx. Also strong hetrodyne on 705 kc/s. but no audio; too much splatter from WIW & WOR. MMSJ-1480 Sulva, N.C. on with emergency program with flood information at 10:15pm. 10/5- Report to WING. 10/6- WCAW-680 Charleston, W. Va. at 10:10pm. 10/13- WMTC-730 Vancleve, Ky. at 12:44am with f/c-ET. Reports sent to WDVA WWDC WJEJ WHLO & WBAM. 10/14- Reports sent to WRC and WCBG. WPSL-1510 Monroeville, Pa. at 4:05pm. Also sent f/ups to WSKT KYND WSLT KRDS WROC WHOT WAPE WVCH WHJB WKOK. 10/16- A number of West Indian stations on late with British ER. I sent a report to Radio Trinidad. Also the Jamaican stations heard and possibly W.I.B.S.-540 in Grenada. Veries received during this period were v/q- WJW Cakro-818 WTWJ CHUM KGO CBZ WDVA. v/1- WSUX. v/f- KLMA, & a postcard from WAFC. The QSL from Cairo came 12 days after my report by registered airmail. Possibly a change of policy over there. I have 39 reports out since 9/1 and I hope they start coming back son. Veries very slow. Well, that's it for this time. 73s and good DX.

BOYS, WE ARE IN MEED OF MUSINGS REPORTS NOW THAT WE ARE ON OUR WEEKLY SKED. PLEASE DON'T LET THE N.R.C. DOWN - SEND THOSE MUSINGS IN, EVEN IF THEY MIGHT BE BRIEF. OK? 5 D.X. N.E.W.S. October 24, 1964

Len Kruse - 1675 Glen Oak Street - Dubuque, Iowa - 52002 The latest additions to my DX log included these: 10/2- Station WBBR-1580 Travelers Rest, S.C. on an ET; some QRM from ANer KBGO. Then on 10/5 Station KGMR-1500 Jacksonville, Ark. logged for first time with a f/c from 1:25-1:35em. Station WBBY-590 Wood River, Ill. recently went from a "daytime only" to an "unlimited" station, and thus I logged them for the first time in the early evening on RS from 7 to 8pm, this was on 10/7. It was on early SM 10/11 that I logged Station WPGM-1570, Danville, Pa. from 6:15-6:30am on RS; topping the frequency. The same morning I logged for the first time the RS of WJRC-1510, Joliet, Ill. from 7:15-7:45am; with some WKAI RS interference. The morning of 10/12 found ANer WTBC-1230 Tuscalogsa; Ala. well "on top" of this spot; amnouncing soon to be "four times more powerful" during day time when they will be 1,000w. With continuation of 250w. at night. Also on MM 10/12 Station WBAB-1440, Babylon, N.Y. logged for the first time of RS from 3:30-4em, in the clear. On 10/15, the final 30 minutes of RS, before midnight, of Station WKYX-570 Paducah, Ky. (ex-WKYB) was topping this frequency, with a trace of WAAX's RS. Then on 10/16 AM, I logged the early-morning ETs of the new 1,000w. daytimer WAYK-1500, Valparaiso, Ind. The latest verification was a colorful QSL card from WJRC, Joliet, Ill.

Don Eggert - 1925 East Bowman Street - South Bend, Indiana - 46613 Hi y'all. Sorry I missed the last Musings but I went on a camping trip last weekend and just couldn't make it. When possible, DX is really great, like the Cardinals and Notre Dame! Good to see so many Specials from Canada, as I'm hurting for the provinces. CHCM-560 is a lost cause here, because WIND doesn't s/off till about 2:30 EST, but I'll give it a try. Recent DX here is: 9/28-MM- KGPC-1340 TT @ 1:57 (v/l says f/c is fourth Monday), WTCN-1280 @ 2am s/off, KTFI-1270 (finally) @ 2:07 s/off SSB (state 41), CJOB-680 @ 2:17, now AN; WCDL-1440 @ 3:46 TT, WVMT-620 @ 4:03 s/on SSB. CFPL-980 → 4:07 on RS, WQAM-560 → 4:17 (verie says NSP), WFIL-560 @ 4:30 s/on SSB, WELI-960 @ 4:41, #2 from Connecticut, KARK-920 @ 8:11pm. 9/30- KEZU-920 @ 6:33 s/on SSB, #2 from S.D. 10/5- WKNR-1310 @ 2:11am, KRKO-1380 @ 3am after WBNX spoff, WDOV-1410 @ 3:20 w/ IRCA DX Special, KABL-960 @ 3:35 w/good signal, WADO-1280 @ 4:02 s/on SSB (#14 from N.Y.C.), WKWK-1400 @ 4:10 s/on SSB, XERCN-1110 @ 8:37pm in SS. 10/13- WRTL-1460 6:15 pm s/off. 10/15- WDGY-1130 @ 6:08pm. 10/16- WMIR-1550 @ 6pm. Veries (at last) since last report are v/q- PJB KTFI WQAM. v/1- KGPC. I have total of 94 veries from 40 states. Enjoyed a nice expensive (according to Dave) phone call from Dave Doswell a couple of weeks ago. Thanks again, Dave. Finally heard from the CBC re my 1380 mystery. They sent the usual stuff saying that your report has been received, etc. and then are checking with their logs. That's some kind of encouragement. I'm sorta inclined to believe it was a harmonic, though I've never had trouble with them before. You guys who are expecting letter from me please be patient due to the fact that I'm behind in corresponding. Some SCs I have for trade are WHK WHLO WIBC WIBM & WJPS. That's about it till next week. 73.

John Callarman - Box 1914 - Pampa, Texas - 79066 Well, we've let radio stations themselves ID program material, and asked American embassies to ID stations for us, but I've got a station ID from the Guatemala City Post Office. I sent a report for TGRT-685 addressed simply to "Radio Fabiosa" Guatemala City" and got back a fine verification from Radio Fabulosa, as snown in IDXD. Other veries: WTYN KORL KAHU & KCAT, nears at the same time Ernie heard them. Notes: 9/27-KGBT-1530 in SS to s/off 11:58pm, first time heard at night here. 9/28- XEMR-1140 logged 12:20-12:40; CSB9-782 good from lam on to 1:33; PJB-800 s/off ET 1:59; 4YA-780 first noted 2:01; KORL-650 logged 2:10-2:28; KAHU-940 noted 2:48-3:04; KGU-760 rough copy 3215-3:30 with bad buzz and CMCD; 1ZD Hit Parade heard well on 1000 3:33; WBAL-1090 and WMEX-1510 noted after 4:00, first time for both, but no logs. 9/29- XEZL-1550 Jalapa, Ver., & XEBG Tijuana, B.C.N. fighting for dominance 11:09-11:34pm. 9/30-SS u/KOA 8:19-8:30 pm. but couldn't dig it out; XERF off and noted KWIC to 8:43:50 s/off, KCVR to 9:15 s/6ff, mixed with KACE, CFOR & a Mexican. Had a steady thread on the Mexican for 40 minutes, and sent tentative report to listed XEIM, San Blas, Nayarit. San Blas post office said they have no radio stations in that place, so I'm mystified. 10/3- TGRT-685 logged, good / 12/1 level, 10kw. all evening. 10/4- Unn KAPB-1370 on for Hilda; PRG2-1040 noted most of the morning, perhaps AN now; WARB-730 on for Hilda. 10/5- KCAT logged during ET 1:06-1:22; KFAX-1100 noted on RS 7:16-7:33. 10/9- XERF off, WAWK logged on f/c 1:06-1:15 off, IDs in code. 10/14-Loud signal noted on 655 around 11pm, thought I'd try again for a YSS verie, but can't get one on CMQ (Page 6)

DX_NEWS October 24, 1964

(John Callarman) program material, hi! Is this the base station from 640. or one of the relays? Too much static on 10/12 for me so I went to bed. Sorry I did, after seeing Hank Wilkinson's report for said date. Note IDXD for reception of wacan, Saeawak, and Martinique. Gang, the Internationalists in this group are really coming to the

fore this year! As one reporter said, IDXD looks like a shortwave column! Keep it up!

Alex Bowab - St. Mary College - St. Mary, Kentucky - 40063 Latest word from a friend back in Mobile is that WMOO, exWMOE-1550 not on yet. They've changed calls three times and have had the CP for almost six years, and still in no hurry. Their most recent call is appropriate as the studio isn't even soundproofed and is in the middle of a cow pasture. 10/3- WHNY-1250 dominating channel, apparently using day pattern; AN for Hurricane Warnings. KVIM-1360 also on for Hilda, as was WACY-1460, and WPMP-1580, though much weaker than WACV andburied u/XEDM. Two other Harricane Watchers on 1560 and 1570; former was probably WBGS, didn't ID it, latter may have been KLLA, but was overpowered here by What's His Name Jack. WNUS-1390 in the clear, call change; WHOT atop 1330, never made it through Cuban and KFH back in Alabama. 10/10- KCTA-1030 XR maintenance test, OC, ID 5:24 and gave time in GMT. A 5 kw. S.C. (South Carolina, mind you) station on 1430 kc.s. s/on 5:30am, sounded like WBLR + still have no log here but ordered another VJ.

Ed Sattertimalte Jr. - 617 Russell E - Newark, Delaware - 19711 Return to school has again brought a temporary end to DX activities. My schedule will be especially heavy this year since I am now carrying a double major (chemistry and math) and also working part time running the University's dBM 1620 computer. This equipment makes all other electronic devices seem dull by comparison, and I doubt that I will even bring my good RX to Newark this year. Despite the doubts expressed in DX NEWS. WNRK does have a very strong signal, at least one place (Newark!); I believe that they are highly directional, however. I spent the week following Labor Day in Wisconsin and Minnesota and heard many new stations as locals; otherwise, little has been added to the logs here since last Winter. Finally, an announcement to anyone awaiting the antenna tuner plans I mentioned in my article on images; further experimentation has indicated that substantial improvement of my present tuner, especially for RXes with low impedence inputs, might be possible, and I am holiding the article until I can investigate this. The present model does seem to work quite well with receivers designed for a high impedence input (such as most surplus and many of the older "all-band" home receivers), however, and I will try to answer requests for information as time permits. 73.

CHANGES IN STATION DATA - F.C.C.

