



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 45, Number 3

Monday, Oct. 31, 1977.

STATIC FROM HQ

OK out there gang, all these weeks we've been doing the work and now's your chance to help out--HQ needs some volunteer typists to help out on an occasional basis with special articles, etc. Also, we need your help in reporting to the columns and participating in DX News--this IS your club, so after you hear something--report it to the proper column and become famous by seeing your name in print!

CPC TESTS

Jul -

Nov. 7 KOMW-680 Omak, Wash. 0300-0330 with 5000w. nondirectional. Will use Sousa marches, TT and many IDs. V/S Jerry Robinson, CE, KOMW, Box 151, Omak, Wash. 98841. Arr: Steve Francis.

Nov. 14 WCAZ-990 Carthage, Ill. 0115-0130 with 1000w. w/TT and voice IDs. Modification of regular frequency check. V/S to Station Manager WCAZ, 84 S. Madison St., Carthage, Ill. 62321. Arr: John Kromka.

Nov. 14 KVNU-610 Logan, Utah 0300-0400 with 5000w. nondirectional. Tape is prerecorded and includes code IDs and tones. Voice IDs and music also will be played. V/S Bill Traue, Director of Engineering, KVNU Radio, P.O. Box 267, Logan, Utah 84321. Prepaid calls at (801) 752-5141 or 753-1977 are welcome. Bill Traue is an NRC member--thanks much Bill and thanks also to Ron Musco for arranging this test.

Nov. 20 CJGX-940 Tyorkton, Sask., Canada. Time, details TBA. Arr: K. Andrews

Nov. 28 KLUC-1140 Las Vegas 0300-0900 Will use 10,000w. nondirectional. and V/S Dave Anthony, Program Director, KLUC, Box 14805, Las Vegas, Dec. 5 Nev. 89114. Arr: Ron Musco.

Dec. 5 WMTR-1250 Morristown, N.J. 0000-0300. Will possibly also run later. or Use 5000w. No pgm. details yet, TBA. CE is verie signer, %WMTR.

Dec. 12 More details to appear shortly. Arr: David Williams.

Dec. 19 KVNU-610 Logan, Utah. This test will run twice. See Nov. 14 listing for complete details. Arr: Ron Musco.

Regular Check....WGSR-1570 Millen, Ga. 2nd Monday morning of month from 0230-?

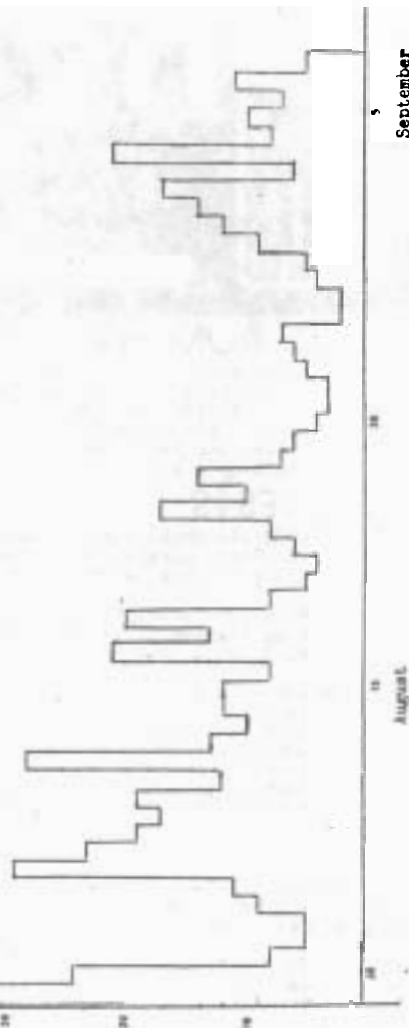
THEY JOINED

Edward F. Lawlor, 5 Pauline, Carteret, N.J. 07008.
Hugh A. Mansley, 15 North St., Apt. 4, Perth, Ontario CANADA
D. M. Clark, 1 Howell Square, Scarborough, Ontario M1B 1C3 CANADA
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This graph shows the daily variations in Afr. the Fredericksburg (VA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate MW signals in upper latitude paths will likely be absorbed, thus resulting in "auroral conditions", with signals from the South and from local stations predominating. Low values over a period of time indicate a likelihood of more receptions on the higher latitude paths---more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to residual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high latitude conditions throughout the entire MW band, although this is not the only requirement. For more information on the use of the Afr and related indices as a DX tool, consult the NRC Reprints List for relevant articles -- Russ Edmunds.



DOMESTIC DX DIGEST REPORTERS:

EDF	Eric Pader	Bayside, NY	TRF
TF	Ted Fleischaker	Near Jeffersontown, KY	HQ-129
GH	Gary Houdek	Munden, KS	Western Auto
DS	Dave Schmidt	New Castle, DE	Conrail Mainline
RCW	Richard Waterman	Wouthwick, MA	HA-500A
SEW	Sharon Waterman	Wouthwick, MA	HA-500A
ECR	Me	Berkeley, CA	HQ-160, SN-2

NOTLEY'S CREW



via Chuck Hutton



HI All

Some contest entries arrived on my deadline date, some went to MP, and some are no-doubt still coming, so I think I'll hold off until next week and get it all into one issue. It looks as though response to the contest was really fantastic, as I have a whole pile of very large reports already... Since I've only got one report from anywhere other than the East Coast, the new format will be put off until next week.

Sunset to Midnight

1060	WQWX	NC	WREANE, 9/29, rigs mx, tlk, s/off 1930 (RCW)
1270	WOKT	VA	NEWPORT NEWS, 9/24 1503-1520+ loud w/C&W o/WIDL, WLBR nulled. (DS-DE)
1380	WIZO	TN	FRANKLIN, 9/11 1958-2000 s/off gd w/WAMS nulled, ments 5kw, FM at 100.1, then "TN Waltz" to carrier off. (DS)
1470	WHUT	IN	ANDERSON, 9/7 w/mx/lcl ads 1910 (TF-KY)
	WVOL	TN	NASHVILLE, 9/7 w/ID, mx u/WHUT 1955 (TF-KY)
1580	WBNR	SC	TRAVELLERS REST, 9/28 s/off 1944 (RCW-MA)
	WLIJ	TN	SHELBYVILLE, 9/28 s/off 2000 (RCW-MA)
	WMTL	KY	SMITHFIELD, 10/9 s/off 1916. (RCW-MA)

Midnight to Sunrise

590	WCM	NE	OMAHA, Off 0424 w/loud tone, still off after 0500 (GH-KS)
790	CHIC	ON	BRAMPTON, 9/18 noted AN this MM w/rr. Seemed off, though on MM 9/26 0005. (DS-DE)
930	CFBC	NB	ST JONES, 9/18 0117-0130+ w/rr in din, Tom Kelley show, WHEN may have been off. (DS-DE)
980	CRDM	PQ	MONTREAL, 9/18 0140, this one is out of the question this year, they got to be running their pattern flipped over, noted +40 db o/S-9 w/rr, Denny Martell show, a new Milington local. (DS-DE)
930	NJAX	FL	JACKSONVILLE, 9/24 0210-0230 ET/TT, ID into schmalts. (DS)
1060	KYW	PA	PHILADELPHIA, 10/3 off 0005, usually 0100 or so. (DS-DE)
1070	WFLI	TN	LOOKOUT MTN, 9/29 0106 loud on ET/rr, IDs as "Chattanooga/Lat Mtn". (DS-DE)
1220	CKEM	PQ	SHAWNIGAN FALLS, 10/10, sked chg as on w/EE rr 0220 MM.
1230	FFC	PQ	UNID, relaying CKLD-1330 0110-0115 MM 10/10, fair w/CHVD. Is this new Dierrell PQ stn mtd in updaters? (EDF)
1270	KFJE	TX	PT WORTH, 10/4 2218 mx/ID. (GH-KS)
1290	WTOG	GA	SAVANNAH, 10/10 w/CBS nx, CMM, AM-FM ID 0308-0330. (EDF)
1320	WRHO	NY	ROCHELL, 10/10 atop w/ET/mx 0236. (EDF-NY)
1330	CKLD	PQ	THEYFORD MINES, 10/10 ex 1230, relog MM 0102-0115 plus 1230/1340 relays w/EE rr, FF talk. (EDF-NY)
1340	FFC	PQ	UNID, 10/10 relaying CKLD-1330 0106-0115 MM. (EDF-NY)
1380	CKPC	ON	BRANTFORD, 10/2 atop w/nx, ments Brantford 0602-05. (SEW)
1400	WKBI	PA	ST MARYS, 10/9 in briefly w/WKBI now lvs the air... 0000. (RCW-MA)
	CKCB	ON	COLLINGWOOD, 10/10 atop w/rr 0320-0337 MM w/CKCB...CKRB IDs. Sked change. (EDF-NY)
1450	UNID	??	10/10 TTer w/weirds noises; low--1kx-high tone, indescribable misc sounds 0027-0040 (on and off) MM. (EDF) Sounds really weird. What were you smoking at the time?? HI--ECR...
1460	WVDX	NY	NEW ROCHELLE, lol ET/TT MM 10/10 0026. (EDF-NY)
1470	WLAM	ME	LEWISTON, 10/10 w/WFIL type jx (??-ECR) 0305. (EDF-NY)
1480	WY2E	GA	ATLANTA, 10/10 w/TT/ID w/WHI during NRC TEST 002B.(TF)
1490	WVEC	VA	RAMPTON, 10/3 s/off 0001 w/WVHR FM, to rtn 0530. (DS-DE)
1590	WVGE	NC	CHARLOTTE, 10/3 0600 s/on briefly before WHPY, lol WQIQ still off. (DS-DE)
	WAEN	PA	ROCHESTER, 10/10 w/pop nx, IDs during NRC TEST 0012. (TF)
			** 10/10 TEST broke through 0013-0016 w/IDs, nx, dg sig.
1590	WQQW	CT	WATERBURY, 10/10 s/off 0006, log change? (EDF-NY) (EDF)

INTERNATIONAL DX DIGEST

CHUCK HUTTON
P.O. BOX 2087
DECATUR, GA. 30030
404-633-1198
(BEFORE 2300 ELT)

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Tuesdays.

164 FRANCE Allouis from 0430-0500 on 10/10, poor with MoR mx and news or talk at 0500 after 5 time pips. (Podá)

529 ALGERIA Ain Beida fair w/AA talk, long pauses (like a play), drums sometimes in the background 2253 10/8. (Connelly)

545 DOMINICA Roseau R. Jumbo good w/man and woman in FF 2254 10/8.

548 ALGERIA Oran very good, sometimes better than 550; female AA vocal with violins. (Connelly, last 2)

575 COSTA RICA San Jose R. Omega at 0405 10/2. Fair volume, ID and talk in Spanish. Omega ID heard after every record. (Podá) Loud w/ID at 0458 then SS mx, OC at 0500 10/8. (Connelly)

584 USSR Svobodnyy noted first time this year at 1326 10/9. // to 647 in CC. (Kaskey) re Wilkinson's report of this in RR to 1230, JJ after that, they are sked in CC from 1130-1430 with R. Moscow pgm. The sked may have changed but they have not been heard in RR. For years this has been all CC. (Seaver)

590 CUBA CMW Havana off the air for the past 2 weeks and still off as of 10/12. (Whaley) Oh, that it could be permanent!-CH

600 CUBA San German CMKV R. Rebelde now on 24 hours to cover for CMW. Usually on only during evening hours. (Whaley)

612 MOROCCO Sebba-Aioun potent w/AA vocal mx, croaking 610 domestics 2256 10/8. Good w/man in AA 2318 10/9. (Connelly)

645 CHINA Beijing fair-poor signal 9/6 from 1323 on in CC, separable from 647. (Kaskey)

647 USSR Iman first noted 9/6 at 1330 w/het. Often noted lately but more w/het than audio. Audio will get stronger late October and November. (Kaskey)

650 ALASKA KYAK Anchorage noted 10/5 at 0851 w/c&w mx atop WSM/KORL. Few times since. Much weaker than KFAR-KFQD. (Kaskey)

HAWAII KORL Honolulu pretty regular in September and October from 0700-1400. Some WSM QRM but KORL atop as often as not. (Kaskey)

MEXICO XETNT Los Mochis atop at 1236 9/10, no KORL. Has now become a regular 1200-1300/ (Kaskey)

655 NORTH KOREA regular here September-October from 1200-1400. Severe KNBR jam type sig prevents normal excellent reception. (Kaskey) 1255-1300 10/4 YL with KK talk. - - - pips on the hour. (Bergman)

660 ALASKA KFAR Fairbanks first noted 10/5 at 0802 w/rr, ID's, election results, time, etc. with fairly good signal. Been noted regularly in 0700-1400 time spot thru 10/13. Much better and earlier than last year. (Kaskey)

660 MEXICO DF XERPM with slow guitar mx 10/8 at 0530, then TC and ID as "Seiscento sesenta, musica de . . ." (Seaver)

700 ALASKA ???? most likely KBYR 10/5 from 0910-0935 tune out. When KNBR/KCBS would rarely allow I noted old pop hits and definite US type programming but too much slop to ID. (Kaskey)

JAPAN synchros regular here in September and October from 1200-1400 w/NHK2 pgm. Always weak but able to penetrate the slop.