(Purchased from Seabrooke Printing Company, Washington, D.C. 20004)

NEW STATIONS

1300 Plymouth, New Hampshire 1,000 D-1 1520 Sikeston, Missouri 5,000/500 U-4 CALL CHANGES

810 W A T I Indianapolis, Indiana, from WIGO

FACILITIES

- 980 W P B C Richfield, Minnesota, 5,000 U-3, minor pattern change.
- 1110 W N A R Norristown, Pennsylvania, to 50,000 D-3, from 500 D-1, same channel, and move XR site NW.
- 1220 K I B E Palo Alto, California, to 5,000 D-1, from 1,000 D-1, same channel.
- 1330 WESR Tasley, Virginia, to 5,000 D-1, from 1,000 D-1, same channel.
- 1530 WERX Wyoming, Wichigan, to 500 D-1, from 500 D-3, same channel.

A DX NEWS "EXTRA" FROM ALEX BOWAB

SUBJECT: XERF-1570. "XERF is located 20 miles from the border, almost inaccessibly out in the desert. The station is currently caught in the middle of a fierce battle among three labor unions over who works there. When one is "in" the toher two hire snipers to attack the station and its personnel. Thus, XERF is under armed guard at all times. Wolf Man Jack, the GM Bob Smith, has been shot at several times lately, and his show 1:00 to 4:00 a.m. EST, is on tape because most mornings bullets keep him from being able to get to the station! # You'll notice they don't use 250kw. either - they can't because of power shortage." So, as you listen to Wolf Man Jack, remember that things are a little on the rugged side for him and for his station. XERF has long been a "blockade" so to speak on 1570, but have always been friendly to DXers. Our thanks to Alex for this interesting sidelight into XERF-dom.

DX NEWS October 34, 1964

Rich Heald - 733 Arbor Drive - San Leandro, California - 94577 Man oh man, is DX great. Seven new ones last MM (10/12) and a couple more during the week. DX as follows: 10/12- KJDY-1400 u/local KPAT, XR just ten miles away. KJNO-630 WOC-1420, WTOP-1500, KTLW-920, WHUT-1470, CBJ-1580 (my first FF Canadian). 10/17- CBR 1010 Calgary (ex-CBX, Edmonton), CBM-940. Veries from: PJB KYJC KUMU KJNO. V/q from KIMA (after 9 1/2 months), KHOW, WILS. Totals: 562/386. I started this year with only 160 veries. I've had to change my goals for veries three times. Goal for the end of this year is now 400 veries. I believe I now have the third largest number of veries of all Bay area DXers, topped only by Pete Taylor and Gene Alien. Bob Pietsch and I seem to be the only active DKers. Bill Wilson has too many other activities like school and girls, hi, for DXing. That KIMA verie now sets a record for the station taking the longest time to verify. KOMA held the old record at eight months. The KJNO verie came three days after I sent it, so they have the shortest time for verifying this year. Last year a couple stations took only two days. KJDY-1400 was a real surprise, right through local KPAT. That same day, I went over to KPAT to gloat about it to their CE, and he told me he wasn't a bit surprised that I heard someone in the background. Oh well. CBJ was a real surprise, s/on w/FF National Anthem, then FF folk songs. Since I speak SS, not FF, I wasn't able to get a very good copy. With KSTP off I've managed to hear some real goodies like KUMU and WTOP. Ernie, who's the SS on 840? (I'm still trying to ID him too, Rich -ERC) Also the rr on 1510 around 2 am EDT? WX here is getting warmer instead of cooler. Temperatures between 70-85, or 10-200 above normal. Night temperatures are around 45-500. Paul Hoffman & Tom McNiff have both raved about Summer DX here, so maybe someone will believe me when I say it's great here in the Summer. I got all eight of nine DUs from April on to Summer. Static level is really high here in the Winter, just ask Don Brickson or Roy Millar. It sounds like you're right under high tension lines, or someone's using an electric razor. April is best month here for DX. Don't forget the KSAY DX TEST. I know it's on a weekday, and most of you have to go to work or school, but then you DX on MM, also a working day, so what the heck, set your alarm about 15 minutes before the TEST, then hit the sack again after it. Don't forget the Gabfest at Bill Wilson's 10/30, moon to 5 or 6pm. Write me for directions. 73 and good DX.

Ralph M. Johanns - 11 East Chippewa Street - Buffalo, New York - 14203 An uneventful week and 10/17 bulletin not in yet. A 6x9 v/q by WSUN-620, Convention Bureau, Greater St. Petersburg Chamber of Commerce, Wm. J. Codding, CE says 24 hours a day, has four colorful pictures on it. 8¢ postage due and nothing to "crow" about, a 3x5 plain paper v/q mimeo from KROE-930, Sheridan Bg. Co., Inc., Box 661; two commercial pages by Ed Niehay GM, a CM & program, CE forgot to sign v/q (10/10 f/c). From a Florida paper: WORT-1550, Box 276, and WSBB-1230 is Box 125, both New Smyrna Beach; DeLand has WJBS-1490, Box 808 and W000-1310, Box 694, Daytona Beach; WELE Box 4006; WMFJ-1450 Box 5506, WQXQ-1380 Box 5038; WROD-1340 Box \$\$4991; WNDB-1150 Box 431. Keep these addresses handy. Rochester N.Y.'s AM/FM/TV got sold (\$7 million) to Rustcraft Greeting Cards Inc., Dedham, Mass. who have several radio stations. Oct. 12th, Columbus Day, is Thanksgiving in Canada, in Ohio, N.D. and Ind., Discovery Day, and in Wis. Landing Day. Strange fact: the original name of P.R. was San Juan, while the city of San Juan was originally named Puerto Roco! Noted CBL-740 off air 10/14 till 4:10am & KWRE-730 r/c-TT came nicely through KRMG/CKLG ANs, then "La Nuts de Duba" @ 4:05; CBL off again 10/15 till 2:46am. The local WGR-550 believe wants to sleep SM & MMs; hope others'll follow suit. Stlong for now. 73.

Ken Murphy - 50 Plymouth Road - Glenbrook, Connecticut

Heard the new WPRX (Prix Radio) AN on 1330 kc/s. this morning. As of this writing, I
have seen nothing from Seabrooke about it. A good signal easily topping WHOT/KFH. I
noted a news item that American Airlines has renewed "Music till Dawn" for another 5
years so no relief from those ANs carrying the show. The last couple of SMs are a
bright spot on 1460. Only a very weak WACO audible & a good spot for a DX show. CBZ1480 has a real nice verie form. Three small kangaroos holding the letters C-B-Z and
a large kangardo with the card denoting 1480. CBD-1110 now on and using same studios
& program for the most part. They will soon go AN also. Very nice friendly v/l from
Pat Buford, M. of KCAT-1530. He is also M of KTMN also 1530 & also in Ark. WGCH-1490
v/s is Norm Wolfson, CE. I've just sent my third report to WIKE-1490. This one went
to Dean Finney at WTWN-1340 who is a personal friend & owner of both stations. This
should provide results! I hope all will have a fine DX season under the guidance of
the NRC and its very efficient management

Mike Tilbrook - 261 Hoodridge Drive - Pittsburgh, Pennsylvania - 15234 Greetings from WPE3FTZ. DXing is certainly getting a heck of a lot better. Recent veries include KSCJ-1360 KARK-920 WTRC-1340 WPTF-680 WTHM-1530 WWDS-1050, who by the way are planning to move from 1050 to 1110 in the near future. They are also planning a power increase. Other veries: CHFI-1540 after six months, WITN-930 for Hurricane Watch. WSHN-1550, WSIG-790, KOLS-1570, & WCTW-1550. Hello to all you SCers including Jerry Peterson, Russ Edmunds, Jerry Bond, John Daller, George Greene, Don Eggert, Herb Papenfuss, Hike Bugaj, Bill Bens and Big George Winingder. Now to DX. On 9,28, WPSL-1510 in Monroeville came on the air. They are good mx and their October s/off is 5:45 pm. Also on 9/28, WKVK-1550, WESY-1580 7:10pm. KOLS-B70 w/s/off @ 7:30. KWC0-1560 8 pm. 3/29- WPGC came in so I wrote 'em down as they haven't veried me yet. Then I got WTHM-1530 t./VCKY 6:23tm. WQVA-1530 6 13 4/off te/SSB. 9/30- WAFC-900 6:28 s/off te/SSB. WATV-900 6:58 s, off, KREK-1550 7:53pm. WAPL-1570 w/s/off @ 7:58pm. Also KLOU-1580 & WCLS-1580. WCTW-1550 w/Cindmati BB game. WMBR-1460 9pm. 10/3- WAMW-1580 s/off 6pm. 10/4- WSIG-790 2:30pm. WCEF-1050 2:50pm. WELC-1150 5:17pm, and a big surprise, VP4RI 730 in Trinidad, 10pm. It gave me a new country. 10/5- TGJ-880 Guatemala in for a log around 10pm. 10/8- WSGB-1490 5:19pm. WTVB-1590 6:02 & WPRA-990 Puerto Rico 10:23 pm. 10/13- WRIN-1560 6:13pm. WAWA-1590 6:15 s/off. Finally logged CHUM-1050 real strong o/WHN around 6:25pm. Then KRCB-1560 6:39-3:43pm s/off. WOKJ-1550 6:55pm. WJRC-1510 6:58 s.off w/SSB. 10/14- I think I had WBYS-1560 s/off @ 6:15, can anybody help? 10/16- WAIK-1590 6:29 s/off. Also got a 6:28 s/off there with SSB, anybody know what it is? 10/18- Finally wrote down WNUS, 12:23am. WDEW-1570 testing AN, ID @ 12:47 and 1:06. KGLO, Mason City, Iowa 1300 on r/c 1:01 ID. WJVA-1580 testing, 1:24. WWIL-1580 f/c 1:33am. WDXR-1560 is now AN. WPAT-930 2:02am. KIUP r/c 2am. SCs now total 147 w/new traders from KSTT. Guess that's it from here; ?3seseses & best of DX to all.