715 SOUTH KOREA HLKA Seoul first noted 9/10 at 1232 and getting better by the day. // HLKH 880 and HLKB 890 most always. (Kaskey, last 2)

719 PORTUGAL Norte good on car rx 2216 10/9. (Connelly)

720 CHINA Beijing devastating KDWN 10/9 from 1350-1410 w/instrumental mx and talk. Typical Chinese pips (11 second sequence, 5 low then one high) at 1400. What wasn't typical was that a second set of 5&1 pips was also heard below them. Another CC WRTM doesn't know about? (Kaskey)

CUBA Colon CMGN snuck thru KUAI/WGN for a few minutes 0848-0855 on 9/26. (Kaskey)

HAWAII KUAI Eleee had good sig 9/26 w/KDWN off 0816-0901 s/off. Atop WGN/CMGN 95% of the time. (Kaskey)

ON THE DOMESTIC SCENE:

WXAP did not test. The CE with whom the test was arranged moved on to other pastures. The address for WYZE just recently changed. Reports go to WYZE, 1111 Boulevard, S.E., Atlanta, GA 30312. (This per a call from Chuck Hutton)

725 SURINAM Paramaribo loud w/sports results in DD 2237 10/8. (Con)

737 SPAIN Barcelona fair: SS talk at low modulation level thru CBNM/CBL slop 2326 10/9. (Connelly)

740 TAHITI Papeete traces of FF talk 9/5 at 0712, seemed // 6135. KCMC TT plus KCBS OC killed it. (Seaver)

746 UPPER VOLTA Ouagadougou fair w/African folk mx 2308 10/9. (Connelly)

750 ALASKA KFQD Anchorage first noted 10/5 at 0824 w/talk show. News at 0900 and into chicken rock mx. Has been good ever since, even overriding JOIB later in the morning. (Kaskey) Here 9/5 at 0910, weak w/call ID. (Seaver)

JAPAN JOIB 1223 on 10/7. This is tentative-JJ talk // 830, but no ID. (Bergman) Usually atop Sep-Oct from 1200-1300 fighting KCBS slop. KXL s/on at 1300 takes over. (Kaskey)

755 PORTUGAL Lisboa in w/cl mx at powerful level 2309 10/9. (Connelly)

760 HAWAII KGU heard daily easily thru KFMB null. Sometimes will easily override KFMB for lengthy times 0700-1400. (Kaskey)

770 JAPAN JOUB Akita is the easiest TP for WCNA'ers in September-October. After KOB faded out about 1300 this one becomes a block-buster. NHK2, gives call ID at 1500 s/off which will be easier once DST goes off. On 9/6 and 9/10 noted 6 pips beneath which was probably 3LO which I heard in July. (Kaskey)

780 JAPAN the synchros surfaced atop (w/KCRL off) 9/18 at 1315 w/talk in JJ. NHK1, and // 840-880-890 at the time. (Kaskey)

UNID 9/11 w/KCRL off, UFO here 1325-1335. Had opera song and sounded CC. Sig v/weak and faded 1340. Probably China. (Kaskey)

770 JAPAN (out of order and most sorry Marc) JOUB at 1329 9/28 w/JJ talk. At 20 past the hour had EE lessons. Strong signal; my first JJ and TP. (Bergman)

780 ALASKA KNOM Nome in fair to good w/WBBM looped and KCRL off 9/5 from 0802-0930. ID at 0929 as "Radio 78, K-N-O-M Nome". (Seaver)

BRITISH VIRGIN ISLANDS ZBV1 Roadtown fair w/reggae mx and over the mainland QRM buzz 2228 10/8. (Connelly)

UNID two stns took over from the JJ 9/18 at 1320. One w/instrumental cl mx and the other with old US standards. The latter had a YL anncr w/Asian accented EE, gave nx at 1400. 4YA and AFKN maybe but who knows? KCRL has not had a SP since. (Kaskey)

782 USSR (tentative) Spaask Dalniy very likely the one w/daily het against KCRL from 1200-1400 during September-October. Very strong 10/13 but no audio possible yet. (Kaskey)

785 NORTH KOREA with fair-mushy signal 10/7 at 1342. Only time this year. (Kaskey)

790 MEXICO Chihuahua XERPC good 9/17 with LABC off. "R. Ranchito" ID at 0934 and "RPC R. Ranchito" at 0949. (Seaver)

800 NETHERLANDS ANTILLES TWR Bonaire recorded w/ID at 0500-"Your radio dial is tuned to TWR, Bonaire NA. A friendly voice in the south Caribbean". (Rychalsky)

810 BAHAMAS Freeport ZNS3 w/light cl mx, mention of R. Bahamas by femme at 1725. Weak o/u WSJC w/WSST slop 10/9. (Whaley)

818 ANDORRA La Vieja blasting in, totally dominant on car rx at coastal location; disco rock then FF talk at 2234 10/9. (Connelly)

820 UNID SS LA drumming away. (Rychalsky) probably HJED-CH

830 COLOMBIA HJED Cali with CARACOL ID 10/8 at 1526 u/WBAP. (Seaver)

HAWAII KIKI always there 0700-1400 in September-October but usually u/WCCO or JOBB. (Kaskey) heard o/WCCO 9/25 at 0654 with call ID. Easily heard most AM's after WCCO fadeout in JOBB null. (Seaver)

JAPAN JOBB Osaka another good bet for JJ. Dominates KIKI during 1200-1400 period all thru September-October. NHK2, along with the other NHK2 stns goes into a Spanish pgm 1400 Sat AM and EE pgm 1400 Sunday. (Kaskey) 1320 10/5 good ID in EE by YL. // JOUB. (Bergman)

834 BELIZE good signal here throughout broadcast sked. With talk on Belize agriculture by EE accented male 1514 10/9. (Whaley) 0506 s/off w/prayer, Belize NA, then GSTQ. (Rychalsky)

835 CHINA Nanchang heard 1200 on 10/8 w/CC talk, then anthem type mx and pips on the hour. (Bergman) regular September-October w/CC pgm. Usually surfaces about 1230 w/fair sig and improves until 1400 when it starts fading out. (Kaskey)

840 USSR/JAPAN Spaask Dalniy and Niigata here most AM's from 1100-1200 with WHAS nulled. HLKY there only rarely for me. Wilkinson's report of HLKY with chimes and six pips is erroneous; that's the Russian Mayak chimes and pips he is hearing. (Seaver)

CHINA either Haerbin or Fujien 10/9 at 1300 with strong sig atop the USSR and HLKY. Gave 5&1 11 second sequence pips and CC style programming. This is a new one for me on a great China morning. (Kaskey)

JAPAN JOQK Niigata, NHK1. Surfaces atop occasionally September &

(continued) October from 1200-1400 w/NHK programming and 3+1 pips in the hour. Not heard as often as last year tho. (Kaskey)
 SOUTH KOREA HLKY Seoul, CBS outlet. Usually the weakest of the 4 but in there 10/9 at 1300 and 1400 w/chimes below the USSR, JOQK, and China. Will eventually surface most likely in late October and November to be the strongest. (Kaskey)
 USSR Spusk-Dalniy the most regular of at least 4 stns heard here in September-October between 1200-1415. Has melodic "Midnight in Moscow" or Mayak chimes on the hour and shorter version on the half hour. Gives six pips, note B in key of C on the hour. Hank W.-this is the stn you reported as HLKY in 9/26 and 10/10 DXNs w/ chimes and six beeps. No doubt you also had HLKY as they also use chimes (different tho) but a 2 low, 1 high set of pips. Usually at least 3 stns in together so you probably had both. (Kaskey)
 PANAMA HOL80 got hot 9/26 and dominated freq 0415-0700. Rejected Murley's Law and surfaced for R. Libertad ID's at 0500, 0600, and 0700. (Kaskey)
 TARAWA VS21 any day you want it since early September from 0730-0930. Usually peaks around 0815; island programming w/mucho drums and chanting. (Kaskey)
 DOMINICAN REPUBLIC Santo Domingo HILR is still here on 860; noted dominant w/SS talk and R. Clarin ID 0525 10/9. (Connelly) I think you misinterpreted an item from the feature stuff. Clarin has a new tx on 850 in Santiago-this was not meant to imply that the 860 tx is off the air-CH
 NORTH KOREA Wonsan noted here 9/26, 9/30, and 10/3 // 820 with KCBS pgm. (Seaver)
 CHINA three stns listed here. One coming thru 9/10 at 1250 o/JOGB with typical CC style pgm. Haven't heard it since. (Kaskey)
 JAPAN JOGB Kumamoto dominates September-October 1200-1300 when KIEV signs on. Can usually be heard 1300-1400 u/KIEV, seldom as strong as JOUB/JOBB. (Kaskey)
 UNID het noted here 1200-1400 both 10/7 and 10/13. Strong but no audio. Could be NK down from 878 but then again could be anything.
 JAPAN JOPK Shizuoka atop on 9/18 from 1301-1310. 9/26 with pips and JJ programming at 1400, NHK1. Has not been atop and seldom heard since. (Kaskey, last two)
 SOUTH KOREA HLKH Gwangjou atop 10/2 at 1300 and dominating stn ever since. Has distinctive IS at 1300, KBS ID, HLKH call ID, and a series of chimes followed by a clock striking sonorously 3 times. Has KBS and HLKH ID's at 1400 but no chimes or clock striking. Has really been solid at times but always several stns are underneath. At 1300 10/2 four sets of pips were defined. At least one Chinese stn in there and who knows what else. Oh yes, like last year So. Korea likes to vary; some times they use 3&1 pips and some times only 2&1. (Kaskey)
 UNID het strong here 10/7 and 10/13 from 1330-1415. No audio yet.
 ALASKA AFRS Adak first heard 9/16 w/rock and instrumental mx from 0730-0800. ID, time, and nx at 0800. Heard about half a dozen times since from 0700-0830, sometimes with a very good signal. (Kaskey, last 2)
 ALGERIA Algiers very good on car rx near a salt marsh; 3 bell IS sounded at least twice, then FF talk followed by EE folk mx, 2200-2205 10/9. (Connelly)
 JAPAN JOHK Sendai usually the dominant of a very in and out freq. Is NHK1. Several others heard here too but I have been ignoring this freq. (Kaskey)
 SOUTH KOREA HLKB Pusan noted a few times here the past month w/ KBS pgm // 715 and 880. Usually o/JOHK 1200-1400. (Kaskey)
 UNID het here 10/9 at 1220-1330, no audio. Prob USSR. (Kaskey)
 MEXICO XEEB Esperanza-hit 1010 at 0730 9/26 just in time for a good ID. Didn't stay long. (Kaskey)
 PORTUGAL? Porto Alto? heard from 0530-0630 and faded away by 0700. Spanish or Portuguese fair with man and woman talking between the records. One song had a chorus of "Ole, Ole" several times. Looped due east. (Poda) Most probably them-CH
 CHINA Shanghai heard 1310 9/28 w/CC and/or JJ talk. Could be CC lessons for JJ. M & YL talking then YL singing. (Bergman) Dominates WHO/KHVH from 1200-1400. Gets stronger the later it gets. Usually programs in JJ as is foreign service stn. (Kaskey)
 COLOMBIA Bogota R. Super de Bogota noted w/ID 9/25 at 0705 with WHO off on SM. (Seaver)
 HAWAII Honolulu KHVH is still here as of 10/12, ID'ed at 1245. My info says KHVH to 990, and KPOI to 1040. Correct? (Seaver) I think so. See last issue of IDX, I think the info is there-CH
 UNID BFO trace here 9/26 at 1206. DU DX'ers report Biak, Irian

1044 (continued) Jaya here rather than the listed 1116. (Seaver) Right again-CH
 1063 UNID BFO trace here 9/26 at 1120 and 1205. Probably Jayapura. Carrier is often fair but audio is almost always never heard. (Seaver)
 1210 CHILE Santiago 0539 10/10 ID'ed as La Compania de R. Universidad Tecnica, Santiago, Chile. Pop mx (three selections), then YL w/ what I believe was words of wisdom or a proverb. I tried to translate from the tape but it didn't make any sense. Audio was very strong at times but had deep fades. They also mentioned XQBC 96.5 FM. Sister station? (Bergman) This stn not sked at this time. Also, there is no FM in Chile (and precious little in South America) and the call prefix XQ is not being used by anybody to the best of my knowledge. Maybe someone with thorough knowledge of SS will listen to the tape for you. CH
 CHINA Yenbien is the CC here. Heard 9/26 at 0948 w/mx, no pips or anncs at 1000, killed by KGYN at 1030. This is Yanji province and is nominally Yanbian Korean Autonomous Prefecture listed w/ KK pgm to 1430 in WRTH. Heard in CC for the above reception. This dominates w/JOOR moved to 1180. (Seaver)
 GUATEMALA TGMX R. Rumbos tentatively 0505 10/10. The audio was very muddy, but surprising signal strength. (Bergman)
 1215 UNID BFO trace here 9/26 at 1150. This may be Samarinda. (Seaver)
 1225 UNID heard 9/27 at 2315 until 9/28 at 0305. Typical chanting and AA mx with strings and percussion. Male anncr in lengthy AA monologues. Carrier was interrupted momentarily several times; these were not fades. Interval signals not used on the hour or half hour. Anncr usually gave long talks before the hour and mx usually began just before the hour. Signal was 46 dB o/the noise on peaks w/approximately a 400 hz het. Similar programming was heard 8/8 from 0015-0115. None of this sounded like BBC but it could have been a new high power Moroccan. Other Moroccan stns checked simultaneously were not //. Or better still, it could have been the new Sudanese stn testing. (Bailey) I'll go for Sudan. They were testing at all hours late this summer and were reported with good signal strength around the globe-Europe to New Zealand. They are reportedly running only 800 kw due to problems with the power supply but will go to the full 1500 kw when that is resolved. The last note I saw on him in the foreign bulletins gave a s/off time of 2300 but unfortunately no s/on time. ID is R. Omdurman-CH
 1360 MEXICO Chihuahua, Chihuahua XEDI here 9/19 with local KGB off. Call ID and R. Mundo at 0853. (Seaver)
 1403 GUINEA Conakry very loud w/man in FF, killing 1400. Best early evening TA at 2244 10/8. (Connelly)
 1465 ECUADOR R. Nuevos Horizontes heard fair to good from 0350-0437 10/19. Several very clear taped ID's and a good jingle also. This is no flea powered Ecuadorian; he is detectable nightly, usually with poor to non-existent audio. (Hutton)
 1466 MONACO Monte Carlo fair w/man and woman in Romance language 2243 10/8. Good w/romantic muzak 2331 10/9. (Connelly)
 1484 MOROCCO Casablanca III heard 10/13 at 2331; AA dramatic pageant with much male and female hollering and dogs barking-even the dogs were unfathomable. It was // the Berbere network. 28 dB o/ noise w/5 hz SAH; listed as 1 kw on a graveyard channel. (Bailey) Top notch-CH
 1555 CAYMAN ISLANDS R. Cayman good w/British football scores at 2330 10/9. (Connelly) het noted during daytime hours on 1550 and 1560 domestics. Modulation noted usually around 2 PM local time. (Whaley)
 1586 WEST GERMANY Langenberg good but fadey w/uptempo GG female pop vocal 0515 10/8. Superloud w/march mx and applause, then show tunes at masher level wasting 1590 domestics at 0529 10/9. The opening was confined to top end at European sunrise just as exclusively as local sunset provides low band openings (1403 and 1466 the only high-banders at sunset). (Connelly)