Walter Snyder - 722 University Avenue - Cornell University - Ithaca, N. Y. Warm WX the past week has kept CX from being ideal, and this I lacked the ambition to do too much AN DX. Verie came in one week from WDOV-DX, consisting of a CM. CM & nice letter also from WMMH (N.C.) on specially due to flooding CX, till 2:32am 10/5. RS s/ on 5:30, per v/1. Also noted KIUP-TT 10/18 till 2:05, then announcement, lost u/heavy QRM. Will DX AN more when WX gets colder and we get organized into EST again, so all are on the same sked. Will devote the rest of my space to some of the strong ANers here in the "Southern Tier" of 'N.Y. State. First, Attention, all those wanting Vermont: WVMT puts real strong signal in here on 620 at 5am s/on w/SSB, until (I think) 4:30 or 5am WHEN s/on, and it could get out W some distance. AN stations, not necessarily MM; readings taken Fri. AM 9/25:) 540 --, 550, no WGR, SS in background, 560 WIND, WQAM weak @ S-6, WKBN S-7, 580 CFRA S-6, 590 WARM very weak. S-5, 600 VTAC/WCAO S-7 QRM, 610 WIP S-9 NSP, big graySyarder here, seems to put its 5kw. everywhere, 620 WSUN S-3, 630 WPRO S-8, no WMAL noted though noted other times, 640 CMQ S-7, 650 WSM S-8, 660 WNEC 10/S-9, 670 WMAQ 10/S-9, 680 QRM, w/WPTF on top, WNAC seldom makes it this far W, 690 CMCA S-8, 700 WIN S-7, 710 WOR S-9, 720 WGN 10/S-9, 730 --, 740 CBL 10 /S9, 750 MSB 10/S-9, 760 WJR 10/S-9, 770 WABC 10/S-9, 780 WBBM 10/S-9, 790 WAEB/WTAR u/ QHM, 800 CILW 20/S-9, 810 KCMO S-8, 820 SS, 830 WCCO 20/S-9, 840 ---, 850 WHDH week u/ QRM, 860 KONO S-7, 880 WCBS 20/S-9 870 WWL-SS 20/S-9, 890 WLS 20/S-9, 900 CRAL 20/S-9. 910 WSBA 20/S-9, 920 ?? S-9, 970 WWSW S-9. More later this year. RX is a Hammarlund $HQ \neq 180-AC$. 73s and good DX.

Chris Lucas - 89 Round Hill Road - Fairfield, Connecticut - 06431

Hi. For most of this month of October, DX has just about not existed, but all of a sudden this weekend it has picked up. I now use the loop about 90% of the time, and I'm sure glad NRC published the plans in DX NEWS. DX since my last Musing as follows:

9/27- CJEM-570 W/CBC FF programming at 9:30pm. 9/28- WCYB-690 \$6:45pm. 10/5- WMLP-1380 \$5:29pm, WTWB-1570 \$6pm. 10/8- WREO-970 \$5:43pm, WJAX-930 \$6pm, YNM-615 10:06

pm. 10/10- WKER-1500 in Pompton Lakes, N.J. about even with WTOP daytime, although they come in pretty good with the loop, HJKL-605 \$11:28pm. 10/13- WCDL-1440 \$5:29pm; 10/16- WFSR-1380 \$5:17pm. 10/17- CJOC-1220 \$12:18am for Alberta \$2, XEX-730 \$12:56

sm, CBK-540 1:07am for Sask. \$1 & province \$9, WISM-1480 \$1:42am for Wis. \$3, WYRE-81C \$2:30pm, WRIB-1220 \$4:20, WEBO-1330 \$5:12pm & WASA-1330 \$5:30. This brings my total up to 686, W/only 17 stations logged so far this month. I understand that three new daytimers have permits from the FCC, although I don't see any notice of their opening dates. They will be WNJZ-1590 in Port Chester, N.Y. with 1kw, a station here in Fairfield on 1530 w/10kw, & a station in Milford. Conn. on 1500 w/5kw. No veries in (P.9)

DX NEWS October 24, 1964 (Chris Lucas) recently, but I sent out five reports yesterday: CBK CJOC WISM WYRE WFSR and one to WKER about a week ago. Too nad the Yankees lost the Series, but they'll probably win it next year. One more logging, #687, WHLM-550 in good @ 6:29am 10/19.
73s to all, and let's contribute often to DX NEWS now that it's issued every week.

Hal Robie - 351 South Street - Medfield, Massachusetts - 02052 Choice DX, at least those foreign stations in countries still needed here, has been slow the past couple of weeks. And veries even slower - not even one in that period of time. This is a real good season underway though, and things are bound to pick up. Montserrat-885 still heard well on occasion until 9pm s/off. On 9/28, reception was so good between 8 and 8:30pm that I listemed to this one purely for pleasure! Rosean, Dominica, is also heard regularly, but poorly, between 7-9pm with an occasional clear ID "This is the Windward Islands Broadcasting Service." Many of the German stations, both E & W. have been coming in of late and the SS. Portuguese, and Moroccan stations which are not too difficult anyway have had unusually strong and clear signals the past week or so. CSB5-1578 has been excellent on many occasions in the early evening, unlike last year. A new station here this month has been Cairo-773 first heard well 10/2 at 5pm. Frequently they are louder than the 818 frequency. I don't know that I'll ever get the U.A.R. verified at the rate I'm going, but I intend to keep after it! Guess it's about time I took another log on Senegal-764 because this is another station that has evidently filed my reports in the wastebasket! Radio Caroline-1495 heard a couple of times, weakly and briefly, but not enough for report. 1520 outlet not heard. Czechoslovakia-1286 in weakly a couple of times lately, and if I can't do better, ## there's enough for a report. S/on at 10:30pm 10/16 and the SS program at 6:20pm 10/17. This is one I still need. Strong hets on many wanted Eastern Europeans and Africans practically every night and early AM, but usually no program material heard, or I'm unable to mull out interference from nearby frequencies without loop so the desired signal /is overridden. They'll come through sooner or later, though! Present country

total here is 61.

Leo Fox - c/o United Meno Hill Mines - Calumet Camp - Elsa P.O., Yukon Territory Allo, group. Checking my "mail" book I see my last report was sent on 9/23. Much has transpired since, most of it Foreign but it won't hurt to say it here as well as in IDXD. 9/23- 2CY Canberra, Australian Capitol Territory briefly @ 6:15am, but not enough for a report. 9/24- 4ZB, Dunedin, N.Z. for a few minutes at 3:55, reported. Very short on IRCs here so I'm doling them out one at a time, which is hardly the way to get quick returns on foreign reports, hi! While on this subject, does anybody know the address of the DX Stamp Service, run by a ham, name of "Sax" on Weaver Road? Someplace in New York? (See elsewhere, this issue, Leo -ERC) If so, please send. 9/25-BBC Light Program on 1214, from someplace in my homeland. Westergien or Brookman's Park or summit, hi. Sort of a CBC LPRT problem. October: 10/2- BBC-1052 Start Point Home Service, from 12:35 s/on, #7 from British Isles. KCAM-790 Glenallen, Alaska, copied for an hour or so from 2:38am, good signal. Middle-of-the-road format, emphasis on religious programming. Announcer must fit the job in between his Grade Ten classes, hi! / 3YW-1460 Westport, N.Z. spotty, but copyable from 4am, best DU here at 2kw. 10/3- KLEI-1130 briefly u/omni-oresent CKWX; with end of FB game (understand they're crazy about the game in Hawaii) at, ouff puff, 2:23. 10/7- CFRV-1230 Smithers, B.C. logged at midnight s/off. 10/8- Bratislava, Czechoslovakia on 1037 at 11pm, caught an ID at long last. Now to get a verie! All I need is a tape recorder, then a recording; then, enlist the services of a Czech. There's probably more than one in camp. Every nationality here. If you have any trouble deciphering your reply from Peking, send it here, 'cuz all the cookhouse staff is guess-what nationality! 10/10-AFN-872 Frankfurt, 12:26. 10/11- RTF logged w/remarkable signals (all synchronized) on 1160-944-1205-1376-791-710 from 11:58pm s/on with "Marseillaise." My neighbor in the next room is a Frenchman, so I drug him in, and he-all translated for me. You can't beat that, unless you speak FF! BBC-1340 Lisnagarvey (HS), for another country, 12:50am 10/12; KHBC-970 Hilo // KGMB/KHBC, ID only on the hour, for report #16 to Hawaii. 200-1110, Sydney, 7:08am on 10/12. Only a couple of lines left, so, of interest: CBDM-690, CEDL-940 of CFWH network logged and reported. Other trash: CBR-1010, CBX-740. CBA reported, veries are WCBS KFAX QSLs. 73.

"AN" SITUATION

OFF- 1460 W C M B s/off 2am; earlaer MMs. ON- 1560 W D X R Except MMs.

AS THEY SAY IN EVANSTON, ILLINOIS: "WMMP:" "WE MEED MORE REPORTS!" DX MEMS WEEKLY!

1010 C B R Calgary, Alberta 1500 W A Y K Valparaiso, Indiana NRC NRC New (taller) antenna 1540 W P H C FCC 1310 W T T L Now 1.000/500 U-2 FCC FCC Cathedral City, Calif. FCC 1450 W L A F Now 1,000/250 U-1 1340 K W X Y KRMD Now 1,000/250 U-1 FCC 1490 KDRO ditto FCC 1400 K C O G Now 500/100 U-1 FCC MBOT ditto; now KnoxvilleTenFCC 1360 W H B G New XR site; taller antFCC 1450 N D S G Now 1,000/250 U-1 FCC

INFO ON CFCH & KNBI.

CFCH-600 (NNRC) - Reports go to Mr. David Mee, Chief Engineer, Box 1,000, North BayOnt. KNBI-1530 (NASA-test) - Reports go to Mr. Fred Horney, of the KNBI Engineering Staff.

ATTENTION: CPCmen WANTED:

DAVID OVED, 550 Grover Cleveland Highway, Eggertsville, N.Y. 14226, has asked its to remind you members that the NRC could use some more volunteers to contact radio stations regarding special tests and DXes. There is considerable satisfaction and pleasure connected with successfully arranging one of these NRC Special Events, so why don't you give this matter some long, hard consideration? The more members who work for the Club, the greater the Club - naturally - so now about some of you lads who nave the time and the talent for letter-writing contacting Dave at the address at the head of this article? Your help is feally needed, and a more important thing you couldn't do for your NRC. Write to Dave today, and he'll clue you in on all the details of contacting stations by mail for DXes and TESTs. Thank you!

Please don't forget to try for this DX Tip program, each Saturday afternoon, 2:00 to 2:30 p.m., EST, featuring among the SW tips, five minutes of BCB News, from John Callarman, and our DX Tips are also read on this program. And they want reports, so why not give it a listen? Irwin Belofsky advises us that the frequencies for the program, beginning in November, and holding true until March 31, are these, changed from those which were in use through the end of October. WRUL's DX Tips show will be on 11,940; 15,135; 15,440; and 17,760 kc/s. Send your reports to Irwin Belofsky, Radio New York Worldwide - WRUL - 4 West 58 Street, New York, N.Y., 10019.

Henry Marbach - 2 Overlook Road - White Plains, New York - 10605

Not very much time for DXing. School is real tough this year since I am preparing for college. Only recent veries here were WKNE-1290 #4 from N.H. and TIRICA-625 QSL for report of 8/22, 8/30 & 9/1. "La Voz de la Victor" is #1 from Costa Rica. Other recent catches include season's first TA, NDR-1586 on 10/9 unn, WKER-1500 (new one in Pompton Lakes, N.J.(, WKVM-810 on 10/15 u/WGY at 9pm, WKVT-1490 (#3 from Vt.), WNAB-1450, WKIG on the morning of 10/12, unn., Barbados-795 for report, and WMAL-630 at 12:05am s/off on 10/11. Hope to report more than I have. Ben Dangerfield, did I send you only 25¢ for contest? If I did, please let me know so that I can send you the rest. So far, only TIRICA for Contest. Hope to add Barbados. 73s.

Ernest R. Cooper - 438 East 21 Street - Brooklyn, New York - 11226 Long-range invitation for Saturday FM, 11/28, noon-6pm, at Hugh Buckner's, at 635 East 21 St., here in Brooklyn, for our annual get-together - all are invited, but please let km know if you're coming, so I'll know how many to expect. Nice v/1 & Ch from WACY-1460, and a silly form letter from Caroline I-1520 written in teen-talk, and nary a word about verification - just an invite to join the Caroline Club. Joe Fela says he got a nice v/q, so maybe mine is still on the way. Some more DX: 10/16- Really amazed myself by getting into 715 kc/s. with local 50kw. WOR on (with talk-talk) 10:15-11:10pm to get a nice log on HRTV, Tegucigalpa, Honduras, with much U.S.A. mx, and a new country if they verify. Noted an SS on about 705 also, not loud enough to get through WOR sidebands, though - CB-o9? 10/17- WGCH-1490 logged & reported w/local High School FB game, u/WIDB & o/WBCB, 1:10-2pm. WJJZ-1460 ID caught at 3pm, but no programming; think he had Notse Dame FB, though - anybody know for sure? MM 10/19 a bust here; with only unns heard, like WKBW-1520 ET/M 1:06; WHRT-860 f/c-M @ 1:21am on top, later on, it was the Brazilian AN on top. New CBNE-1370 heard, but at ID time, they faded, and I wasn't about to wait 57 minutes for the next one, so to bed, and a date next week to try again 10/20- One u/WPTR 5:45-6rm EST with "day-old" NX on Freddy Hutchinson's retiring from managing the Cincinnati Reds, call sounded like WPXY, but actually unID as yet. Log on Windward Islands Broadcasting Service-695 (W.I.B.S.), Roseau, Dominica to night, 6:19-7:15pm, mostly with U.S. mx and YL announcer, in S-6 tonight, best yet here. Let's have piles of Musings, boys, all Winter - make this a really swingin' year for N.R.C.!