Making you more knowledgeable were . . .
 Brock Whaley Sarasota, Fla. ??????????
 Bill Bailey Holden, Mass. 2 R390A's, 2 1200' phased Bev's
 Marc Bergman Oxnard, Ca. Sony CRF5100, NRC loop
 Mark Connelly W. Yarmouth, Mass R390A, 37 m wire
 Chuck Hutton Decatur, Ga. R390A, 1500' Beverage
 Don Kaskey San Fran, Ca. HQ140X, SM2
 Louis Poda Akron, Ohio R300, Guardian 7000, LW
 Konstantine Rychalsky Bridgeport, Conn. Sanyo AM/FM
 Randy Seaver Chula Vista, Ca. HQ180A, Sanserino

630 (Cont)	666 (Cont)	702 (Cont)	750 (Cont)	754 (Cont)	801 (Cont)	11
INDONESIA Ujung Pandang 100	SUDAN Kassala 200	COMORO IS Haboho 50	THAILAND N Ratchasima 50	USSR Medvedijegorsk 150	INDIA Cahuati 300	
PAKISTAN Lahore 100	JANISIA Chipata 50	KENYA Meru 100	UNITED ARAB EM Sadiyat 750	USSR UKR Odessa 150	Reva 300	
TURKEY Cukurova 300	CHINA Dehua 200	MALI Basako 100		MOZAMBIQUE Mapulala 250	JORDAN Amman 200	
USSR Khabarovsk 1000	INDIA Delhi 1000	MOROCCO Setra Aloun 140		SENEGAL Dakar 400	SRI LANKA Diyagama 50	
639	IPAN Ahwaz 100	AUSTRALIA Grafton, NSW 50		SUDAN Soba 200	810	
CZECHOSLOVAKIA Praha 1500	JAPAN Osaka 100	Orange, NSW 50		CHINA Fuzhou 100	ENGLAND Crowborough 500	
IRELAND Slane 100	SYRIA Damascus 100	CHINA Nanjing 50		INDIA Bophal 300	USSR Agninskoe 150	
SPAIN La Coruna 200	675	INDIA Ajmer 300		CONGO Dolise 50	Orsk 150	
KENYA Mombasa 50	FINLAND Helsinki 45	IRAN Rasht 400		MOZAMBIQUE Ma Phuto 50	Volgograd 150	
LESOTHO Lancers Gap 100	FRANCE Marseilles 600	OMAN Masirah Is. 1500		AUSTRALIA Sydney, NSW 50	YUGOSLAVIA Skopje 1000	
NIGERIA Kaduna 50	HOLLAND Roermond 120	PHILIPPINES Valenzuela 50		CHINA Changchun 100	MOZAMBIQUE Joao Belo 50	
SUDAN El Obeld 200	IRELAND Durganvan 100	SAUDI ARABIA Nuzlah 50		INDIA Ambikapur 300	UGANDA Bobi 100	
UGANDA Kibira Rdkla 50	USSR Eniseisk Mari 150	SRI LANKA Diyagama 50		Barner 300		
CHINA Beijing 150	USSR UKR Ujgorod 50	TURKEY Umraniye 150		Hyderabad 300	774	
CYPRUS Zyyi 500	Volotchisk 50	711		Port Blair 300	BULGARIA Sofia 150	
INDIA Kohima 100	FRANCE Rennes 300	FRANCE Rennes 300		Israel Tel Aviv 1200	Varna 150	
IRAN Bonab 400	ITALY Bologna 100	ITALY Bologna 100		KOREA Daegu 100	ITALY Milan 100	
KOREA Seoul 50	USSR Donetsk 150	USSR Donetsk 150		PHILIPPINES Valenzuela 50	SPAIN Valencia 100	
PAKISTAN Karachi 1000	EGYPT Abu Zabal 200	EGYPT Abu Zabal 200		TAHITI Papeete 100	SWEDEN Stockholm 600	
SRI LANKA Meho 50	LIBERIA Monrovia 100	LIBERIA Monrovia 100		VIETNAM Quinhon 50	USSR Voronej 150	
THAILAND Prachinburi 50	LIBYA Ghadames 50	LIBYA Ghadames 50		747	YUGOSLAVIA Split 50	
VIETNAM Quinhon 50	ISRAEL Bet Hilel 400	ISRAEL Bet Hilel 400		BULGARIA Petritch 500	EGYPT Abis 1000	
648	QATAR Doha 100	QATAR Doha 100		HOLLAND Flevoland 500	MOROCCO Agadir 50	
ALBANIA Rrogozinae 300	SRI LANKA Weeraketiya 50	MOROCCO Tarfaya 600		USSR Semipalatinsk 200	NIGERIA Benin 100	
ENGLAND Orfordness 150	VIETNAM Nhatrang 50	TANZANIA Kigoma 100		CAMEROUN Garoua 100	AUSTRALIA Melbourne, Vic 50	
FINLAND Tampere 100	684	CHINA Gonche 100		KENYA Nairobi 100	CHINA Wuhan 100	
USSR UKR Simferopol 150	GERMAN FED REP Hof 100	INDIA Allahbad 300		NAMIBIA Runtu 100	INDIA Jeypore 300	
BOTSWANA Orapa 50	SPAIN Sevilla 500	INDIA Sangli 300		SUDAN Port Sudan 100	Kohima 300	
GHANA Ajena 50	USSR Tselinograd 300	KOREA Sorae 500		CHINA Hualian 100	Simala 300	
LIBYA Tobruk 300	YUGOSLAVIA Beograd 2000	PAKISTAN Multan 100		Jiayi 100	SOUTH YEMEN Mukalla 50	
MOROCCO Missour 100	BENIN Cotonou 100	SRI LANKA Maho 50		Talbel Shi 100	783	
TANZANIA Nachingwea 100	ETHIOPIA Gore 200	THAILAND Sisaket 100		Argatala 300	GERMAN DEM REP Burg 1000	
CHINA Huizou 100	MAURITIUS Kurepipe 300	USSR Vladivostck 300		Jalsalmer 300	PORTUGAL Porto 100	
INDIA Mangalore 300	CHINA Haikou 200	YEMEN Mocha 300		Jalgaon 300	USSR Achkhabad 300	
NEPAL Dhankhuta 100	INDIA Bawani Patna 300	GERMAN FED REP Holzkirchen 150		Lucknow 300	USSR UKR Kiev 100	
SAUDI ARABIA Jeddah 2000	Koshikode 300	Langenberg 200		Trichur 300	YUGOSLAVIA Pazin 50	
SRI LANKA Ratnapura 50	IRAN Mashad 100	ITALY Bari 100		IRAN Bandar Shah 400	NIGERIA Lokoja 50	
THAILAND Phrae 50	NEPAL Pokhara 100	PORTUGAL Azurara Norte 100		JAPAN Sapporo 500	SUDAN Atbara 100	
USSR Iman 1500	SRI LANKA Welimada 50	SWEDEN Kiruna 600		KOREA Kwangju 100	CHINA Baoding 100	
657	693	CANARY IS Tejada 100		SYRIA Sarakeb 100	INDIA Dikaner 100	
GERMAN DEM REP Neubrandenburg 0400-1800 2000	ENGLAND Moorside Edge 300	NIGERIA Aba 50		756	Madras 300	
1800-0400 20	GERMAN DEM REP Berlin 250	TANZANIA Mwanza 50		FINLAND Kuopio 100	Nagpur 300	
ITALY Napoli 120	ITALY Milan 100	TUNISIA Sfax 200		GERMAN FED REP Braunschweig 500	SYRIA Tartus 600	
Venezia 300	USSR Ufa 150	AUSTRALIA Perth, WA 50		ITALY Capo Vaticano 100	792	
USSR Murmansk 150	Kemerovo 150	CHINA Beijing 150		PORTUGAL Lisbon 135	FRANCE Limoges 300	
MOROCCO El Aaiun 50	MADAGASCAR Tananarive 100	CYPRUS Zyyi 500		ROMANIA Lugoj 1000	GREECE Kavalla 500	
NIGERIA Ibadan 50	SUDAN Juba 200	INDIA Jaipur 300		USSR Kolpachevo 150	USSR Astrakhan 50	
TANZANIA Dar es Salaam 100	NIGERIA Makurdi 50	Madras 300		Urgenteh 150	Okha 50	
CHINA Zhengzhou 100	TANZANIA Morogoro 100	Sambalpur 300		50	GONGO Brazzaville 100	
INDIA Ahmedabad 300	ZAIRE Kinshasa 600	IFAN Taybad 400		600	KENYA Mombasa 100	
Calcutta 300	BANGLADESH Dacca 1000	MALAYSIA Kajang 200		ITALY Nanning 100	CHINA Nanning 100	
VIjayawada 300	CHINA Xian 100	USSR Yuzhno-Sakhalinsk 500		INDIA Poonaa 300	INDIA Baroda 300	
ISRAEL Tel Aviv 300	CYPRUS Nicosia 600	729		Fujian 50	Kanpur 300	
KOREA Chuncheon 50	INDIA Jubbulpore 300	FINLAND Tampere 45		Jinan 50	Panaaji Goa 300	
NEW ZEALAND Wellington 60	Leh 300	GREECE Athens 1000		Thangshan 50	JAPAN Osaka 300	
SAUDI ARABIA Guriat 500	Rajkot 300	IRELAND Killarney 100		Yichang Shi 50	PAKISTAN Karachi 100	
TURKEY Urla** 600	INDONESIA Palembang 50	USSR Bratsk 150		Yichun 50	USSR UKR Kharkov 150	
UNITED ARAB EM Al Ain 100	JAPAN Tokyo 500	MOROCCO Bouarfa 100		Yinchuan 50	YUGOSLAVIA Novi Sad 50	
** Protested by Israel	SRI LANKA Amparai 50	NIGERIA Kano 100		Zhanjiang 50	SUDAN Wadi Halfa 50	
666	VIETNAM Ban Me Thuot 55	SUDAN Zallindiei 200		INDIA Itanagar 300	CHINA Wuhan 300	
GERMAN FED REP Boden 300	702	UGANDA Butebo 100		Jodhpur 300	INDIA Bophal 300	
GREECE Trikala 250	LIEMING 600	AUSTRALIA Adelaide, SA 50		IRAQ Salman Park 300	Suratgarh 300	
ICELAND Hoefn 100	CZECH. Banske Bystrika 400	CHINA Jian Shi 100		KOREA Seoul 50	VIjayawada 300	
PORTUGAL Lisbon 135	Presov 400	INDIA Surat 300		PAKISTAN Quetta 150	IRAN Shiraz 400	
USSR Barnaul 150	ITALY Grosseto 50	Trivandrum 300		SUDAN N Ratchasima 200	KOREA Seoul 50	
Dudinka 150	MONACO Monte Carlo 1200	JAPAN Nagoya 50		SOUTH YEMEN Hiswa 50	LEBANON Hamat 600	
ALGERIA Tindouf 100	USSR Duchanbe 50	NEW CALEDONIA Noumea 100		765	THAILAND Sakon Nakhon 50	
GUINEA Nzerekore 100	Kirensk 50	SRI LANKA Ratnapura 50		IRELAND Enniscorthy 100	TURKEY Edirne 300	
NIGERIA Eku 100				SWITZERLAND Sottens 300		

846					
ITALY Roma	2000	882 (Cont)		918 (Cont)	
USSR Moscow	60	USSR Narin	500	KOREA Yeoncheon	50
Tselinograd	50	YUGOSLAVIA Titograd	300	PHILIPPINES Malolos	50
KENYA Kisumu	100	IVORY COAST Abidjan	100	SRI LANKA Diyagama	50
NIGERIA Bauchi	50	KENYA Kisumu	100	927	
BANGLADESH Rajshahi	100	NAMIBIA Ohopoho	50	BELGIUM Wavre	600
CHINA Nishou	100	NIGERIA Kaduna	50	GREECE Zakynthos	50
INDIA Ahmedabad	300	ZAMBIA Lusaka	50	USSR Nebit Dag	50
Allahabad	300	CHINA Fuzhou	100	Taichet	50
Madras	300	INDIA Imphal	300	GUINEA Kerouane	100
PHILIPPINES Malolos	50	Sangli	300	KENYA Mombasa	100
TURKEY Sivas	300	Malaysia Kajang	200	SUDAN Malakal	250
955		SAUDI ARABIA Dammam	100	CHINA Dejian	50
GERMAN FED REP Berlin	100	991		Luodian	50
ROMANIA ? ?	1500	AUSTRIA Linz	200	INDIA Almora	300
SPAIN Murcia	250	IRELAND Buncrana	100	Jabalpur	300
USSR Tselinobinsk	150	USSR Lugorod	150	Tura	300
		Tiuseen	100	Vizagapatam	300
ETHIOPIA Harrar	150	ALGERIA Algiers	200	INDONESIA Pakanbaru	50
IVORY COAST Bouafle	200	ETHIOPIA Makale	100	PAKISTAN Khairpur	100
NIGERIA Port Harcourt	40	GUINEA Mamou	100	SAUDI ARABIA ? ? ?	200
SUDAN Soba	500	LESOTHO Lancers Gap	100	TURKEY Izair	500
ZAMBIA Chipata	50	SUDAN Babanusa	100	936	
CHINA Lhasa	100	TANZANIA Dodona	100	GERMAN FED REP Bremen	100
CYPRUS Cape Greco	30	CHINA Zhongwei	100	USSR Ft. Chevchenko	150
INDIA Alleppey	50	INDIA Darbanga	300	USSR UKR Lvov	500
Aurangabad	300	Indore	300	RENT Parakou	100
Shahapur	300	Jagdialpur	300	EGYPT Cairo	100
INDONESIA Medan	100	Rampur	300	MOROCCO Agadir	600
EGYPT Naggo	50	Tinnevely	250	MOZAMBIQUE Beira	250
PAKISTAN Quetta	100	KOREA Pusan	200	CHINA Hefei	100
SAUDI ARABIA Dammam	1000	THAILAND Nakhon Pathom	500	Lhasa	100
SRI LANKA Amparai	50	TURKEY Antalya	600	INDIA Dharwar	300
SYRIA Damascus	500	900		Miruchirapalli	300
954		ITALY Milan	2000	Udaipur	300
BULGARIA Plovdiv	150	USSR Alaguz	50	QATAR Al Khaisah	100
FRANCE Paris	300	Iochkar Ola	50	THAILAND Nakhon Sawan	100
		Kuliab	50	945	
EGYPT Giza	500	KENYA Meru	100	FRANCE Toulouse	300
MOROCCO Ksar El Souk	600	CHINA Guilang	100	USSR Rostov na Donu	300
SUDAN LODONG Kenesa	50	INDIA Silchar	300	ETHIOPIA Adigrig	100
CHINA Chu Xian	50	IRAN Teheran	50	NIGERIA Sokoto	50
Huainan	50	KOREA Seoul	50	SUDAN Abu Hamed	100
Tongling	50	SAUDI ARABIA Guriat	1000	TANZANIA Johns Corner	50
INDIA Shillong	300	959		CHINA Urumqi Shi	100
Udaipur	300	ENGLAND Brookmans Park	140	INDIA Agartala	300
KOREA Gangneung	100	Stageshaw	100	Aurangabad	300
SAUDI ARABIA Dammam	500	FERLAND Jyvaskyla	100	Kavarathy	300
Jeddah	500	GERMAN FED REP Munich	200	MALAYSIA Johore Bahru	50
SRI LANKA Jaffna	50	ROMANIA Cluj	50	Tronoh	100
USSR KAZAKH Karaganda	500	ALGERIA Tamanraoust	100	SAUDI ARABIA Guriat	1000
971		MOROCCO Sidi Bennour	100	954	
GERMAN FED REP Frankfurt	150	SUDAN Yambio	50	CZECHOSLOVAKIA Brno	750
USSR Kinok	150	CHINA Wencheng	100	SPAIN Valencia	20
USSR MOLDAVIA Kishinev	500	INDIA Chindwara	300	USSR Aralsk	150
EGYPT Abu Zabal	200	THAILAND Surin	50	KENYA Kisumu	100
ETHIOPIA Adis Ababa	150	USSR Iman	50	CHINA Tianjin	50
MOZAMBIQUE Beira	50	YEMEN Taiz	500	INDIA Dharmasala	300
SUDAN Buram	250	SPAIN Oviedo	20	Najibabad	200
BANGLADESH Chittagong	100	USSR Mezen	100	Pondicherry	300
CHINA Fujin	100	YUGOSLAVIA ? ?	600	ISRAEL Haifa	100
INDIA Almora	300	960		JAPAN Tokyo	100
Bhagalpur	300	MOZAMBIQUE Ma Phuto	100	QATAR Al Arish	750
Coimbatore	300	NIGERIA Makurdi	50	SYRIA Deir Ez Zor	60
Jullundur	300	CHINA Weifang	100	TURKEY Trabzon	300
JAPAN Kumamoto	500	CYPRUS Paphos	50	963	
SRI LANKA Diyagama	50	INDIA Bangalore	300	BULGARIA Sofia	150
VIETNAM Saigon	100	Dibrugarh	300	FINLAND Pori	600
882		Suratgarh	300	USSR Ulan Ude	50
ENGLAND Washford	150	964		YUGOSLAVIA Beograd	200
GERMAN DEM REP Wachen-	250				

MOZAMBIQUE Tete	100	999 (Cont)		1035 (Cont)	
NAMIBIA Otjiwarongo	50	MAURITANIA Villa Cisneros	100	CHINA Yumen Shi	50
SUDAN Soba	200	UGANDA Kasale	100	INDIA Rewa	300
SOMALIA Mogadiscio	150	CHINA Hengchun	100	Tiruchirapalli	300
TUNISIA Tunis	200	Urumqi Shi	100	PAKISTAN Multan	120
		Xinzou	100	YEMEN Sanaa	1000
CHINA Chifeng Shi	50	INDIA Adilabad	300	1044	
Yingkou Shi	100	INDONESIA Djakarta	300	GERMAN DEM REP Dresden	1000
CYPRUS Nicosia	600	YEMEN Hodeidah	500	CHINA Thessalonika	150
INDIA Gwalior	300	1058		GUINEA Reyla	50
Mangalore	300	CHINA Kerkyra	50	KENYA Voi (?)	100
Tawang	200	HOLLAND Flevoland	300	MOROCCO Sebba-Aioun	300
972		USSR Mosyr	50	MOZAMBIQUE Beira	100
GERMAN FED REP Hamburg	600	Sovjalatinsk	150	AFGHANISTAN Herat	100
USSR UKR Nikolaev	500	Elonia	50	CHINA Changzhou	300
BOTSWANA Bebele	50	Uchatchi	50	CYPRUS Vasiliko	100
CAMEROUN Bertoua	100	TUGOSLAVIA Aleksinac	200	INDIA Bombay	300
ETHIOPIA Bahar Dar	100	MOROCCO Ksar El Souk	50	Dhanbad	300
GUINEA Boke	50	UPPER VOLTA Bobo-Dioulasso	100	Rampur	300
LIBYA Beni Ulid	100	ZALRE Bandomdu	50	TURKEY Kahramanmaraş	50
Hun	100	CHINA Fu Xian	100	USSR GEORGIA Tbilisi	200
Mursou	100	INDIA Calcutta	200	1053	
MOROCCO Marrakech	50	Kanpur	300	ENGLAND Droitwich	150
CHINA Anyang Shi	50	Kavarathy	300	Start Point	100
Nanyang Shi	50	JAPAN Osaka	50	ROMANIA Iasi	1000
Xinyang Shi	50	KOREA Sogho	50	USSR Kurgan	50
INDIA Cuttack	300	PAKISTAN Hyderabad	120	Svobodnyi	50
Darbhanga	300	PHILIPPINES Zamboanga C.	100	LIBYA Tripoli	50
Hissar	300	YEMEN Taiz	60	MOROCCO Tangier	600
KOREA Kimjae	1500	1047		NIGERIA Maiduguri	50
MALAYSIA Kuala Krai	50	GERMAN FED REP Wolfshelm	600	CHINA Qibei	50
SRI LANKA Amparai	50	TURKEY Istanbul	1200	INDIA Leh	100
THAILAND Udon Thani	50	USSR Rbtsovak	50	JAPAN Nagoya	50
UNITED ARAB EM Fujairah	100	CHINA Chengdeun	100	1048	
981		Bei Iian	100	GERMAN Kalundborg	250
BULGARIA Varna	150	INDIA Aljal	300	PORTUGAL Azurara	100
CHINA Athens	200	Chindwara	300	USSR Andijan	50
EGYPT F. Bahigalaan	600	INDONESIA Madurai	300	Iochkar Ola	50
USSR Krasnodarsk	100	JAPAN Fukuoka	50	EGYPT Abu Zabal	100
ALGERIA Algiers	400	MALAYSIA Semagat	100	ETHIOPIA Neghelli	100
KENYA Voi (?)	100	1026		GUINEA Conakry**	100
SENEGAL Kedougou	50	AUSTRIA Graz-Dobl	300	CHINA Guangzhou	100
CHINA Fuzhou	100	Linz-Kronstorf	300	INDIA Pasighat	300
CYPRUS Nicosia	100	SPAIN Vigo	10	KOREA Cheongju	50
INDIA Baroda	300	USSR Tomsk	20	TURKEY Diyarbakir	300
Coalpara	300	MOZAMBIQUE Ferry	50	**Suspect this should be	
Telicon	300	NIGERIA Hadija	50	Guinea-Bissau.	
PAKISTAN Mir Pur Khas	100	SUDAN Pibor Post	50	1071	
THAILAND Taia	50	CHINA Jianhe	50	FRANCE Brest	100
YEMEN Sanaa	600	Zhenfeng	50	Lille	100
990		INDIA Dharmasala	300	USSR Ustkaenogorsk	100
FINLAND Lahti	100	Mercara	300	USSR LATVIA Riga	60
Rovaniemi	100	Rourkela	300	YUGOSLAVIA Mostar	50
GERMAN FED REP Berlin	300	IRAN Tabris	100	SUDAN Wau	200
ETHIOPIA Addis Ababa	50	ISRAEL Tel Aviv	200	CHINA Gui Xian	100
NIGERIA Gombe	50	THAILAND Phitsanulok	50	INDIA Rajkot	1000
TANZANIA Songea	100	1035		SYRIA Tartus	60
INDIA Jammu	300	PORTUGAL Lisbon	120	1080	
Rohtak	300	USSR ESTONIA Tallinn	500	POLAND Katowice	1500
Udipi	300	EGYPT Matruh	1000	USSR Kyzyl	500
IRAN Shiraz	400	TANZANIA Kibaha	100	YUGOSLAVIA Koper	200
LEBANON Amchit	100	CHINA Gaixiong Shi	50	KENYA Mombasa	100
MONGOLIA Ulan Bator	60	Huehot	50	LIBYA Ajedabia	40
SINGAPORE	50	Nanchang Shi	50	NIGERIA Minna	50
TURKEY Yerkesik	100	Taiyuan	50	CHINA Haikou	200
SAUDI ARABIA Guriat	500	Taizhong Shi	50	INDIA Madurai	300
992		Weifang	50	IRAN Abadan	600
ITALY Torino	200				
MALTA Delimara	600				
USSR MOLDAVIA Kishinev	500				
CAMEROUN Yaounde	100				