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INTERNATIONAL DX DIGEST
                                                                   October 24, 1964
             Editor: John Callarman, F.O.Box 1914, Pampa, Texas 79066
                                CUBAN LIST
                                 Ronald F. Schatz
540 CMJJ
                              Radio Jatibonico (Unverified location or call)
           Jatibonico
550 CMAN
                              Radio Rebelde (Relays "La Voz de Cuba")
           Pinar del Rio
560
           Las Mercedes
                               Radio Rebelde
570 CMHI
           Santa Clara
                              Radio Rebelde
580 CMJP
           Ciego de Avila
                               Onda Tropical
590
                              Radio Rebelde (Originates Network Programming)
     CMW
           La Habana
                              Radio Rebelde (Relays "La Voz de Cuba")
            (Oriente Prov.)
600
                              Radio Rebelde (Relays "La Voz de Cuba")
           Trinidad
      ....
      CMKV
           Holguin
                              Radio Rebelde
                              C M Q Radio
630
     CMHQ
           Santa Clara
      CMKU
           Santiago de Cuba
                              C M Q Radio
640
     CMO
                               C M Q Radio (Originates Network Programming, & Relays
           La Habana
                                           "La Voz de Cuba")
660
     CMHG
           Santa Clara
                              Radio Progreso (Relays "La Voz de Cuba")
670 CMKP
           Holguin
                              Radio Progreso (Relays "La Voz de Cuba")
680
     CMAF
           Pinar del Rio
                              Radio Progreso (Relays "La Voz de Cuba")
                              Radio Progreso (Relays "La Voz de Cuba")
      CMHN
           Cienfuegos
                              Radio Progreso (Relays "La Voz de Cuba")
      CMJE
           Camaguey
      CMDB
           Santiago de Cuba
                              Radio Progreso (Relays "La Voz de Cuba")
                              Radio Progreso (Originates Network Programming and
690
     CMBC
           La Habana
                                             Relays "La Voz de Cuba")
                              Radio Progreso (Relays "La Voz de Cuba")
700
     CMJT
           Ciego de Avila
                              Radio Rebelde (Relays "La Voz de Cuba"
720
           Colon
      ....
740 CMKJ
                               C M Q Radio (Relays "La Voz de Cuba"
           Holguin
760
     CMCD
           La Habana
                              Radio Reloj Nacional
     CMJY
                              Cadena Agramonte
           Ciego de Avila
                              C M K C Cadena Provincial de Oriente
 770
     CMIDC
           Holguin
790
     CMCH
           La Habana
                              Radio Cadena Habana
800
     CMJS
           Ciego de Avila
                              Radio Reloj Nacional
      CMKL
           Santiago de Cuba
                              Radio Reloj Nacional
820
     CMDT
                               C M K C Cadena Provincial de Oriente (Unverified lo-
           Bayamo
                                               cation and/or calls)
830 CMCA
           La Habana
                              Friendly Voice of Cuba
840
     CMHW
           Santa Clara
                              CMHW
      CMJM
           Ciego de Avila
                              Radio Rebelde
850
     CMKC
                              C M K C Cadena Provincial de Oriente (Originates Net-
           Santiago de Cuba
                                      work Programming & Relays "La Voz de Cuba")
860
     CMBL
           La Habana
                               CMBL
880
     CMAG
           Consolacion del Sur Radio Musical Nacional (CMBF)
      CMJB
           Camaguey
                              Radio Musical Nacional (CMEF)
890 CMHD
                              Radio Musical Nacional (CMBF) (Relays "La Voz de Cuba")
           Santa Glara
     CMJV
900
           Ciego de Avila
                              C M Q Radio
910 CMCF
           La Habana
                              Radio Musical Nacional (CMBF)
     CMGX
           Matanzas
                              Radio Musical Nacional (CMBF)
920
     CMAQ Pinar del Rio
                              C M Q Radio
     CMJL Camaguey
                              C M Q Radio (Relays "La Voz de Cuba")
930
     CMEM Santa Fe, I.P.
                              Radio Musical Nacional (CMBF)
     CMKN :
           Santiago de Cuba
                              Radio Rebelde
950
     CMBF
           La Habana
                              Radio Musical Nacional (Originates Network Programing)
     CMDJ Guantánamo
                              C M K C Cadena Provincial de Oriente
960
     CMGF
           Matanzas
                              Radio Rebelde
     CMJN Camaguey
                              Radio Rebelde
980
     CMCK -
           La Habana
                              Periodico del Aire
990
     CMHT
           Sancti Spiritus
                              Radio Sancti Spiritus
```

Cadena Agramonte (Originates Network Programming)

1000

CMFA

Camaguey CMKW Santiago de Cuba

CMKW

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IDXD Page 2
                                                             October 24, 1964
                            Radio Musical Nacional (CMBF) (Unverified location
1010 CMBP La Habana
                                       and/or Calls)
                            Radio Reloj Nacional (Frequency Varies)
     CM.
                            La Voz de la Isla de Pinos
1020
     CMBN
           Santa Fe, I.P.
1030
     CMAC
          San Cristóbal.
                            Radio San Cristobal
                            Radio Enciclopedia Popular
1060
     CMBQ
          La Habana
                            Radio Fomento (Unverified Information)
1080 CMHE Fomento
1100
     CMHU Cienfuegos
                            Radio Tiempo
1110
     CMDN Guantanamo
                            Radio Rebelde
                            Radio Holguin, Voz de la Libertad (Freq. Varies)
1120
     CMDL Holguin
1130 CMHA Santa Clara
                            Onda Musical
     CMBY La Habana
                            Radio Reloj Nacional
1140
     CMJK Camaguey
                            C M J K (May be off the air.)
1200 CMDD Bayamo
                            Radio Reloj Nacional (Unverified location or call)
1210
     CMHK Cruces
                            CMHK
     CMG. (Matanzas Prov.)
                            Radio Veintiseis
1220
1230
     CMJX Moron
                            Radio Moron
1240 CMAD Artemisa
                            Radio Artemisa
     CMGY Matanzas
                            Radio Veintiseis (Originates Network Programming)
1250 CMHP Sancti Spiritus
     CMKA Guantanamo
                            Radio Reloj Nacional
1260 CMCI La Habana
                            Radio Reloj Nacional (Originates Network Programming)
                            Radio Reloj Nacional (May be off the air.)
     CMDE Bayamo
     CMJC Camaguey
1270
                            Radio Reloj Nacional
1280
     CMHM Santa Clara
                            Radio Reloj Nacional
     CMDP Victoria de las Tunas Radio Reloj Nacional
     CMKF Guantanamo
1290
                            CMKF
                             C M J Q (Frequency Varies)
1300 CMJQ Nuevitas
1330 CMA. Pinar del Rio
                            Radio Reloj Nacional (Unverified Location and/or
                                       \mathtt{C_{alls}})
1340
     CMGU Colon
                             Radio Reloj Nacional
                             C M K Y (Frequency Varies)
     CMKY Puerto Padre
1360 CMBG La Habana
                             Radio Popular
1390 CMKX Bayamo
                            Radio Bayamo
1400 CMGL Matanzas
                            Radio Reloj Nacional
1420 CMDX Baracoa
                            Radio Baracoa
1450 CMHL Sancti Spiritus
                            (Uverified Location and/or Calls)
1460 CMCM Marianac
                            Radio Marianao
1470 CMGE Cardenas
                            Radio Ciudad Bandera
     CMJO Ciego de Avila
                             (May be off the air)
1520
     CMBD La Habana
                             CMBD
     CMKT Victoria de las Tunas La Voz de Tunas
1550 CMCG Marianao
                            Radic Unidad
1570 CMHR Sagua la Grande
                            CMHW
1580 CMGE Playa de Varadero Radio Reloj Nacional
1590 CMDF Manzanillo
                            Radio Manzanillo
Due to inaccurate info in re, no powers are listed with this edition of the
.R F S, Cuban List.
*************
     Your I.D.X.D. editor wishes to express his appreciation to Ronald F. Schatz,
8065 Crespi Blvd., Miami Beach, Fla. 33141, for compiling this information and ma-
king it available to the N.R.C. Ron is in a good position to keep us as up-to-date
as possible on radio conditions in that turbulent, unfortunate island country.
Please Tisten to and report reception of Radio New York Worldwide's "DX'ing World-wide" program, heard each Saturday at 1400 Mar, over WRUL on 11875, 11940, 15440,
and 17760. Your I.D.X.D. editor has five minutes each program. Address: "DXing
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Worldwide, "Radio New York Worldwide, 4 West 58th St., New York 19, New York."

October 24, 1964

WHATIS HEARD ---

529 SWITZERLAND. Schweizer Landessender, Beromunster, fair but in clear early evenings. Definitely a B.C.B. station. (Schatz, Fla.) I consider it so. (Ed.)

548 ASIATIC RUSSIA. RV162, Vladivostok S6-7 0409 10/12. (Wilkinson, Calif.)

565 My previous unid. here is Harvard University carrier current station WHRB; CE says that while they still announce 550, the crystal was changed last spring. Very weak at best. (Nelson, Mass.)