14	1080 (Cont)	1174 (Cont)	1188 (Cont)	1242	1305 (Cont)	1392 (Cont)	15
	PAKISTAN Lahore 50	JAPAN Tokyo 100	CHINA Kunming 300	FINLAND Fuunala 45	ALGERIA Constantine 40	CHINA Baoding 50	30
	SRI LANKA Kotugoda 100	KOREA Limpo 100	INDIA Bombay 300	FRANCE Marseille 300	SENEGAL Dakar 50	Hualian 50	50
	1089	KUWAIT Sulaiabiya 750	INDIA Simla 300	USSR UKR Kiev 150	CHINA Fu Xian 50	Taipei Shi 50	50
	ALBANIA Durres 150	PAKISTAN Khozdar 100	IRAN Teheran 1000	BURUNDI Bujumbura 100	Gerze 50	Zhengzhou 50	50
	ENGLAND Orfordness 500	** Should be Zagreb, I think.	KOREA Incheon 50	CHINA Jiayin 100	Guiyang 50	Zhongwei 50	300
	USSR Krasnodar 300	1183	SOUTH YEMEN Hiswa 200	CHINA Shenyang 100	Nanning 50	INDIA Bhadravati 50	
	CENTRAL AFRICAN EMP Beuar 100	ITALY Capo Vaticano 65	1197	INDIA Varanasi 300	Qabdo 50	1368	
	CONGROS Mahono 50	IRELAND Westport 50	GERMAN FED REP Muehich 300	IRAN Jazireh Serri 400	Sanning 50	ITALY Milan 20	
	CHINA Shenyang 100	USSR Kaliningrad 150	USSR Minsk 50	JAPAN Tokyo 100	Shanghai 50	Napoli 20	
	1098	YUGOSLAVIA Nova Gradiska 100	GUINEA Mali Town 50	THAILAND Surat Thani 100	Tangshan 50	Venezia 25	
	CZECH Bratislava 1500	ALGERIA Les Trembles 40	CHINA Chuxiong 100	1251	Xianghuang Qi 50	POLAND Biala Podlaska 60	
	ITALY Bologna 50	NIGERIA Warri 50	INDIA Chatarpur 300	HUNGARY Balatonszabadi 500	Yanchi 50	Krakow 60	
	ALGERIA Ouargla 40	CHINA Jingdong 50	IRAQ Arbil 50	LIBYA Tripoli 500	INDIA Parbhani 300	Lidzbark 60	
	CHINA Baotou 50	Puer 50	1206	CHINA Xining 100	SRI LANKA Kotucoda 100	Slupsk 60	
	INDIA Rohtak 300	Tengchong 50	FRANCE Bordeaux 300	UNITED ARAB EM Dubai 50	1314	Wielun 60	
	INDIA Zabol 200	Whenshan 50	POLAND Wroclaw 200	USSR Vladivostok 1000	ITALY Pisa 50	Zielona Cora 60	
	USSR KAZAKH Alma Ata 150	INDIA Ratnagiri 300	KENYA Nakuru 40	1260	NORWAY Stavanger 1200	MOROCCO Beninellal 50	
	1107	KOREA Jeju 100	MOROCCO Tarfaya 100	DOEGANESE IS Rhodes 500	ROMANIA Costanza 50	SENEGAL St. Louis 40	
	GERMAN FED REP Munich 40	PHILIPPINES Poro 1000	MOZAMBIQUE Inhambane 50	POLAND Szczecin 160	SPAIN Valencia 25	UPPER VOLTA Tenkodoco 30	
	SPAIN Madrid 25	TURKEY Adana 100	AFGHANISTAN Mazar I Sharif 500	USSR Ustkaenogorsk 100	USSR UKR Stavropol 500	GHANA Linhe 50	
	USSR Moghilev 100	Manavgat 100	CHINA Kunming 300	VATICAN Santa Maria Galera 50	YUGOSLAVIA Skopje 100	INDIA Delhi 300	
	USSR LITHUANIA Kaunas 150	Mardin 100	INDIA Bhawani Patna 300	1269	GUINEA Dabola 50	IRAN Bandarfarahnaz 200	
	YUGOSLAVIA Novi Sad 150	USSR TADZHIK Dushanbe 150	INDIA Tezpur 300	GERMAN FED REP Neumuenster 600	CHINA Erenhot 100	SINGAPORE 50	
	CAMEROUN Douala 100	1152	Tezpur 300	ROMANIANE Saba 50	Yiwu 100	THAILAND Nan 30	
	EGYPT Batra 1000	ROMANIA Cluj 950	Udipl 300	ROMANIA Windhoek 100	JAPAN Osaka 50	USSR Novosibirsk 500	
	KENYA Meru 100	NIGERIA Akure 50	ISRAEL Haifa 100	CHINA Fuxin Shi 100	UNITED ARAB EM Sadiyat 750	1377	
	AFGHANISTAN Kabul 1000	SOMALIA Bosaso 50	JAPAN Osaka 50	INDIA Ambikapur 300	1321	FRANCE Lille 300	
	CHINA Hungjiang 100	CHINA Changhai Shi 50	YEMEN Sanaa 50	PAKISTAN Khairpur 100	GERMAN DEM REP Nauen 1000	USSR UKR Lutsk 50	
	INDIA Dhanbad 300	Xupu 50	1315	THAILAND Chiang Rai 50	USSR Bukhara 100	Tchernovtsk 30	
	Dulbarga 300	INDIA Mysore 300	ALBANIA Lushnje 500	GERMAN DEM REP Neumuenster 600	GUINEA Gueckedou 50	GHANA Kamas 50	
	Palchat 300	IRAN Tabriz 300	ENGLAND Washford 60	CYPRUS Kerdalackcha 100	MOROCCO Alhoceima 40	GUINEA Cuckedou 50	
	1116	UNITED ARAB EM Al Nakhil 100	MALTA Delimara 600	SWAZILAND Sandlane 100	TANZANIA Mwanza 50	MOROCCO Alhoceima 40	
	GREECE Ermoupolis 300	USSR Omsk 100	USSR Omsk 100	CHINA Dahuu 200	CHINA Dehua 200	INDIA Hyderabad 300	
	ITALY Bari 250	BULGARIA Biala Slatina 150	BOTSWANA Sebele 50	KUWAIT 100	ALGERIA Constantine 40	MONGOLIA Sain Shanda 75	
	USSR Kasty Maaalik 50	FINLAND Vaasa 100	NIGER Tahoua 300	TURKEY Oguzelli 50	CHINA Changchun 100	1386	
	BURUNDI Gitega 300	FRANCE Strasbourg 300	TANZANIA Arusha 50	UNITED ARAB EM Kor Fakan? 50	Lhasa 100	GREECE Athens 300	
	IVORY COAST Korhogo 100	EGYPT Tanta 200	CHINA Huizhou 50	1378	CYPRUS Zyyi 200	LIECHTENSTEIN Vaduz 500	
	MOROCCO Ouarzazate 100	ZAIRE Matadi 200	Jian Shi 50	FINLAND Turku 45	ITALY Roma 300	USSR LITHUANIA Kaunas 1000	
	CHINA Antu 100	CHINA Nangshong Shi 50	Jiayin 50	FRANCE Strasbourg 300	CHINA Luoyang 50	GUINEA Labe 50	
	Horqun Yq Qi 100	INDIA Tezpur 300	Jinan 50	USSR Ulanovsk 100	IRAN Teheran 100	CHINA Linhe 50	
	Mei Xian 100	USSR TADZHIK Dushanbe 1000	Wuhan 50	AFGHANISTAN Kabul 100	JAPAN Nagoya 100	IRAN Ahwaz 400	
	INDIA Mathura 300	1170	Zangjiang 50	CHINA Shijiazhuang 100	1341	1392	
	Strinigar 200	USSR Lutsk 500 or 1000	THAILAND Surat Thani 50	INDIA Lucknow 300	HUNGARY Lakihegy 300	1332	
	Tura 300	YEMEN Hiswa 200	1224	IRAN Kermanshah 100	NORTH IRELAND Lisnagarvey 250	ITALY Roma 300	
	IRAN Bandar Lenguh 125	BULGARIA Vidin 1000	BULGARIA Vidin 1000	JAPAN Fukuoka 50	1336	GREECE Athens 300	
	SRI LANKA Perkara 400	SPAIN Zaragoza 25	SPAIN Zaragoza 25	1287	1332	LIECHTENSTEIN Vaduz 500	
	1125	SWEDEN Oestersund 600	SWEDEN Oestersund 600	CZECH Ceskoslovo 1500	ITALY Roma 300	USSR LITHUANIA Kaunas 1000	
	BELGIUM Houdeng 150	USSR Djabul 150	USSR Djabul 150	CHINA Yinchuan 100	CHINA Luoyang 50	GUINEA Labe 50	
	BULGARIA Stara Zagora 500	MOZAMBIQUE Mocimboa 50	MOZAMBIQUE Mocimboa 50	INDIA Chatarpur 300	IRAN Teheran 100	CHINA Linhe 50	
	USSR Vyborz 150	NAMIBIA Keetmanshoop 50	NAMIBIA Keetmanshoop 50	INDONESIA Palembang 50	JAPAN Nagoya 100	IRAN Ahwaz 400	
	YUGOSLAVIA Pazin 200	CHINA Chengdu 100	CHINA Chengdu 100	ISRAEL Tel Aviv 100	1341	1386	
	LIBYA EL Belda 300	KOREA Xinzhu 100	KOREA Xinzhu 100	JAPAN Sapporo 50	HUNGARY Lakihegy 300	GREECE Athens 300	
	NIGER Niamey 100	MALAYSIA Tronoh 100	MALAYSIA Tronoh 100	PHILIPPINES San Fernando 200	NORTH IRELAND Lisnagarvey 250	LIECHTENSTEIN Vaduz 500	
	CHINA Fangshan 100	1171	1171	1296	1350	USSR LITHUANIA Kaunas 1000	
	CYPRUS Cape Greco 250	GREECE Thessalonika 100	GREECE Thessalonika 100	ENGLAND Orfordness 500	FRANCE Nancy 100	GUINEA Labe 50	
	INDIA Kozhikode 300	MALTA Delimara 600	MALTA Delimara 600	GIBRALTAR 50	Nice 600	PAPUA/NEW GUINEA Lae 100	
	Tawang 300	ROMANIA Bacau 200	CZECHOSLOVAKIA Praha 750	GUINEA Tambo 50	MAURITANIA Nouakchott 50	FINLAND Helsinki 300	
	SRI LANKA Perkara 400	SWEDEN Skaane 1200	USSR Dargan Ata 50	SUDAN Sennar 1500	CHINA Nanchang Shi 100	FRANCE Rouen 100	
	THAILAND Chandaburi 50	CAMEROUN Buea 100	KENYA Mombasa 50	AFGHANISTAN Kandahar 1000	MONGOLIA Dalantszadagan 150	GREECE Kosotini 50	
	1174	MOZAMBIQUE Quelimane 50	MOROCCO Tangier 200	CHINA Kunming 300	CHINA Muren 150	GUINEA Kipe 400	
	SPAIN Sevilla 25	CHINA Guyuan 100	CHINA Changsha Shi 100	INDIA Palghat 300	USSR ARMENIA Yerevan 500	NIGERIA Ogoja 50	
	USSR Troitskoe 50	JAPAN Osaka 50	Urumsqi Shi 100	SAUDI ARABIA Medinah 50	1352	CHINA Yichang Shi 100	
	YUGOSLAVIA Beograd ** 1000	RYUKYUS Okinawa 1000	CYPRUS Cape Greco 600	THAILAND Pattani 50	ALBANIA Tirana 50	IRAN Rasht 200	
	MOZAMBIQUE Nampula 50	USSR Petropavlovsk 150	INDONESIA Pontianak 50	USSR TADZHIK Dushanbe 1000	GERMAN DEM REP Berlin 250	THAILAND Yala 50	
	CHINA Linhai 50	1189	QATAR Al Kharish 100	1305	SPAIN Figueras 1000	1413	
	INDIA Calcutta 1000	BELGIUM Kortrijk 150	1193	BELGIUM Aye Marche 50	CHAD Abecher 100	SPAIN Huelva 100	
	INDONESIA Banda Jarmasin 50	HUNGARY Szolnok 1000	1193	POLAND Rzeszow 300	IVORY COAST Abidjan 50	USSR UKR Volgograd 50	
				USSR Tomsk 150		YUGOSLAVIA Pristina 1000	
						TANZANIA Arusha 50	

1411 (Cont)		1476 (Cont)	
CHINA Urumqi	100	INDONESIA Surakarta	50
JAPAN Fukuoka	50	MALAYSIA SABAH Tuaran	600
OMAN Masirah Is.	1500	THAILAND Lamphur	100
1422		UNITED ARAB EM Dubai	600
GERMAN FED REP Saarbrue-		USSR Vladivostok	100
cken	1200	1485	
USSR Valmiera	50	CHINA Huizhou	100
		Zhanjiang	100
ALGERIA Algiers	40	INDIA Nagpur	2000
NIGERIA Bonadi	50	IRAN Bandar Abbas	100
		KOREA Jeju	250
CHINA Jinchou	50	THAILAND N. Sithahmarat	50
IRAN Kermanshah	100	1575	
SINGAPORE	350	GERMAN DEM REP Neubran-	
TURKEY Ordu	50	denburg	500
		CHINA Sanning	100
		Tungliac Shi	100
1431		1503	
DENMARK Skive	70	SPAIN Bilbao	25
GERMAN DEM REP Dresden	250	POLAND Stargrad Szcze	1000
PORTUGAL Montemorvelho	100		
USSR UKR Krivoi Rog	500	SOMALIA Kismaio	50
		CHINA Hangzhou	100
AFARS & ISSAS Djibouti	600	IRAN Bushehr	100
MALI Banako	100	NEPAL Kathmandu	50
1440		1510	
LUZEMBOURG Marnach	1200	BELGIUM Antwerp	600
USSR Uralak	50	GREECE Chania	50
YUGOSLAVIA Kraljevo	100	USSR Aktiubinsk	100
CENTRAL AFRICAN EMP Bangui	100	YUGOSLAVIA Pristina	100
NIGERIA Jalingo	50	TANZANIA Nigoma	100
CHINA Liuzhou	50	UPPER VOLTA Leo	50
JAPAN Sapporo	50	CHINA Taizhong Shi	100
SAUDI ARABIA Damman	1600	SAUDI ARABIA Jeddah	1200
TURKEY Carsamba	100	1521	
1449		CZECHOSLOVAKIA Kocise	600
ITALY Golfo Bonatti	300	CONGO Pointe Noire	100
USSR MOLDAVIA Kishinev	50	MAURITANIA Nouakchott	50
		TUNISIA Djedeida	100
CAMEROON Bafoussam	100	CHINA Urumqi Shi	500
IRAN Bandar Shah	400	IRAN Bandarfarahnaz	100
SAUDI ARABIA Jeddah	500	SAUDI ARABIA Duba	2000
1458		1530	
ALBANIA Lushnje	500	USSR Amdyr	50
ENGLAND London	50	VATICAN S. M. di Galeria	450
ROMANIA Constanta	100	BAIN VERON IS Praia	100
ETHIOPIA Deasala	150	BRANCA Giteama	50
GUINEA Siguir	40	CHINA Xianghuang Qi	100
MALI Gao	200	SAUDI ARABIA Gizan	1000
MATOTTE	100	1539	
CHINA Huehot	100	GERMAN FED REP Mainzlin-	
ISRAEL Ezyon	50	gen	700
PHILIPPINES Iba, Zambales	250	1467	
		CHINA Dehua	200
		INDIA Panaji Goa	300
		SAUDI ARABIA Medinah	50
		UNITED ARAB EM Sharjah	50
		1548	
		USSR UKR Vinnitsa	1000
		AUSTRALIA Emerald, Qsld.	50
		CHINA Rushan	100
		KUWAIT	100
		SRI LANKA Perikara	400
		1557	
		FRANCE Nice	300
		MALTA Cyclops	600
		USSR LITHUANIA Kaunas	75
		YUGOSLAVIA Osijek	50
		CHINA Fuzhou	100
		INDIA Gt. Nicobar	1000
		TURKEY Antakya	50
		CHINA Wencheng	200

1476 (Cont)	1566
INDONESIA Surakarta	50
MALAYSIA SABAH Tuaran	600
THAILAND Lamphur	100
UNITED ARAB EM Dubai	600
USSR Vladivostok	100
1485	CHINA Huizhou
GRAVEYARD Max. Power 2 kw.	Zhanjiang
1494	INDIA Nagpur
FRANCE Bastia	50
GREECE Rhodes	50
USSR Leningrad	1000
1503	GERMAN DEM REP Neubran-
SPAIN Bilbao	25
POLAND Stargrad Szcze	1000
SOMALIA Kismaio	50
CHINA Hangzhou	100
IRAN Bushehr	100
NEPAL Kathmandu	50
1510	ITALY Bari
BELGIUM Antwerp	600
GREECE Chania	50
USSR Aktiubinsk	100
YUGOSLAVIA Pristina	100
TANZANIA Nigoma	100
UPPER VOLTA Leo	50
CHINA Taizhong Shi	100
SAUDI ARABIA Jeddah	1200
1521	CHINA Urumqi Shi
CZECHOSLOVAKIA Kocise	600
CONGO Pointe Noire	100
MAURITANIA Nouakchott	50
TUNISIA Djedeida	100
CHINA Urumqi Shi	500
IRAN Bandarfarahnaz	100
SAUDI ARABIA Duba	2000
1530	USSR Amdyr
USSR Amdyr	50
VATICAN S. M. di Galeria	450
BAIN VERON IS Praia	100
BRANCA Giteama	50
CHINA Xianghuang Qi	100
SAUDI ARABIA Gizan	1000
1539	GERMAN FED REP Mainzlin-
GERMAN FED REP Mainzlin-	gen
gen	700
1548	USSR UKR Vinnitsa
USSR UKR Vinnitsa	1000
AUSTRALIA Emerald, Qsld.	50
CHINA Rushan	100
KUWAIT	100
SRI LANKA Perikara	400
1557	FRANCE Nice
FRANCE Nice	300
MALTA Cyclops	600
USSR LITHUANIA Kaunas	75
YUGOSLAVIA Osijek	50
CHINA Fuzhou	100
INDIA Gt. Nicobar	1000
TURKEY Antakya	50

1602
GRAVEYARD Max. Power 1 kw.
!!!!!!!!!!!!!!!!!!!!!!!!!!!!
That is it. Some mighty interesting stations on this list. Should be some good DX once these stations get on the air. I don't think this list is complete - there are some stations on the air at the moment that are not included such as the high powered Iraq on 1035 and many Russians.

If anyone has any corrections, additions, etc. send the info to me or Chuck. If there is enough new info, we can do an updater of sorts. Hopefully all this info will be in the new WRTH when it comes out.