566 SICILY. R.A.I. Caltanisetta, must be the RAI station here 2321-2345; Couldn't get city in ID; what's the latest word here? Hrd 9/17. (Nelson, Mass.) Caltanisetta 10 kw., & Salento, ITALY, 5 kw. I'll accept Caltanisetta. (Ed.) UNID. T.A. here s/off nitely 1831, never readable. Suspect Ireland. (Nelson)

575 COSTA RICA. TIJC, Radiopolis, San Jose, here weakly past 2300 nightly, just to complicate matters. (Nelson, Mass.) GERMAN F.R. S.W.F., Stuttgart/Muhlacker good almost nightly s/on 2300; plays good classical music. (Nelson, Mass.) UNID. T.A. also signs on 2300 w/Muhlacker, much weaker, is south of the German. Language up briefly around s/on 9/26 sounded like Arabic; Suspect Sudan. Cairo 818 especially good that night. (Nelson, Mass.)

590 HAWAII. KGMB, Honolulu, hrd w/pop music & ID 0418 10/12. (Taylor, Calif.) And at s/off 0505 9/17. (Fox, Yukon)

593 MEXICO. XEPH, R. 590, Mexico, D.F. A rarity - Mexicans seldom drift. Very strong late eves w/incomplete ID. (Schatz, Fla.)

605 COLOMBIA. HJKL, Em. Nueva Granada, Bogota, S7 0535 10/12, best in the AM's.

(Wilkinson, Calif.)

629 ASIATIC RUSSIA. Khabarovsk, R. Moscow Far Eastern Service, heard at good level all AM 10/12. (Wilkinson, Calif.) TUNISIA. R.T.T., Tunis, Arabic service good 1812-1815 9/19. (Nelson, Mass.)

630 AUSTRALIA. 4QN, Townsville, only Aussie heard 10/12 S8 w/het on 629. (Teylor,

Calif.)

635 KOREA, NORTH. Pyongyang outlet 0342-0420 10/12. (Taylor, Calif.) Noted //655@ 0505 10/12. (Wilkinson, Calif.)

640 JAPAN. JOPG, Kushiro, S7-8 0500-0600 10/12. (Wilkinson, Calif.)

641 SURINAM. Radika, finally made it in 1944-2015; 10/11; fair level at times, occasional Indian records. Country #64. (Nelson, Mass.)

647 ENGLAND. EBC, Daventry, standing by 10/15 for ER w/strong carrier and some Mx; but not // with home service. (Dangerfield, Pa.)

650 HAWAII. KORL, Honolulu, poor 0500 9/21. (Fox, Yukon)

655 ASIATIC RUSSIA? I think so. Olympic games coverage in Japanese S9 0430-50 10/12. Heard earlier (0320) in very slow, deliberate Oriental language. Not JOLF sub-harmonic (1310)(hi!) -- they also had Olympics. (Taylor, Calif.) KOREA, NORTH. R. Pyonyang outlet w/sporting event 0455 10/12, S9+. (Wilkinson)

656 TTALY. R.A.T. Synchronised probably, on 10/14, s/off about 1810; not too clear

next to WNBC. (Dangerfield, Pa.)

660 ALASKA. KFAR, Fairbanks, copied for report 0003-0018 9/22. (Fox, Yukon) MEXICO. R. Seis Sesenta, fair to good many evenings around 2200. 1964 WRTVH does not list XERPM, but it sure does sound like them. (Kenney, Calif.) Si!(Ed) NEW ZEALAND. 2YC, Wellington, probably the station carrying ABC broadcast of Olympics 10/14 beyond normal 0600 s/off time. Quite strong, and noted beyond 0630. If this wasn't 2YC, I missed a goody (Millar, Wash.)

670 JAPAN. JOBK, Osaka, was S7-8 0500-0600 10/12. (Wilkinson, Calif.) VENEZUELA. YVLL, R. Rumbos, Caracas, fair 0433 10/5. (Kenney, Calif.)

680 AUSTRALIA. 2KP, Kempsey, N.S.W., with ABC ID's at 0430 & 0600, 10/13, weak but in the clear -- this a season of very little "D/U" activity here, a complete reversal from this time last season. (Millar, Wash.)

685 GUATEMALA. TGRT, La Fabulosa, Guatemala, back and forth from 680. Formerly

R. Cariñoca. (Schatz, Fla.)

692 ENGLAND. B.B.C. North Regl. quite clear 10/15 w/ER at 2100. (Dangerfield, Pa.)

695 DOMINICA. W.I.B.S., Roseau, only fair here. No surprise if only 25 watts -MCE-1200 is stronger. (Schatz, Fla.) 250 watts weak enough for Texas. (Ed.) IDXD Page 4 October 24, 1964

700 UNID. deep South American here w/Spanish religious pgmg 2020-2203 along w/YVMH & other LA's; a funny night, WIW completely looped out, 10/5. (Nelson, Mass.)
Not HCJB, listed in Spanish at this time? (Ed.)

705 ST. VINCENT. W.I.B.S., Kingstonw, in w/miserable signal around 2000 9/30. Typical mushy modulation. Sounds all of 25 watts, too! (Nelson, Mass.)

710 FRANCE. R.T.F. Rennes, s/on 2358 10/11. (Fox, Yukon)

KOREA, SOUTH. HLKA, Seoul, logged for 12 minutes at 0444 10/12. (Wilkinson, Cal)

MEXICO. Unid. logged 2315-2330 10/18 w/local programming, not carrying "Hora

Nacional," which I thought was required fare. Too much KGNC for ID. Plays 1t.

jazz versions of standard Latin tunes. (Callarman, Texas.)

720 CUBA. "La Voz de Cuba"ID noted 0328 9/13. (Fox, Yukon)

725 KOREA, NORTH. R. Pyongyang outlet /655 at 0530 10/12. (Wilkinson, Calif.)

730 MEXICO. XEX, Leon, Gto. (?) Good signal 0502 9/21. (Fox, Yukon)

735 MACAU. R. Vila Verde, believed to be the station I logged here from 0606 to 0640 10/12. I believe Roy Millar got him last season. (Wilkinson, Calif.)

737 SPAIN. R.N.E., Barcelona, very strong w/good modulation early evenings and AM's;

often tops 740. (Schatz, Fla.)

750 COLOMBIA. HJDK, V. de la Antioquia, Medellin, over WSB most evenings at local sunset. (Kenney, Calif.)
JAPAN. JOIB Sapporo, EE/JJ lingo lessons 0430 10/12 at excellent level. (Taylor)

S8-9 w/EE pgm O443 10/12. (Wilkinson, Calif.)

760 JAPAN. JOUK, Akita, heard several times between 0500 & 0600 on 10/12. (Wilkinson, Calif.)

MEXICO. XEABC, many evenings from 2000 to past 0200 (on MM 9/28). Only ID seems to be frequent repetition of letters A.B.C. Nucho QRM de WJR & KGU. (Kenney)

NEW ZEALAND. 1YA, Auckland, over KGU w/news 0200 9/28. // LYA-780 at same date.

(Kenney, Calif.)

764 SENEGAL. Dakar, weak but readable on peaks 10/6, 7 &8. Carrier on 0050. Tuning signal from around 0058; first T.A. (Kenney, Calif.) Arabic chanting past 0100 10/19, woman in FF 0202. Too weak yet for my primitive antenna to make loggable. Will build new one. (Callarman, Tex.)

SWITZERLAND. Emetteur National Suisse, Sottens. In fair 10/12 @0000-0055 w/stng signal but weak modulation. (Schatz, Fla.) Fairly good 0000-0020 in French, on SM, 10/10. (Nelson, Mass.) In ato 0045 10/12, prior to s/on of R. Senegal

at 0100. (Dangerfield, Pa.)
770 AUSTRALIA. 3LD, Melbourne, Vic. a powerhouse around 0430-0530 10/14; unneeded but interesting to listen to. Had cyclone warnings for Tasmania. (Millar, Wash)

773 U.A.R. Cairo, tremendous signal here evenings w/femme chanting & news, often tops WABC! S/off varies 1830 or 2000. S/on 2330. What's the power - 1000 kw? (Schatz, Fla.) EBU says 200 kw. (Ed.)

785 KOREA, NORTH. Pyongyang weak 0435 10/12. (Taylor, Calif.) Loud & clear all AM 10/12. (Wilkinson, Calif.)

790 ALASKA. KCAM, Glenallen, copied 0238-0300 10/2. ID: "This is Glenallen Radio, KCAM, 790 on the right side on your radio dial." Sked 0600-2300 M-F, 0700-2200 Sun, Alaska, S.T. (Fox, Yukon)

791 FRANCE. R.T.F., Limoges, s/on 2358 10/11, //to others on 836, 944, etc. Receiv-

er not so hot on lower frequencies, so signals ditto. (Fox, Yukon)

795 BARBADOS. R. Barbados, Elack Rock, carrier on @ 0445 10/12. (Wilkinson, Calif.)
800 NETH. ANTILLES. PJB; Bonaire, still testing 10/12. Also noted all over SW band
in afternoon. (Taylor, Calif.) Noted 2330 9/27 w/test bost. 9/28 2100 w/"Back
to the Bible"; also 2230 9/30. (Wheeler, Pa.) Annog Dutch-language lessons
starting within a few months. (Schatz, Fla.)

812 COLOMBIA. HJEW, Emisora Atalaya, Bucaramanga, now here from 808 & 800. (Schatz)

818 ANDORRA. "La Radio des Vallees d'Andorre" often heard well in SS past 1930. Flutter from Egypt. (Schatz, Fla.)

820 AUSTRALIA. 2GL, Glen Innes, N.S.W. ABC news 0603-0610 9/19, followed by N.S.W.

weather forecast. (Fox, Yukon)
822 UNID. Vy weak stn 10/8 & 10/10, quiet dance mx between 0100 & 0230. No idea of lingo or s/off time. (Kenney, Calif.) TIOS was noted on 822 last winter. (Ed.)

DXD Page 5 October 24, 1964 830 JAPAN. JOBB, Osaka, copied w/EE lessons // 750, 770, 870, 0420-0630 9/21. All

reported. (Fox, Yukon) Loud & clear most of the M of 10/12. (Wilkinson, Calif)

836 FRANCE. R.T.F., Nancy, excellent s/on 0000 9/23. (Nelson, Mass.)

840 AUSTRALIA. 4RK, Rockhampton, Readable most mornings from 0345 or earlier. (Kenney, Calif.)
CUBA. CMCA, "The Voice of Cuba," announced in EE 2000. (Wheeler, Pa.)
JAPAN. JOOK, Niigata, was S7 @ 0645 on 10/12. (Wilkinson, Calif.)

842 UNID. A new Oriental here. Never heard before. Best around 0700. No ID. (Wil-

kinson, Calif.)

ALASKA. KICY, Nome, copied for a report 0400-0430 9/21. (Fox, Yukon)

AUSTRALIA. 2CY, Canberra, Cap. Ty. ABC ID 0615 9/23. (Fox, Yukon) Noted 0420

10/5. (Kenney, Calif.)

SARAWAK. R. Kuching, Kuching, believed to be the station logged here between

0538 and 0604 10/12. Beautiful chimes at 0600. Never heard them before on any other Asiatic. (Wilkinson, Calif.)

855 ECUADOR. HCVN4, V. del Nacionalismo, Jipijapa, heard weakly AM's. NSP? (Schatz)

860 NORTHWEST TY. CHAK, Inuvik, s/off 0305, s/on 1000. (Fox, Yukon)

872 GERMAN F.R. A.F.N., Frankfurt, 0014 10/10 c&w programming. Checked 1106, and not parallel. (Fox, Yukon)

873 DOM. REP. HI??, Radio ?????? s/off 2205. (Schatz, Fla.)

880 GUATEMALA. TGJ, R. Nuevo Mundo, strong atop freq. 0040 10/12. (Dangerfield, Pa)
NEW ZEALAND. 1YC, Auckland, weak 0435 10/12. (Taylor, Calif.) Relays 2YC, Wellington, Pete. (Ed.)

881 WALES. B.B.C. Home Service here, tremendous S9+ signal, 0052 10/10, //908, 1052, 1008. Checked 809, 1151,1214, but only hets. (Fox, Yukon) Atop 0100 10/12, in

clear. In again on 10/15 w/ER all evening. (Dangerfield, Pa.)

890 ALGERIA. Algiers w/fantastic signal in EE 1700-1730, then into Spanish. Almost as good as WCBS-880, no sign of WLS. Announces "This is Algers, the National Broadcasting System of the People's Democratic Republic of Algeria." Both male & female anners, political talks, pop mx, African nx. 10/7. (Nelson, Mass.)

908 ENGLAND. B.B.C., London Regl, Brookmans Park, vy gd 10/15 w/ER all evening.
(Dangerfield, Pa.)
UNID. T.A. is being heard here around 2200 some nights; BBC not on yet, must be

Baghdad, unless another new Spaniard. (Nelson, Mass.)

910 MEXICO. XEAO, Mexicali, B.C.N., strong 10/19 at 0200 s/off. 250 watts.(Callarmn)

917 SPAIN. Arganda, believed to be the new RIN.E. outlet heard here since 9/17.

Fair level, s/off 1840. (Nelson, Mass.) Correcto. (Ed.)

920 CHINA? Unid. very strong nightly, but can't catch any ID; can't find any // out-let. (Fox, Yukon)
JAPAN. JOEF, Yamagata, in the clear at 0650 on 10/12. (Wilkinson, Calif.)

935 SPAIN. Montjuich, believed to be the new outlet here nightly around 2300; rather poor level. First heard 10/4. (Nelson, Mass.) EBU shows Barcelona I w/25 kw. here, Gordon. (Ed.)

962 TUNISIA. Tunis I s/on nightly w/good signal around 2330 w/open carrier; first

audio 0000 so don't give up. (Nelson, Mass.)

970 HAWAII. KHBC, Hilo, copied w/spotty, very weak signal 0300-0400 10/12, relays KGMB, ID's as same. On hour "This is KHBC, in Hilo." Hawaai #16. (Fox, Yuken) KOREA, SOUTH. HLCA, Suwon, call letters in EE twice by woman following several bars of music on chimes 0800 9/17. Woman anner still on 0815, same ID by woman, mentioned HLKI @ 0900 after pgm of children singing. (Fox, Yukon)

971 UNID. German here, 2230 ID 10/10 unfortunately lost, burst of static. However,

heard "Hessischer Rundfunk" & "Sudwestfunk" mentioned. (Fox, Yukon)

975 UNID. South American weakly around 2200, weird music, probably native Andean; strongly suspect Ecuadorian. HELP. (Nelson, Mass.) Ed Krejny, Ohio, IRCA editor, has verified HCAW2, Ondas del Pacifico, Guayaquil, Ecuador, w/5 kw. here. (Ed.)

975.17 COSTA RICA. TIRS, R. Atenea, San Jose, gives preceding station a very hard time nightly. (Nelson, Mass.) Who uses a BC221 frequency standard. (Ed.)

980 ALASKA. AFRN, Fort Greeley, ID & AFRS News 0205 9/20, does not relay Elmendorforiginating station. (Fox, Yukon) IDXD Page 6 October 24, 1964

990 HAWAII. KTRG, Henolulu, copied for report 0517-0600 w/folk songs 10/12, not new. (Fox, Yukon)

998 ANDORRA. R. Andorra, good level w/woman annor in French, Spanish music. To

1800 s/off. (Nelson, Mass.)

998 MOLDAVIA. Kishinev is definitely Russian speaker in around 2050-2130; heard // Ivov at this time, the latter a bit better. Ctrs. 66 & 67. (Nelson, Mass.)

AUSTRALIA. 2KY, Sydney, N.S.W., commercial pgmg 0547-0606 9/17. (Fox, Yukon) GUATEMALA. TGUX, R. Panamericana, Guatemala, good w/popular music, some songs in EE, at 2145 10/10. No sign of KDKA. (Kanney, Calif.)
TONGA IS. ZCO, Nuku'alofa, copied for report 0359-0444 9/25. (Fox, Yukon)

1034 HAITI. LIVEF, Cap-Haitien, w/close of VOA news in EE at 2018, apparently s/off 2025. Very rarely heard here in recent years for some reason, used to be quite a regular, both evening & early AM. (Millar, Wash.)

1040 NEW ZEALAND. 4ZB, Dunedin (Commercial) copied for report 0355-0410 9/24. (Fox)

1043 CERMAN D.R. Radio D.D.R. Dresden 2319-2400 10/2, very good signal, copied enough for a report. Still trying to pin down many other Europeans. (Fox,Y.T.)

1052 ENGLAND. B.B.C. West Regional, Start Point, in on 10/15 w/ER; best at 2130. (Dangerfield, Pa.)

1057 UNID. Spaniard heard here, seems to be northern Spain, fair signals around 1830 Who is this? (Nelson, Mass.) EBU no sabe. (Ed.)

1061 PORTUGAL. Vila do Conde audible to 2000 s/off, even through 1060. (Schatz,Fla)

1070 NEW ZEALAND. 1ZB, Auckland, briefly w/spot 0339 9/21. Jap made furt er copy impossible. (Fex, Yukon)

VENEZUELA. YVNG, R. Lagunillas, Lagunillas, dominant early evenings before WAPI takes over. (A pack of Winston's costs "un bolivar" per ads.) (Schatz, Fla)

1079 GERMAN D.R. Plauen, here briefly around 0030 9/26, rather poor. (Nelson, Mass.)
1088 ALRANIA. Tirana, good in lingo 2330 on; 10/12. Country #65. (Nelson, Mass.)
ENGLAND. B.B.C. Droitwichptvery good on 10/15w/ER all evening. (Dangerfield, PA)

1090 HAWAII. KHAI, Honolulu, in briefly 0902 9/19. (Fox, Yukon)

1097 UNID. Bratislava? 2300 10/8, woman annor, news until 1910 then mx., sounded

like Slavic language. (Fox, Yukon)

NEW ZEALAND. 3ZB, Christchurch, 0257-0331 9/21, vy good signal. (Fox, Yukon)

UNID. I feel rather silly reporting this, but I calls 'em as I sees 'em. Arabic music and language heard over/under KYW 10/11 around 1800; rather poor quality modulation, and went right through 1800 w/cut ID, so maybe isn't a domestic; KYW makes loop bearing impossible. How about it, you people w/EBU revision lists? (Nelson, Mass.) I feel even sillier suggesting the possibility of Bechar-550 harmonic! Nothing else possible listed. (Ed.)

1106 GERMAN. F.R. A.F.N. Stuttgart, reported. (Fox, Yukon) Munich now listed here. Stuttgart moved to 1142 ... but Piechuta a couple of issues back reported , someone on 548, so may have shuffled around again. (Ed.)

UNID. Evening 10/10 from 2255, no AFN heard. Presume Vilnius. (Fox, Yukon)

1110 AUSTRALIA. 2UW, Sydney, N.S.W. all morning 10/12. Lots of other DU's. (Fox) 1130 HAWAII. KLEI, Kailua, is on air, in briefly 0223 10/3 just finishing football

broadcast. (Fox, Yukon)
1150 ASIATIC RUSSIA. R. Moscow Far East Service outlet noted here #1250 since last

January. (Fox, Yukon)
1151 ENGLAND. BBC Home Service s/on? 0035 10/2, //809, 881, 1052, 1088, w/news til

0052, when each regional carried wx forecast. (Fox, Yukon)

1160 FRANCE. R.T.F. Strassbourg, noted s/on @ 2358 w/"La Marseillaise" // 336, 944, 1070, 1205, 1376. Nabbed a Frenchman living down the hall & drafted him as translator, so an A-1 report on all outlets. (Fox, Yukon) Date was 10/10. (Ed.)

1169 PORTUGAL. CSB30, R. Renascenca, Porto, logged as early as 0050 10/11 w/religations sermon. (Schatz, Fla.)

1196 GERMAN F.R. V.O.A., Munich, 2345 9/19, bestg in Czech. (Fox, Yukon)

1210 GREENLAND. Thule in almost every evening from 2300 Mainly RnR, the usual "Sound-sational" "Tops in mx from the top of the world" ID's. (Fox, Yukon)

HAWAII. KZOO, Honolulu, s/off 0202 9/26, said sked s/on 1200 M-F, s/on 0900
Sun, H.S.T. ID: "Kay-Zoo, K-Z-O-O, in Honolulu, the Cherry Blossom Stn." (Fox)

TDXD Page 7 October 24, 1964

1214 ENGLAND. B.B.C. Light Service, briefly 0010 9/24. (Fox, Yukon) Heard easily on 10/15 w/ER. (Dangerfield, Pa.) In clear M.'s w/pop mx, time checks, nx & wx @ hour & half-hour. Poor voice modulation. (Schatz, Fla.) s/on 10/14 2330 w/Big Ben, Light Programme ID, and weather. Tape cut, report out, the third TA report this fall. (Millar, Wash.)

1223 SPAIN. EFELL, V. de Madrid, here nightly from 2355 s/on w/excellent signal.

(Schatz, Fla.) EBU 7/1/64 list shows EFELL on 1079 w/2 kw. & EFE50, V. de Cataluna, Barcelona, 5 kw., and EFE23, V. de Guipuzcoa, San Sebastian, 5 kw., here.

Ron Schiller reported R.N.E. Madrid here last week. (ed.)

1232 MOROCCO. Tanger here at good level early evenings w/chanting. (Schatz, Fla.)

1248-9 UNID. SS heard weakly after 2400 & before 1830. EFJ57 - Canary Is. reported here. (Schatz; Fla.) Bears further checking. FBIS-63 shows EFJ57 here w/1.2 kw. EBU 7/1/64 shows EFJ57 on 1106 w/5 kw., but says has never been heard by EBU monitors. Go after this one, please, gang. (Ed.)

1250 ASIATIC RUSSIA. Khabarovsk S9+20 atop domestic, in Chinese, 10/12. (Taylor, Cal)

1275 COSTA RICA. TIRE, R. Emmaus, San Vito, Java, now operates eves. Good signal here. (Schatz, Fla.)

1290 JAPAN. JO.. weak Jap thru domestics, not enough 10/12. (Taylor, Calif.)

1295 ENGLAND. B.B.C. Crowborough, Foreign Svc., EE by Radio 0034 9/24. (Fox, Yukon).

1304 SENEGAL. Dakar quite good //764 around 1824 10/10. (Nelson, Mass.)

1310 MARTINIQUE. Fort-de-France caught for a few minutes at O612 while he was battling with JOLF, Tokyo. Will try earlier next Monday. (Wilkinson, Calif.) JAPAN. JOLF, Tokyo, w/Olympics S9+10 Oh2O 10/12. (Taylor, Calif.)

1315 COLOMBIA. HJAK, V. de la Patria, Barranquilla, logged 10/11 1900, clear ID's.

(Dangerfield, Pa.)

1322 COLOMBIA. HJHY, R. Morrosquillo, Sincelejo, here from 1330. (Schatz, Fla.)

1323 UNID. L.A. in at 2030 on 10/13, from tapes sounds like a Colombian, but I won't attempt an ID yet. (Dangerfield, Pa.)

1325 UNID. Who? at 2115 on 10/13 w/EE pgm re Olympics? Maybe 4VW, but not sure.

They in FF at 2127. (Dangerfield, Pa.)

1338 HONDURAS. HRH6, R. Mundo, San Pedro Sula, here from 1340. (Schatz, Fla.)

1340 NORTHERN IRELAND. B.B.C., Lisnagarvey, copied //to other DEC home service cutlets 0036-0108 10/12. (Fox, Yukon) Let's see anyone else in No. Am.get 'em.(Ed)

1358 Germans only live here now; no sign of Nigeria since 9/4; one German up particularly well around 0100 9/22 is probably Bremen. (Nelson, Mass.)

1370 JAPAN. NHK outlet strongest Jap ever heard S9+20 w/classical piano; still readable through KEEN OC/ET 0445 w/EE-JJ language lesson 10/12. (Taylor, Calif.)

1394 AUSTRIA. Graz best bet for Unid. T.A. North-Central European around 1920 10/10. Went too fast for ID. No chance that it would be Azores, says loop. (Nelson)

1395 ECUADOR. HCVE4, R. Esmeraldas, made a very rare visit 1855-1915 10/11; poor to fair level, bad fade. (Nelson, Mass.)

1403 FRANCE. R.T.F. finally logged through WFTL QRM 10/12. (Schatz, Fla.)

1413 DOM. REP. HIAE, R. Tricolor, Santo Domingo, here (again) from 1420. (Schatz)
1420 MEXICO. XER-C, R. Ranchito, Chihuahua, Chih. logged 2230 to 2303 s/off 10/18.

Plays Ranchero mx, w/time chex preceded by barking Chihuahua dogs. Fourth letter in call slurred, could be "F" or "E". Not XEIInow. (Callarman, Tex.)

1425 UNID. L.A. W/cx mx past 2400, probably TICJ, few annots. (Schatz, Fla.)

1450 ATASKA. KLAM, Cordova, briefly 0208 10/8, Alaska Election Results, should have been good for those outside. (Fox, Yukon)

JAPAN. Who is strong Jap here? (Fox, Yukon)

1457 ENGLAND. B.D.C. West Regl, Clevedon, very good at 0035 on 10/12, and on 10/15 w/ER until about 2140 s/off. (Dangerfield, Pa.) Very good nightly after 0045

or so. (Nelson, Mass.)

1460 NEW ZEALAND. 4YW, Westport, 0400-0420, poor signal 10/2, but enough for report.

Best N.Z. here w/2 kw. (Fox, Yukon)

1458 No sign of Nigerian here since beginning of September; only Europeans heard on

channels formerly occupied by Africans. (Nelson, Mass.)

1480 MEXICO. Unid. w/2-voice request show 10/19 0137-0150, submarined by KCKW r/c, and gone when tone finished 0205. Who? (Callarman, Tex.)