Alan Merriman
P.O. Box 6
Fairfax, Virginia 22030

Since I've got a little bit of room left I'll make it a mini Musing. Enjoyed the convention - a good job done by Lincoln. DX since I've gotten back has been rotten - much noise both from thunderstorms and my local line noise. Few TA's making it and the ones that do are just the very common ones. We should have seen a couple of good openings by now, but nothing noted here. The Ham net is apparently operating again on 3850 khz - I haven't checked in yet. This is an excellent source of last minute info for those who want to listen in. 73 - DX

MUSINGS

ERNEST R. COOPER
5 ANTHONY STREET
PROVINCETOWN, MASS. 02657

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

HARRY J. HAYES - Star Route - Box 226c - Gouldsboro, PA - 18424
(EDT used). Help! Help! Who is the SS so prominent on 1310 during the last days in September? The station was heard here very strong with deep fading caused mostly by its fight with WJLK in NJ, on 9/28 from 8:45pm to 7:45 when it just disappeared. I have several minutes of the reception on tape & thought I heard Mexico mentioned & also could have heard "Alegria", but this is speculation as very few IDs were heard, and as Murphy's Law would have it, the few IDs faded. SS also heard on 9/30 w/weak 4 8:55pm. Now the first of the new season DX. Only six new ones added for Sept. 9/3 - 7:26pm, WWER-1350 w/c/w from flood-ravaged Mindber, PA, verie received. 9/4, tentatives, WOTT-1410 & WBA2-1410, both NY, 8:55pm. 7:15, WAGE-1290 VA added while looking for elusive WJLN-PA. 7:25, WRIE-1330 PA dominating w/T-50. 7:45, WSEM-1000 OH really potent signal. Catch this one, people, when you send for veries. Don't use the address in NRC Log. P.O. returned my verie request. I am going to use: Christian Broadcasting Corp., 12721 Abbey Road - North Royalton, OH, as this was address noted on s/off. 9/6- WTXU-1290 DE s/off, nothing new about this reception, but I have sent for verie and no response yet. 9/7- 7:20pm, WQTN-1570 Latrobe, PA, verie received today, 10/1. 7:29, WTRA-1480, Latrobe, I finally got this one, much weaker than WQTN, w/s/off, c/w format. 9/7- 9:16pm, CET-540 Nfld. tentative here, EEC station heard, also WX report indicated this. 9/12- HJLQ-1520 Colomola, w/WKRW off, sounds good for 1 kw! Heard 3 1:55am. 2:10, UNID-1360 w/FF, WDRC off. 2:23, WCHL-1360, KC weakly holding the channel in DRG's absence. UNID FF on 1330 which is // to both 1230 & 1340, a satellite of CHVD? 7pm, WOTT-1410 NY w/ID, finally got 'in @ 7:15. WCHN-970 KY s/off 7:30, WKES-1460 OH cutting through WCHB W/OZ mess. 9/14- WAFE-690 FL testing day equipment @ 1:15-1:37. 9/15- WIRY-1340 NY really dominating channel for past couple of nights, trouble w/RR? 1:59, WLVG-1340 ME tentative w/WIRY w/s/off. 9/21- 2:03am, WIRE-1430 IN heard w/c/w on RS w/a weak CKFH. 9/24- @ early .o net WNYN-900 OH once & for all w/nice ID on tape @ 6:14am. 6:30, WLSI-900 KY several IDs, fair, also a tentative of a WFIA-900 ID. 9pm, WKAT-1360 FL "Talk RX", old reliable when CK are AS as they were tonight. 9/28- 8:23pm WDEL-1150 doing it all alone here on AU tonight. 10:05pm, CJAD-800 PQ clobbering CKLW w/MoR. 9/29- 7:15pm WNAV-1430 MD tentative w/outback at this time. 9/30- WJLN-1290 Lykens, PA finally w/weak s/off @ DX following s/off @ 8. WLIJ-1580 left alone after WKO deserted the channel @ 7:45. A while after WLIJ left with its c/w there was a soul station there which I assume was WESY-MS. T-Storn RM is way down at the end of the month & much early evening AU has been noted in the last week.

RICK NEWMAN - KRAM - 925 East Desert Inn Road - Las Vegas, NV - 89109

Currently, I use an SPR-4 w/an SM-2. I think this is a really strong combination which works quite well for me, especially in view of the fact that all external signals coming into Vegas have to come over the mountains. Unfortunately, to the best of my knowledge I am the only DX'er in Vegas and quite possibly in all of Southern Nevada, as I don't recall seeing the names of any Club members listed as being residents of Vegas. I wonder if anyone else uses the SPR-4 w/an SM-2? I would like to compare notes, idiosyncracies and the like. I find the SM-2 to be quite superior to the AL-4 (which is especially made by Drake for the SPR-4 & similar models. However, the AL-4 seems to have a better null than the SM-2. My money still goes on the SM-2. As for portables, I've seen and used a couple of TRFs & quite a few other quality portables. I think they're all excellent. However, the best radio I've ever used or owned, portable or whatever, is my Panasonic RF-1030/Tecon. 500 series. In many ways it outperforms my Drake. I've never in 14 years of serious DXing seen a radio as selective or sensitive as this portable. Of course, it's a bit on the expensive side (60-75 skins) but I feel it a worthwhile investment for any serious DX'er. It also has a good FM & PB on it. I drove across country from NY, & it was my best traveling companion. (I couldn't get a lady to accompany me, hi). Seriously, if the money is not too much of a prohibitive factor, I strongly urge investigating it. It runs rings around the TRF. Well, I guess I've gone on here way too long. I would certainly like to correspond with other DX'ers in either club. I enjoy sending cassette tapes back & forth. If you'd be interested, just send them to me, c/o KRAM, above address, or to my home address. Also, if you ever get to visit Vegas, feel free to give me a landline here at 1340 as I'm here seven days a week. I hope to become a fairly regular regular in these pages. It's getting cold now & it looks like we'll all be spending many an early morning at the dials. KRAM operates with 754 watts daytime, & 180w nighttime. I will send out v/l's & bumper stickers for good reports. 73 & a good season to all.

MARK CONNELLY - 52 Amden Street - Arlington, MA - 02174 (WA1ION)

More DX info from my trip. This time: an A: radio rock-n-roll guide to Ireland. Foremost of the rockers heard was R. Luxembourg-1439, which serves a large nighttime audience. The Top 20 countdown was heard early evening's - "punk rock" (euphemistically referred to as "New wave") & disco-rock were the prevalent mx. Big groups included Thin Lizzy, The Adverts, & the Beantown Rats. "I Feel Love" by Donna Summer was the top disco hit. R. Caroline-962a had current hits & well-known oldies; its signal in Ireland was not (con'd.)

(Connolly) impressive. Holland on 890 ran wall-to-wall progressive rock most nights, much of it the classical-rock variety w/groups like the Moody Blues & ELO. The German on 1421, a powerhouse, has US, Britain 1-40 & electronic OG science-fiction rock, like "Radioactivity" by Kraftwerk. The Swede on 1178 came in well w/EE progressive rock shows & interviews w/pop stars - talk was frequently of an "X-rated" nature. // Jer ans on 971, 998 & 1010 were loud w/an MoR style of rock most nights. BSC-1214 often had rock, but sometimes ran talk, CLA, or show tunes. A lot of US soul was played in a rather "civilised" pop format having a low "raunch" factor. Radio City-1546 in Liverpool was heard fairly well in the daytime from Dublin. It was a British-accented version of a typical US T-40 station - about two current hits to each "recent gold" hit. On 1594, a graveyard-like mess of short-skip British locals occasionally yielded recognisable mx: Steeleye Span & Pinkfloyd records noted among other progressive album cuts. AFN-1142 Germany had US pop mx, with American NX & SX. Of course, rock directly from US stations was receivable: WENC & WJEM, for instance, packed hefty signals into Ireland at local dawn. Ireland-566 doesn't seem to have rr: MoR, c/w, Irish mx, CLA mx, talk, NI & religion comprise the varied format. The best Irish traditional folk mx was on the low-powered Gaelic-speaking stations on 539 & 962. A few times I checked FM on a multi-band portable: no rock heard - only a few stations in Ireland, mostly w/CLA & dramatic presentations. FM rock stations from England can be heard on a good stereo receiver w/a rooftop aerial, in Eastern Ireland. That's all for now - 73.

0830-0130 ELT.

PAUL MOUNT - 507B Carman Hall - Columbia University - New York, NY - 10027 212-280-6925
We took another trip to Shelter Island Heights (90 miles E of NYC, S of Old Saybrook, CT. Pressly Millen, where are you?) I did a little day DX, then after dinner, around 11am we tried some more. My 14 year-old cousin wanted to see how many BB games we could get. We got quite a few, so he wrote down the calls, frequency & city along with the team carried. I noticed at least two stations on 560, 570, 580, 590, 600, 610, 620, 630 & 720. I also noted WACQ-1150 @ 11:27. Then I did some FM DX, hearing as far as Atlantic City, Mount Kisco, and Lowell. After doing 107.9-95.1 I went back to AM, the highlight was WLAP-630 Lexington KY at 3:28 ID, date was 8/23. One or two other notes: while in Hackensack Sunday 8/7, I drove down to the WVDJ-970 site. I dialed around a bit, & heard a loud signal on 1170 with Heart's "Saracuda" as I drove away & the signal faded. So I drove back to within 100' of the towers. The ID wasn't WERL, but WABC. Let's see now, 2x970-770=1170. I wonder if that was any effect on the reception there? 1 + 0.01369. Seeing the paucity of Musings I've been feeling a bit bad about not Musings, so I'm doing these all at once this AM 10/1. First, let me say I am glad to see contests in both clubs. I've joined both. But there's a problem in the bonus point incentive. Reporting your loggings to Eric Rittenhouse for credit gets a bit ridiculous, especially in this first contest. Since any station counts, I'm reporting stations heard 90-100% of the times I try, although a few goodies have been heard. But if Eric and Bob Walker don't mind, then I don't, either. My Summer ended well. George Greene was here the last week end in August (arriving at DXers' hours, 4am). On the way to Englewood, we had WFDU-640, carrier current station, on his car radio at more than two miles from the station. Adolph Holmes, former DXer (1973), now CB at WFDU-FM was surprised to hear of it. We drove to Trumbull, CT to sample the DX. I was hoping for the new WIXY-1600 but got WJNG, Sag Harbor, NY instead. Trumbull is just N of Bridgeport. Most of my new catches were FM in late August, since this Sanyo is good at pulling in FM stations next to locals. 9/1 the "All New WNEC" started @ 2pm, & I listened a lot that weekend. It seemed to be 90% 70's mx with minimal talk between songs, playing nothing too "pop", playing Boston's "Peace of Mind" and "Long Time" a lot, & having eight non-stop music hours a day. I was taping when the new format started, & have 45 minutes of tape of most of the new jocks in their first few days. 9/1 was also the first day back to school. My roommate, Alan Cross ell, is interested in radio. He worked at the Hackley High School station, just got his third phone, & understands what I'm doing somewhat since he's heard "sidp" on CB. One thing I bet many of you have found - people will be curious as to "what's that?" regarding the Space Magnet. Radical 5329.

WAYNE MURPHY - 1411 Phillis Avenue - Louisville, KY - 40215

Let it be known that the 1077-78 DX Season officially began (for me) on 9/25. Nice AU CX that night, & though only one newie was logged (and one tentative) it was still a lot of fun. KWCL-1230 heard @ 8:14 w/AM-FM (KDDI) ID. Later, tentative KADO-940 @ 8:29, no call or city mentioned, but gave power as 2500w non-DA, so had to be they. KTON s/off @ 8:30 right behind them. No sign that eve of WGAR, WQOW, or any of the NYC stations. The following MM was tres disappointing & I gave up due to HNL after about 20 minutes, only to find an approaching T-storm (it turned out to be a real dilly & kept me awake half the night!) So far in September, we've found cold fronts stalled over or near us for most of the month, which doesn't do a thing for DXing. On another subject, let's see more support for the columns. With over 700 members, the regular columns alone ought to be able to fill 24 pages most weeks. Articles would be nice from those of you who are technically inclined, or have interesting tales to relate. Looking back over the EPC days, the amount of high quality technical and semi-technical material to be found was staggering. Unfortunately, unlike the last two publishing committees, the LADS have no single or collective technical mind(s), and we are at your mercy to get good articles to publish. We are going to do all we can to recruit new material & writers, keep the old sources alive, and possibly even resurrect some dormant ones. Your help is welcome. Believe it or not, I can't think of anything else to say, so 73.

PLEASE SUPPORT ALL SPECIAL TESTS LISTED ON PAGE 1 BY TUNING FOR THEM AND THEN SENDING IN A REPORT TO THE STATION. IF YOU CAN'T HEAR THEM OR CAN'T TUNE FOR THEM, SEND A THANK-YOU CARD!

BILL HARANG - 811 Nevada Avenue - San Jose, CA - 95125

All-News radio stations everywhere have many critics - critics who see them as a little more than a headline service, a superficial presentation of news blurbs to listeners not sufficiently sophisticated to appreciate the underlying significance of most stories. Too often, these critics say, all-news stations seem to do too little with the resources available to them. They feel that even on the best stations, there is too much repetition, too much routine, institutional coverage and little interpretive or investigative or genuine human-interest reporting. But that criticism (if not carefully made) can be both specious and spurious. There is a tendency for people working with newspapers to fault all-news radio for what it isn't, rather than for what it is. I feel that a person shouldn't criticize all-news radio for not being a daily newspaper any more than a person should criticize a daily newspaper for not being a book. Neither is an adequate substitute for the other, but each does something the other can't do.

HANK WILKINSON - 5028 Maiden Lane - Santa Rosa, CA - 95405

In 1934 I made a decision to DX for and verify stations on the ECB outside of the continental U.S., Canada and Mexico except for several low wattage "catches". Even though I only have accumulated around 400 veries in all these years I feel that this particular phase of DXing has been quite rewarding and very challenging - especially in the late 60's and certainly to date in the 70's. It is becoming most difficult to "pluck" a new one especially when living on the West Coast. So far this season the Asians were fair to quite good from 9/5 to 10/5 with a peak period from 9/20 to 9/24. Aussies finally broke through and were quite good on 9/27-28-29 from 1200 to 1320 GMT. (8am-9:20am ELT-ERC) I was fortunate enough to log and report three new Aussies: 2BY-660 on 9/27; 2NU-650 on 9/28; & 4QS-750 on 9/29. Others were heard but they had been verified. Most constant Aussie this Fall is 2NR-700. Most constant Zedder is 2YC-660. For those who are interested, Australian and New Zealand stations will start operating on a 9 kHz multiple sometime in November of 1978. It should open up some frequencies for those seeking TPs. I will be concentrating on CA & AA stations starting in November. Thanks to all for their hard work in making DX NEWS possible. 73.

BILL HARDY - 2301 Pacific Avenue - Aberdeen, WA - 98520

DX has really picked up here. I only heard 11 new loggings in all of 1976, and I've already exceeded that the first week of October, 1977! There seem to be four main reasons for this. (1) I was very busy with work in 1976 and early 1977 (only six new loggings 1/77 - 7/77). However, I quit my radio job before leaving on vacation in July, so now that I am unemployed, I have much more time to hit the dials. (2) My next-door neighbor's tropical fish hobby killed DX in 1976. When he sold his fish last Christmas, my severe QRM disappeared. I highly suspect his fish-tank heaters! (3) The new NRC DX Contest has gotten me DXing very actively the first ten days of October. I'm getting a lot of new catches while I spin the dials re-logging the old ones. (4) Regional pest KRKO-1380 has been OFF MM's since August, per a tip from Bruce Portzer in Seattle, leaving 1380 wide open M.s. 3-8am. Nancy edits IRCA's WDXR column, which gives us both the advantage of using IRCA's WC tips for two MX's (or more) before they appear in print! I'm sure Ernie has logged a station or two that way through the years. (Aye, laddie -ERC) So there are advantages to editing a column, or at least being married to an editor, hi. Some of my best recent DX: 9/5- WNEE-1380 easy to ID w/T-40 mx, slogan "WNEE - It's Magic", 4am. WNEE was in again 10/3 3:28am so it's a good bet q/KRKO off. Also on 10/3 and also 1380, WPHM s/on after instrumental SSB @ 4:57am, folo by "Christopher Thought for the Day". 5am, I heard KFOI's call letters atop 1380 but faded right away, resurfacing 5:07 saying "K-Foi." I got them just in time; they're supposed to move to 990 or 1040 very soon! 5:56am, KRCC-1390 s/on after vocal anthem of some kind 'maybe the Pledge of Allegiance', folo by "Portals of Prayer" 5:57, 6am ID, & A1 NY. Back to 1380 for KOTA 6:58am instrumental SSB, s/on, WX, into CBS NX. KOTA's signal was loud. KMS was AN & nulled out for all the 10/31380 catches above. Several of my loggings this week were call changes for EUPH-1330, KILC-1270, KYTE-970, KZOK-1590, KZAM-1540, & KPAM-1410, most of which I just hadn't gotten around to re-logging w/new calls. I also heard format changes on KASH-1600 KEM-1400, KITI-1420, & KQIN-800; I'll send details to DDXD so look for them there. I'm sure I'll have enough for another newsy Musings next time, so 73 to all & 88 to Nancy.

CHARLES GEORGE - 6407 Howard - Dallas, TX - 75227

There is not very much to report at the moment since I have been chasing DX on SW. I now have an award from KASWA for having verified stations in 50 countries. I got two new veries on MW: KZEE & WPCF. I think that WPCF is my best DX catch so far. My totals on SW are 76 count ies heard : 54 verified. My totals for MW are: 62 stations, 24 states, & four countries heard-verified. Maybe one of these days I'll have as many as Ron & ERC. 73s.

STAN MORSS - Route 3 - Bradford, MA - 01830

10/10- WAEN-1590 Honesdale, PA TEST easy, 12:12am for one of my nearest 25 unverified. WSMN ID/TT & WAKR QRM. WLLH noted off 1400 @ 12:45 & weak TT & CKRV there. WLLH off MMs again I hope. Albania-1394 very strong @ 1am. Verie, WIXY. WHAV no longer c/w - now Big Bands, as of 10/10, but WOTW-900 is back w/c/w after sort of a Golden Oldies format for a couple of months. 'Twas quite a struggle to wake up for WAEN after putting in 12 hours Sunday but I'll do it for any on my nearest needed list. (Stan operates a large berry farm, for those of you who don't know -ERC)

THE MORE MUSINGS HERE, THE HAPPIER THE 735 OF YOU WILL BE! JOIN THE RADIO-ACTIVE MEMBERS IN THIS SECTION! REMEMBER TO DOUBLE SPACE, PLEASE, AND USE ELT IN YOUR TIMES, IN A.M. & P.M.

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MIKE HEPE - Box 7 - Houston, MS - 38851

I guess I'll have to win one of those contests - I need a recent NRC Log. The 1973 Log is my latest issue. Is WEUP nighttime? (Fulltime -ERC) whenever a station changes their call, does that mean that is a different station in the log? (Opinions differ, Mike - Mine is YES -ERC) I guess one reason that I have been idle at DXing was my radio was in a very uncomfortable position. Then I took the radio to the shop and had a general lookover. Everything is fine. Another reason is the GBers kept me busy with Power Mic, Antenna, mobile installation, SWR checking. I guess anyone will do what the money pays for first. I like to put question in the minds of people. It makes people think about different things than their own problems. The more you use your brain, the better off you are. I am willing to answer any questions posed to me. Is there any stamp service where I can get foreign mint stamps and IRCs? Also postage rates for other countries pose a difficulty to me. (Try George N. Robertson, W2AZX - DX Stamp Service - 83 Roder Parkway - Ontario, NY 14519 -ERC)

STEPHEN FRANCIS - 1620 Lodge Street - Alcoa, TN - 37701

Hi all. If you noticed something unusual SM 10/9 from 5:30 on between 1550 & 1560 with distorted FM-like audio, it was WCLS in Columbus, GA drifting from 1580. KLOU was all alone here on 1580, but by sunset WCLS was back on frequency. Hopefully someone with more sophisticated equipment than my TRF heard it and can supply us with the exact frequency. This must be some sort of record for a U.S. drifter. DX: WSMI-1540 IL good @ 8:15 s/off-SSB o/KXEL 9/21. 9/23- WCKM-1250 SC fair w/quick 6am s/on & into Mutual NX. MM 9/26- YVNA-660 fair in WNEC n.ll @ 5:04 w/"Ondas de los Medanos" ID. 10/1- WTNL-1390 GA strong w/6am s/on. MM 10/3- Nothing new or interesting heard, but I did get my name on the air. WFRG-1600 NC was requesting an out-of-state collect call @ 5:15 from anyone who happened to be hearing them. They were still begging for it @ 5:25, so I took pity on 'em & called. The DJ said he'd send me an album since I was "nice enough" to dial direct. I'm not really "nice", I just can't see giving Ma Bell all that extra revenue when it's only a matter of 19 or 20¢ when dialed direct, hi. (How about us "poor" stock holders, Stephen? Hi -ERC) 10/6- "King Country" the new WKNB-1060 GA, heard w/super signal 6:57pm; UPI NX & c/w to s/off 7:14 w/Floyd Cramer-ish piano SSB. WPHC-1060 TN heard w/s/off immediately after for two 1060 newies in one sitting (or in this case, reclining. One of the advantages of DXing w/a TRF, since trying to balance a communications receiver on your chest probably gets a little uncomfortable after a while, hi). 10/8- Omega-575 San Jose, C.R. holding off 570/580 QRX w/LA mx & fine signal @ 12:50am. MM 10/10- WAEW-1590-TEST noted 12:15-1 w/pop mx & a half-dozen complete IDs between each record. They were completely top channel w/rock-steady signal - incredible for 500w! A great way to start the GPC season. KRLD-1080 AMing; unnn WYZE-1480-TEST not heard. WNOE-1060'S pattern must be out of whack; formerly weak, they're now killing KYW even during the week. CW-590 has been off since late September; let's hope it's permanent. More later.

DICK TRUAX - 3003 Gleason Lane - Louisville, KY - 40299

Greetings from Derbytown and here's to the start of a new DX season. Hats off to the boys in LINCOLN for a fine Convention. Even though I arrived late and left early, it served to fire me up for the season. A brief re-intro - by the time this sees print I'll be within two weeks of being 35 years old, am married with three children and travel a lot, mostly in Kentucky & S. Indiana in my work. Equipment is a very recently acquired R-388 & the old trusty HQ-180A, both which I plan to hold onto for some years to come. I also have an HQ-160 in excellent condition which I hate to lose but one cannot listen to three receivers, so I trust to find a new home for it soon. Antenna is a 2 1/2' loop using BAK-1 amps when needed. Totals as of this date: 955 loggings, 45 states, & not too sure on provinces & countries but it's not very impressive. Latest loggings: 8/38- Finally WREM-1000 KY 8:22pm w/rr & ID. I wanted to log it before the new station in Danville goes on - not on as of 10/11. New WSRG-1070 KY is on, noted first on 8/23 while in Elkton area & logged at some 9/24 @ 8:01pm s/off. Good CX to North the last few days. 10/9- CJNR-730 Ont. w/rr & ID @ 7:53pm. MM 10/10- WAEW-1590 PA TEST @ 2:03am w/six IDs & mx. WZZA-1410 AL s/off @ 7:18pm, CFCH-600 Ont. w/rr & ID @ 7:44pm - Cuban very weak. More as it happens.

MIKE TUGGLE - 909 Moores Mill Road - Bel Air, MD - 21014

I put up a new antenna, an 85' LW 50' high, only 15 or 20' higher than the old antenna, & a few feet shorter, but the volume increase is incredible! To anyone who is considering lengthening his antenna because of mediocre results, I'd strongly suggest they try raising it instead. Recent new loggings caught on the new highwire include WFRG-1600, WSRF-1580 (v/q), WJSD-1590, WHEE-1370, WFBG-1290 & best of all, CJCH-920. SSS reception was great up until the end of September, but on 10/1, all the daytimers shifted their s/off times up 45 minutes or so into broad daylight - just in time for the NRC listening contest! I have been wondering, what would be the possibility/practicality of a column (like Verie Signers) for station ID slogans, phrases, catchwords, etc.? Most of us in the East would recognize "KB Radio" on 1520 as WKBW, but when Ernie hears "Honey Radio" on 1350, he might like to know that this is WKLY Portsmouth VA (or whatever it is) & so would I. How about you? Lots of stations throughout these clogans around like crazy but are very stingy in giving out their call letters. Likewise, such a slogan might pop up out of the graveyard mud - if one had an idea what the station might be, he could stick with it if he needed it or push on if it was already logged. Of course a listing of EVERY slogan used by EVERY station would be overwhelming and virtually useless. But a list of the more unique and catchy slogans used by daytimers, regionals & graveyards might be quite useful. After all, this is the basis for IDing many of the LAs & other (con'd)

(Tuggle, con'd) foreigners. Another possibility is to make an effort to include this info in submissions to Eric's DDXD column, particularly during the contests since info on locals may be included, and this may be of great value to others. How about it?

BEN DANGERFIELD - 202 Governor's Drive - Wallingford, PA - 19086

In my last Musing I covered my Summer radio listening in Japan & Taiwan. We next flew to Hong Kong, city of views and shops. Five locals here, six if you count the British Forces station on 1250 which operates only a few evening hours. EE on 545 & 1050 (commercial) & Chinese on 610, 640, & 850. 545 seems to get out pretty well, as I heard it in Taipei, Bangkok, & Manila. Hats were usually heard against the Chinese language locals and at first I figured they were being jammed by Red China. However, after reading Pete Taylor's article in the 1/5/76 DX NEWS I concur that Mainland China is just trying to "compress" the signals from the local broadcasters. Programming on most of these stations is recent pop mx. And I thought nearby Macau would be easy to log from Hong Kong, but not so. 735 is badly squeezed by Red Chinese carriers, 900k is even worse, although the 250 watter on 1200 occasionally got through. It does seem that Red China prefers their people to listen to home broadcasts. Of course in Hong Kong there are three or four pretty good daytime signals from nearby China, mostly in the Canton area. At night the Red Chinese dominate, many on solits, but I did manage to hear Sabah-690 and some stations from the Philippines such as DWV-860, Quezon, and DWXX-1000, Manila. We took the hydrofoil to Macau, a most interesting place, but I didn't have my radio with me. You can look right into Red China. On to Bangkok, Thailand, where I counted FORTY local stations, day & night, some overmodulated, some undermodulated, all operated by agencies of the government (Pete, you were so right!) Outside DX is virtually impossible. Of course, the VOA on 1580 is quite strong, but generally I was not able to accomplish much here. Also, I had finally gotten out of range of U.S. Armed Forces stations (the one on Taipei was still audible at Hong Kong) & I was lowered to following baseball through one liners in the local EE language papers. My next Musing, hopefully, will take up Singapore and the PHILIPPINES.

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

Hi again all. As promised, a re-intro. I'm 18n a soph at Queens College (CUNY) majoring in Biology, pre-med. Queens is the home of WQMC-590, now a full-fledged carrier current station. If anyone happens to hear them, you can send the report to me & I'll take care of it. So keep those reports coming, hi. Extra-curricular activities, not all suitable for print, include basketball, ping-pong and various other sports like auto racing. Also hobbies like stamps and postcards. I have a few bumper stickers and other station material for trade if anyone's interested. One wall in my room is covered with radio station and mx stuff, so anything can be "immortalized", and I'd like to hear from some of you "small-time" traders. I'm a small-time trader myself, I guess, because I don't have a Xeroxed wanted-to-trade list, hi. Aside from ECB, which I've been DXing since '72 or so, I've been trying to do some FM & a little TV, the latter two with indoor antennas. Logs stand at 880-something BCB, 170-something FM, & around 50 TV. Maybe I'll have some stuff to report next Muse. 73s.