IDXD Page 8 October 24, 1964 1484 A terrible graveyard of TA's here around 0145 on 10/11. English up very briefly must have been BBC Barrow/Ramsgate. (Nelson, Mass.) . 1495 INTL. WATERS. R. Caroline II very strong past 2400 w/pop mx. Slight QRM from local WMDM. (Schatz, Fla.) 1510 DOM. REP. HIBL, R. Mil Cumbra, Santiago, new, in well after sundown. (Schatz) JAPAN. NHK's S9 0357 10/12. (Taylor, Calif.) 1529 VATICAN. Vatican Radio a large surprise as early as 1634 fade in; fairly good signal by 1700 when seemed to s/off; Typical programming 10/11. (Nelson, Mass.) 1540 BAHAMAS. ZNS, Nassau, is only easy here in Mass. around 1630 before WPTR takes over. (Nelson, Mass.) 1560 MEXICO. Unid. very weak 10/19 0235 to 0303 s/off w/Ranchero music. (Callarman) 1586 NICARAGUA. YNE, La Una, Managua, here from 1580, new station. (Schatz, Fla.) 1596 COLOMBIA. HJZT, R. Ciudad Milacro, Armenia, here from 1600. (Schatz, Fla.) VERIFICATIONS ---685 GUATEMALA. TGRT, R. Fabulosa, Guatemala, nice v/1 on colorful letterhead signed by Francisco Maza C., director. Sent "Tarjeta de QSL" & pocket diary. Uses 10,000 watts, listed 680. Address: Apartado 1466, only station in country with compatible single sideband, says letterhead. (Callarman, Texas.) 818 ANDCRRA. R. des Vallees d'Andorre, Claude Delepine sent newspaper clipping from MIDI LIBRE w/story about the station devoting a paragraph to my reception report along with explicit QSL. Sked 0100-1500 FF, 1500-1900 daily French & Spanish, on Sundays runs until 2100 in Spanish. 300 kw. (Nelson, Mass.) ** AROUND THE WORLD --840 AUSTRALIA. 6ED, Esperance, W. A., National Station, call assigned. (NZDXT) 1020 TONGA. Legal time now 1 hour chead of N.Z. time (6 behind E.S.T.) (NZDXT) 1320 AUSTRALIA. 4NA, Nambour, Qsld. Commercial station, call assigned. (NZDXT) 1502 POLAND. Warsaw, winter sked shows 0130-0200 Chopin concert; 06300-0655, German; 0730-0800 Intl Concert; 1100-1130 Chopin Concert; 1200-1230 German; 1230-1300 French; 1330-1400 German; 1400-1500 Intl Concert, 1700-1730 French.(SCDX#779) 1540 NEW ZEALAND. 2ZE, 1 kw., Elenheim, to be constructed by N.Z.B.C. Will be on the air only a limited number of hours. To use a 130-foot tower, and is expected to be ready by March. (NZDXT)

ARMED FORCES RADIO TELEVISION SERVICE- Direct from the Pentagon, here is a list of operational North American (except Alaskan) AFRTS stations: 780 PUERTO RICO. Ramey AFB 50 watts 790 PANAMA CANAL ZONE. Fort Clayton 5 kw. 1200 PUERTO RICO. Roosevelt Roads Naval Station 50 watts Fort Allen 50 watts Fort Brooke 50 watts 1340 GUANTANAMO BAY. Guantanamo Naval Station 1 kw. 1480 CANADA. Argentia Naval Stn., Nfld. 50 watts 1490 CANADA: Harmon AFB, Nfld. 50 watts. 1550 TRINIDAD. Port of Spain 1 kw. (Nelson, Mass.) FOREIGN C O N T E S T entires continue to pour in to Ben Dangerfield, 202 Governor's Drive, Chester, Pa. 19013, with added impetus given this year by donations of \$5.00 cash prizes for each league as follows: Western League, donated by Hank Wilkinson; Central by John Callarman; Eastern by Ben Dangerfield. This in addition to the regular prizes. See IDXD Vol. 32, No. 1, for contest rules, add all states left out of list to the Western League, and mail your 50¢ entry fee to Ben. Them that did it this time are Ben Dangerfield, 202 Governor's Drive, Chester, Pa.

19013; Leo Fox, c/o UKHM, Calumet, Elsa P.O., Yukon Ty., CANADA, Don Kenney, 834; Hartzell St., Pacific Palisades, Calif. 90272; Roy H. Millar, Box 91, Marysville, Wash. 98270; Gordon P. Nelson, 19 Irma Ave., Watertown, Mass.; Ronald F. Schatz, 8065 Crespi Blvd., Miami Beach, Fla. 33141; Peter V. Taylor, c/of KFOG, 420 Taylor St., San Francisco, Calif. 94102; Frank Wheeler, 6589 Wattsburg Rd., Erie, Pa.16509; Henry J. Wilkinson Jr., 6620 Beeman Ave., North Hollywood, Calif. 91606. Tnx, Cangl

A "SHORT" QUARTER WAVE VERTICAL FOR THE BROADCAST BAND Mary Prusinski, K8UNI

Recently while tuning up a vertical for the 160 meter amateur band I discovered that I was able to bring same to resonance at about 1550 kc. Since I started out originally as a Broadcast Band listener I decided to experiment further and found that by extending the top section of the antenna, I could reach approximately 1100 kc.

Most Broadcast DXers know, I'm sure, that Broadcast stations are vertically polarized and that for maximum sensitivity a similar antenna must be used. The vertical also has a low angle of radiation making it very good for long range DX.

The antenna itself is quite simple. It consists of 20 feet of aluminum tubing, 1 inch in diameter. At the top of this section is a 160-meter loading coil. These are available in most amateur supply stores or from any of the mail order houses. I use a Webster Hy-Topper myself. A Master-Mobile or other type could be used. By placing a 60 inch whip at the top of the coil the resonant point should be between 1550 and 1750 depending on surroudning objects and your particular installation. A 102 inch citizens band whip will bring the antenna well into the broadcast band. (1100 kc. here).

If mounted very near the ground, roughly 6 inches or less, the input impedance of the antenna will be in the vicinity of 50 ohms, and should match easily with any type of 52 ohm coax. Most receivers with an antenna tuning/matching device built in will tune to 52 ohms without any problem.

In the event your receiver has an input impedance of a fixed value such as 300 ohms or 150 ohms a balun transformer can be used. Miniature transformers for converting from 300 ohm line to coax are usually available in radio parts stores and even in TV repair shops since they are used in installations where coax is used to a TV antenna instead of twin lead. The transformer should be mounted at the base of the antenna and waterproofed.

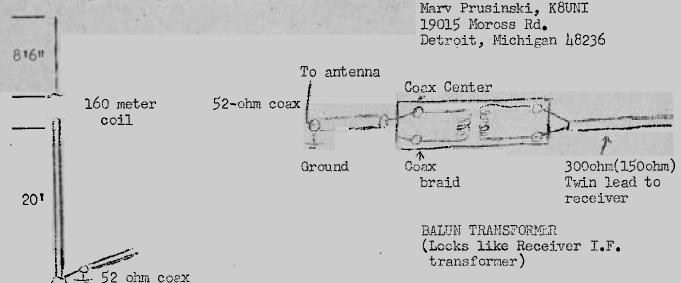
The base of the antenna should be insulated from ground. A "coke" bottle will do if the first section of the aluminum tubing will slide down over the neck of the bottle.

Ground the coax braid to a good ground. Eight foot and/or four foot ground rods are sold in most TV stores and do a good job.

Naturally, any guying should be done with plastic, glass or other non-metal lines.

I would not suggest putting this type of antenna on a roof top. Moving the radiator higher above ground will change the impedence, resonance, and will require the use of radials. It works just fine the way it is----6 inches above the earth.

Remember though, this antenna is designed for sensitivity, not selectivity. You may increase the signal strength of the DX station, but you will also increase the strength of any interference.



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Send DXDD tips to J. W. Brauner, RD 1, Box 61, Punxeutawney, Page ___ 15767
 Kcs.
       Call
               Remarks
  570
       WSYR Syracuse, N.Y. RS 4:00 A to 11:00 P.
                                                    Edmunds
       KGMB Honolulu, RS 500 A-12:00 M. Hawaiin Time,
  620
       WHEN Syrucuse, N.Y. RS 5:00 A.-2300, Edmunds
  620
       WLBZ Bangor, Me. RS 5:30 A .- (Sun. 7:30) -12:05 A. local time, Johanns
  730
       WJTO Bath, Me. Sun. S/on 6:00 A. JWB
  730
       WACE Chicopee, Mass. Sun. S/on 6:00 A. JWB (Oct.)
       WPIK Alexandria, Va. Daily S/on 6:10, (Oct.) JWB
  760
       KCU Honolulu, 24 hours sked. Johanns
  830
       KIKI Honolulu, 24 hour sked, Johanns
  850
       WJW Cleveland, O. is AN MM's, Johnson, (Ev)
  940
      KAHU Waipahu, Sked 4:47 - 10:30 Hawaiinn time, Johanns
      KFVS Cape Girardeau, Mo. S/on 7:00 A. S/off 12:57, Ev Johnson
  960
  990 - KTRC Honolulu, Sked 24 hours, Johanns
 1010
       KXEN St. Louis. Mo. Oct. s/off 6:30 P. Ev Johnson
 1050
       WSEN Buldwinsville, N.Y. Oct. sked. 6:15 A .- 5:30 P.
 1090
       WCRA Effingham, Ill. Oct. S/off 6:15 P. Ev Johnson
 1090
       KHAI Honolulu; Sked. 24 hrs.: Johanns
 1090
       WMUS Muskegan, Mich. Sunday S/off 6:00 P. Ev Johnso:
 1110
       MMBI Chicago, Ill. Oct. S/off 6:15 P. Ev Johnson
 1210
       KZ00 Honolulu, Sked. 5:00 A/-11:00 P. Hawian time, Johanns
 1220
      CKCW Moncton, N.B. On around 4:15, clear B4 WGAR's 4:30 S/on, Johanns
 1220
       WSOQ N. Syrucuse, N.Y. Oct. sked. 6:15 A.-5:30 P. Edmunds
 1270
       KNDI Honolulu, Sked 6:00 A .- 12:00 Mdt. H. Time, Johanns
 1300
       WBSC Fulton, N.Y, Oct. sked. 5:00 A.-5:30 P. Edmunds.
 1300
       KGLO Muson City, Towa r/c Sun. 10/18, 1:00-1:05 A. Mike Tilbrook
 132D
       WOSR Solvey, N.Y. Oct. sked. 6:00 A.-5:15 P. Edeunds
 1320
       WIMG Horhell, N.Y. 4:30 A. (Sun. 6:00) to 6:30 F. Johanns
       WFBL Syrucuse, N.Y. RS 0400-0000, Edmunds.
 1390
      KLEE Uttumwa, Iowa had TT/FC 3rd Sat. 1:00-1:30, S/on 6:00 A. Ev.
 1480
 1320
       WAKX Superior, Wis. R/C is 3rd Sat. 1:45 - 2:00 A. Ev Johnson.
 148
       WHBC Canton, O. S/on MM at 4:30, Ev Johnson
      WTUP Tupelo, Miss. is AN, NSP. Ev. Johnson
 1490
       WESB Bradford, Pa. Sbdd 5:00 A.-(Sun. 7:00) to 11:55 P. Johanns
 1490
 1490
       WBTA Batavia, N.Y. 4:45 A. (Sun. 6:55.) to 11:00 P. Johanns
 1500
       KUMU Honolulu, Sked is 24 hrs., Johanns.
 1500
       WTOP Washington, D.C. S/on MM at 4:30, Ev. Johnson
 1510
       KMOR Littleton, Colo. had test Oct. 12, 3:00-3:30, Ev.
 1510
      KABH Midland, Tex. R/C is 3rd Sat. 1:10-1:30 (TT) Ev.
 1510
      WPSL Monroevillo, Pa. Oct. stoff 5:45 P. Tilbrook
      WJRC Joliet, Ill. Oct. S/off is 6:59 P. Tilbrook
CHFI Toronto, Out. Oct. S/off is 5:30 P. Edmunds
 1510
1540
 1550
      M.O. Braddock, Pa. Oct. S/off is 5:44 P. Tilbrock
1560
      KACB Council Bluffs, Iowa Oct. S/off 6:43 P. Tilbrook.
 1560
       WIDD Toledo, O. Sunday S/on. (oct) 6:45 A. JWB
 1560 WAGE Lancaster, S.C. Oct. Sun. S/on 7:00 A. JWB
 1570
      WQTW Latrobo, Pa. Oct. S/off 5:42 P. Tilbrook
 1570
      WYTI Rocky Mount, Va. Oct. S/off 5:45 P., Tilbrook
 1570
       WAES Ashburn, Ga. had Band music FC on 3rd Tue. 1:15-1:30 A. JWB
1580
      WPMP Puscagoula, Misd. Wrocked by 'Hilda', towers 100% demolished, Hoffmann
 1590
      WAWA West Allis, Wis. Oct. S/off 7:15 P. Tilbrook
1590
      WAIK Galesburg, Ill. Oct. S/off 6:29 P. Tilbrook.
      WCLS Columbus, Ga. S/off Sun. at 1:00 A. Ev Johnson
X1580
1590
      WTVB Coldwater, Mich. S/off 11:30 P. Ev.
1590
      WAUB Auburn, N.Y. Oct. S/off 5:30 P. Edmunds
1600
      WMCR Oneida, N.Y. Oct. S/off 5:00 P. Edmunds
      WTYM E. Longmeadow, Mass. Oct. S/off 5:20 P. Edmunds
 1600
 1600
       WAQI Ashtabula, O. Oct. S/off 5:45 P. Edmunds
 1600
       WENG Sag Harbor, N.Y. Oct. S/off 5:15 P. Edmunds
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WHVL Hendersonville, N. C. now conducting e/t. Hrd 10/21 1:15 a.m. (Dick)

1600