MARC A. BERGMAN - 1120 Hull Place #4 - Oxnard, CA - 93030

This is my first Muse so I'll give you a quick ID. I'm 28 and work as an electrical technician for the government. I got serious in MW DXing this year & joined the Club. I decided after all the help I had received that I should do my part. I'm using a Sony CRF-5100 Earth Orbiter. Since Dan Phillips had a review of the ICR-5900 in the latest DX NEWS, I'll tell you about my radio. It's a ten-band radio: LW, MW, FM, Public Service, Air, & five SW bands. It's quite sensitive on SW, around 1 uv for 6 db S/N. MW is 24 uv for 6 db S/N. LW is 100 uv for 6 db S/N; not too good. FM is 3.2 uv for 30 db S/N. Selectivity is 10 kHz at 40 db at 1400k. This is really poor. DXing splits with locals nearby is just not done. Better filters in IF section would help. This radio has no RF amp section for LW, MW, or SW. It tends to overload with strong locals. It also has problems with images. I think the Radio Shack TRF is at least its equal on MW & it has better audio. The CRF-5100 is a good radio if you want a lot of choices of what you listen to. It is well built with typical Sony quality but is just not made for MW DXing. I have added some extras to help it along. I built the NRC loop. It's really great for signal pickup and ability to null. I also built the digital readout that was shown in P.E. in Feb. 1977. It really works great. You can zero right on the station. I started out as a domestic Dlxer but have switched over to mostly foreign listening. I set a goal to receive a TP and Alaska for this year and have already done these. I also got my first South American last night. I sure wasn't expecting it to be Chile. I have ordered an FRG-7 and plan to make selectivity and AVC changes to it. I think this set has great possibilities. I'll have further reports on this RX. Good DX to all. (Welcome to the NRC and to the Musings Section, Marc! Muse often! -ERC)

MICHAEL COUGHLIN - 17 Bellis Circle - Cambridge, MA - 02140

Everyone should travel down to his public library & read the excellent article on 160 meter receiving antennas in the June 1977 QST. There is discussion on two-wire Beverage antennas, with construction plans. Arrangements are shown for connecting the terminating resistance at the receiving end, reversing the directivity, and providing for rotating side nulls. Other articles in the radio amateur magazines lately have mentioned underground Beverage antennas, and even underwater antennas for MF reception. Of course if you bury your antenna, you will lower your signal strength, but it seems that noise pick-up is lowered even more. I'm sure some of us who don't have room to string up really long wires could bury them a few inches below ground instead. (Can you make our GTG in Provincetown 11/26? -ERC)

LOUIS BUEHLER - 26a Marie Drive - St. Charles, MO - 6301

Well, here is your thrill of the week, at least I think that a Muse from St. Charles' only DXer would be a thrill, hi. I have been sending out a lot of reports, at least for me it is a lot. I sent one on 9/21 & as of 10/7 I have gotten up to #17. So far WKXO-1500 in Berea, KY answered with a personal letter and WHO-1040 Des Moines w/a card and WMAV-970 Springfield, IL with a personal letter. This comes out at a grand total of 73 reports out and 52 answered, and all this since I sent my first report on 5/1/72 to WCKY, amazing, isn't it? Look out Ernie, I am going to catch up with you yet, hi. I got a new tape recorder from Radio Shack a while back & I love the way it works except for the fact that it puts out a strong interference every 20 or 30 Hz all across the band. It sounds like someone is testing with about an 800 Hz tone. It can be nulled out pretty well with the loop and a strong signal will pretty well override it but it is very annoying. Anyone know what can be done about it? I have been getting up to do some DXing before work and have managed to add a few. 9/24- While trying for the KS-D-750 TEST, which was not heard, I got YNK with "La Equis" ID on tape. 9/26- 5:51am I added WFDF-910 & 6 KPOF with "R. 910" ID. 9/27 I added four new ones, 5:45am WITY-980, 7:40pm KJAS-1170 with "Soli Gold - KJAS"; 8:28pm finally I managed to get tape of KFKU-1250 as they changed over to WREN. 10pm while getting XDDY-1000 ID on tape I heard someone w/CBS NX u/WOFL with Mutual NX, either KOMO or KTKO must have changed networks but I don't know which one. 9/28- I tried for the WWOV-1420-TEST but not heard through WOC/WVJS. 9/30- 5:25am, KOTN-1490 drifted up for a short while, only other station I have ever managed to dig out of the mess here is WESL. 10/2- 5:20 I finally got a tape of WFAA-570 with "Long John Nevel & Candy Jones Show" tele-talk, they ID as Dallas-Fort Worth by the way. 6:26am, KALB-580 added to log. 10/3- 5:25, KTSA-550 heard, obviously no longer SP till 5:30. 10/5- 5:58, CBN-990 heard w/GSQ and O Canada at 9/30, so not 7 s/on any more. I am going to try to get a Muse in for every issue this year but won't promise. 73s.

BOB MCCOY - 4105 Washington Street - Lincoln, Nebraska - 68506

By now I've recovered from the Convention and the past month of frantic activity at work, so it's time for a belated Musing. I really felt that the Convention was worth a year's work, and hope that those who attended had as good a time as I did. Neil & I were impressed with the attendance (and with the appetite for Coors!); it's flattering to have people come from as far away as British Columbia and Massachusetts. It's just too bad that Darjo couldn't come. DX has been improving greatly here, especially within the past few weeks. New stations here are: KROK-1260, Crookston, MN w/f/c, ID @ 1:04am 8/22; KNEH-1530, Norton, KS, TT & ID 1:23am 9/19; KEDD-1510 Littleton, CO, s/off @ 2am 10/3; KIMO-1060, Longmont, CO s/off @ 8:15pm; CFRM-1290, Winnipeg, on new frequency (ex-1470), noted surprisingly well /NDL nulled @ 2:14am, 10/8. KELY-920, Spokane, WA surprisingly strong @ 3:58am on 10/9 at Neil Zank's folks' cabin on Lake WaKonda, about 40 miles E of Lincoln. WAEH-1590, Honesdale, PA TEST came through quite well u/WAKR, 12:42-1:39am, 10/10, & I also caught KF00-790, Fargo, ND, @ 1:19am on 10/10 RS. I thought I'd be smart and put in a new volume control on my TRF, using a heavy-duty rotary this time. Well, something came unhinged, and the RX is out of service for a while. I had bought another TRF for half-price a while back on the Radio Shack store manager's sale table, & found it to work perfectly. It still lacks the calibration scale and other modifications of the other, but I won't be able to use it with a Beverage this season, so that can wait. By the way, sorry about the Convention Beverage being canceled. Some of the roads were open about a week after the monsoon, others were closed by the county for nearly a month. On top of everything, the plot of ground has been sold (some people put business over DXing!) Congrats to Admiral Ernie & 73s to all.

KEN ONYSCHUK - 16771 Shea Avenue - Hazel Crest, IL - 60429

Hi again, I am once again enjoying my pastime of SS DXing after supper. Another few weeks to go before we get that extra hour of sleep. Getting back on day shift, I had opportunities for one station - one new station, in three weeks. KBEV-1560 MN on 9/10, Sept. L3S @ 7pm, resulted in the following: 9/19- WAUK-1510 WI w/EL mx, local ads, s/off 7:55-8pm, a most difficult 10kw D-3 to hear because of WLAC; Wis. #30. 9/28- WMAX-1480 MI w/s/off @ 8pm, unnn. 9/28- KMA-960 IA w/ID & pop mx @ 8:22pm, then WFIR-VA w/contest promo & oldies @ 8:42. September ended with me & a few thousand other Steelworkers out of work. Pullman-Standard & The United Steelworkers of America failed to reach an agreement on a new three-year pact, so the strike is on at plants in Chicago (East 111 Street, that's me), Hammond, IN, Butler PA, & Bessemer, AL. I've been out six days so far & job hunting. I haven't picketed yet. October DX so far: 10/6- WVOY-1270 MI in WACA null, very good w/T-40 mx & lots of ads, & WVOY IDs, in real well, a rarity, despite supposed pattern change @ SSS. So over to 1280 @ 7:35pm & rock jock in FF on CJMS-Que. really talking up a storm, w/a few IDs tossed in. Then @ 7:40 over to 1310, DJ talk & c/w on CFZY Ont., another dominant Canadian killing our domestics, w/ the TRF directional due N. WIRA-WI w/Packers FB game promo. 10/9, I looped WOCO nicely, despite WAIT-820 splash, to catch KEDA MN @ SSS to s/off 7:25-7:30 w/MOR. Almost expected WNYC. Did they sign off early? WAEH-1590 PA TEST was heard beautiful 12:40-12:50 w/plenty of IDs & contemporary mx. It really did a job on WAKR. WY2E-1480 GA TEST was nowhere. Finally @ SSS on 10/10 after WTVS-850 s/off, WJWC MN in L&C for 15 minutes before 7:30 s/off. I tried for years for it, SRS, SSS, frustrated. I expected religion, & got it, but unusually strong today. BB season is over & I have no interest in the "World Series teams, so it's Tues. 10/18 for the NBA openers. Should be no change in radio lineups. Local change, WAIT-820 went talk-radio 82 MM 10/10. Yeech. But your kind of Radio, Roger Sabella, my friendly Real Estate Man, hi. Adios.

MOTHBALL MEMORIES

CHAPTER LIX - SYNCHRONIZED STATIONS OF THE PAST - by CARY SIMPSON

In the early days of radio, numerous "synchronized" operations were used at night to permit simultaneous broadcasting by two or more stations on the same frequency, with the same program and with the frequencies precisely locked to one another. A notable example was that of KFAB, Lincoln (later Omaha), Nebraska, that was synchronized with WBEW, Chicago, during the evening hours. Popular Science carried an article about the primitive "delay line" used to eliminate echo because of the time it took for the program to get from Chicago to Lincoln. They used a speaker at one end of a length of sewer pipe that was stuffed with rags of varying thickness from one end to the other. It took as long to get through this pipe as it did to go by line from one station to the other. Thus - no echo! WBAL, Baltimore, was synchronized with WJZ, the NBC-Blue Network station, evenings during the 1930's. And there were others. WFAF in New York, synchronized with WTCR, Hartford, on the former's 660 frequency briefly in the mid-thirties. One of the most interesting was a four station CBS setup on 1430 kc/s. in the Northeast. WHP, Harrisburg, Pa., WOKO Albany, N.Y., WHEC, Rochester, N.Y. and WCAH (now WENS) Columbus, Ohio, all operated simultaneously with frequencies precisely controlled and straight CBS programming. This plan began in April 1931 and lasted until April, 1937. Sometimes it didn't work that well, as I can recall hearing a loud heterodyne on 1430 when I was too young to know why it was there. As I recall it now, probably one of the stations was about 500 cycles off frequency. I grew up about 100 miles from Harrisburg, and the "beat" was perfect at that distance. As I recall, it lasted for many months before being corrected. Although these operations didn't continue into the 40's, the FCC did authorize a number of "booster" stations that continued for many years, including at least two still in existence. WLLH, Lowell, Mass. operates with 1,000 watts daytime and 250 watts nights. WLLH also operates another station in Lawrence, Mass., about ten miles away, on the same frequency with 1,000 watts day and 150 night. They are synchronized and carry the same program. When driving from one town to the other, you will note precise nulls as the two transmitters cancel each other each wavelength along the highway. It sounds like the familiar "picketing" one hears on FM when driving directly away from an FM station's tower. Also, WET, Charlotte, N.C., had a booster at Shelby, N.C., to help fill in the deep null in its pattern to the West. By coincidence, WET had this null to protect KFAB, Omaha, mentioned in the first part of this story. So, WET operated a directional "satellite" at 1,000 watts, fed by microwave.

NEXT WEEK, WE'LL PICK THIS UP AT THIS POINT AND BRING YOU THE REST OF THE STORY. WE HAVE ONLY TWO MORE OFFERINGS AFTER THAT, MEN, SO PLEASE, THOSE OF YOU WITH SOME PLEASANT MEMORIES OF THE OLDEN DAYS OF DX, PUT IT ON PAPER, AND SHOOT IT PROVINCETOWNWARD, DOUBLE-SPACED.

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Only one verie to report, thanks to a personal visit to the station for me by Tony Lagattuta (thanks, Tony!) from WHEH-1350, #4,063. Now let's see what happened along the dial during the week past. 10/12 PM - A bit of needed WPNH-1300 u/semi WJDA, & WQBK at 5:20-5:41pm, but only bits and not enough to report. 10/13- Virtually the same on WUPE-1110 (not WUPI as I called 'em before), "Whoopee Radio". 10/14- Another new AN we have, in WSPR-1270. I heard the "legal" ID on 990 of WZZD, Philadelphia, so those are the new calls for old WIEG - from "Wibbage" to "Wizzard-100". Unn WFXV-1560 testing w/rr 1:36-2:05. Another TTer on 990 o/u WZZD 1:51-2:28, no announcements heard. 10/15- UNID TTer today on 1320 3:12+. And an OC on 1560, not WQXR's carrier. SM 10/16- UNID TTer on 1490 1:42-1:54. I think I got WSPD-1280-TEST - much tones on and off, but only one single word was heard here during the entire half-hour, "Delaware", so tentative was sent. The tones were quite strong, but the announcements just didn't make it - no CW was used. Thanks for this one, my first new Delaware log since 1959, Dave Schmidt! During the day I finally got around to sending a report to local WACQ-1150, ex-WOOP. MM 10/17- 'Twas pouring & quite CRNey, but DX was good nonetheless. UNID TTer on 1470 12:55-1:05 when he became an IDed TTer - WLAM, unn. Then to 860 for the WXAP-TEST, netting me a new catch - but alas, not WXAP. A fine signal was observed there, with R. Clarin off, from "Cadena Continental", YNAV, and report taken. There was no sign of Atlanta here. When the Nicaraguan s/off @ 2:02, he left R. Munnial there. A loud OC had been atop the channel from 1 to 2, likely CJBC's. I noted WOR-710 on OC only @ 2:33, and two different testers w/TT on 850 at that same time. "The Big Night Train" is a-rollin' again on WFTP-1330, you'll be happy to hear, but Long John & Candy certainly aren't, hi. There were two OC's beating against one another on 1550 circa 2:40. Unn KCRG-1600 ETing @ 2:43. Old friend WJLK-1310 heard topping there @ 3:09, w/most of the Aners like CFQM, WLOB, CKOY not in evidence, nice to hear this ex-semi-local (for me in Brooklyn days) again! Then, on 1600 @ 3:45- 'twas KATZ on top, NN. Unn WINE-940 ETing w/rr 3:45-4 when he IDed. And, this peeyen, finally enough on WUPE-1110 to send a report - now all Massachusetts stations are either verified or reported. 10/18- Figuring WXAP-860-TEST might show up 24 hours late as happens sometimes, I tuned there today and found this time, R. Clarin and two Mexicans holding down the channel, KEUN w/cl mx, and XEMO with preaching, in EE. Was WXAP on? I'm hoping for a nice turnout of DXers on Sat. Nov. 26 - let's hear from you, please! I'd like to acknowledge phone conversations with these NRCers since the last time: Pat Hurlage, Mike Heppie, Ted Fleischaker, John Kromka, and Stan Mores. Come on, gang - MUSE! C U N 7.

THIS SECTION IS YOURS, YOU KNOW - IT CAN BE ONLY AS GOOD AS YOU MAKE IT. PLEASE SEND IN YOUR MUSINGS, AND PLEASE DOUBLE-SPACE THEM, ESPECIALLY YOU NEWER LADS, AND WE CONTINUE TO RECOMMEND YOU LIST YOUR CATCHES DAY BY DAY IN EST USING AM & PM. THERE ARE MANY IN THE NRC WHO WANT TO KNOW WHAT YOU HEARD THE PAST WEEK - WHY NOT TELL THEM IN THIS SIMPLE, EASY WAY? WE'VE STILL GOT A REPRESENTATION HERE IN MUSINGS FROM ONLY ABOUT 3% OF THE MEMBERSHIP! -ERC