



DX NEWS

*the magazine of the
National Radio Club*

SINCE 1933

Volume 44, Number 30 Monday, Sept. 26, 1977.

STATIC FROM HQ

The recent NRC Lincoln convention was a good one and all there reported it was a fun weekend--thanks to the Lincoln Convention Committee for the super job! Along that line, the convention voted to change the method of selecting future convention sites--effective this year each city wishing to host will submit a written (2 pages 8 1/2 x 14") proposal by Nov. 1 to headquarters. The proposals will appear in the first November DX News and all club members will vote on the site, with announcement of the winner in January. So far two cities (Atlanta and San Francisco) have expressed interest in the 1978 NRC Convention--are there others? If so, send in your proposal (what activities, room rates, etc.) in the next few weeks and may the best city win! Sadly, we record the passing of Buyers & Sellers, the equipment exchange. They inform us they ceased business as of 9/16 due to other commitments and a business decline. Lastly, please muse and also support all DX News columns. This time of year, when things are still slow and most members are busy, contributions are especially needed, so don't forget to send in your contributions! Also, our congrats to Ernie Cooper who recently was made an Admiral in the Nebraska Navy--long may he wave!

CPC TESTS

This is the first test schedule for the season--we also remind anyone who is thinking about arranging a test, but hasn't yet done so, to make haste!

- Sept. 24 0100--? KSE0-750 Durant, Okla. 250 w. Will use 1000Hz tone & IDs ever 5 minutes. V/S Bill Coxsey, PD.
- Oct. 10 0005-0205 WAEN-1590 Honesdale, Penn. 500w. Will use TT and contemp mx. May also test aux. xmtr. during test. V/S Linc Nickerson, GM, WAEN Radio, Box 1590, Honesdale, Penn. 18431.
- Oct. 16 0300-0330 WSPD-1280 Seaford, Del. 1000w. Will use TT w/voice IDs every 3 minutes, poss. code IDs. V/S Allan R. Frazier, Operations Manager, WSPD/WSUX-FM, 1039 S. Dual Highway, Seaford, Del. 19973. Prepaid calls to: (302) 629-6636.
- Oct. 24 0630-0700 KCTE-1140 Southwest City, Mo. 250w. Will use c&w instrumental music. V/S Don Williams, CE, KCTE, Box 258, Southwest City, Mo. 64863.
- Nov. 20 Time TBA CJGX-940 Yorkton, Sask., Canada. Will be another special program for DXers, similar to one last season. More details to come.

THANKS: To Ron Schiller (KSE0); Harry Hayes (WAEN); Dave Schmidt (WSPD); Brett Hanavan (KCTE); and Kelly Andrews (CJGX), for arranging our first tests of the season!

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Also, assorted clippings an Afr graph and other items to strike the fancy and interest the minds of DXers tired from a summer of heat, humidity, static and other such repulsive and seedy things!

Jed.

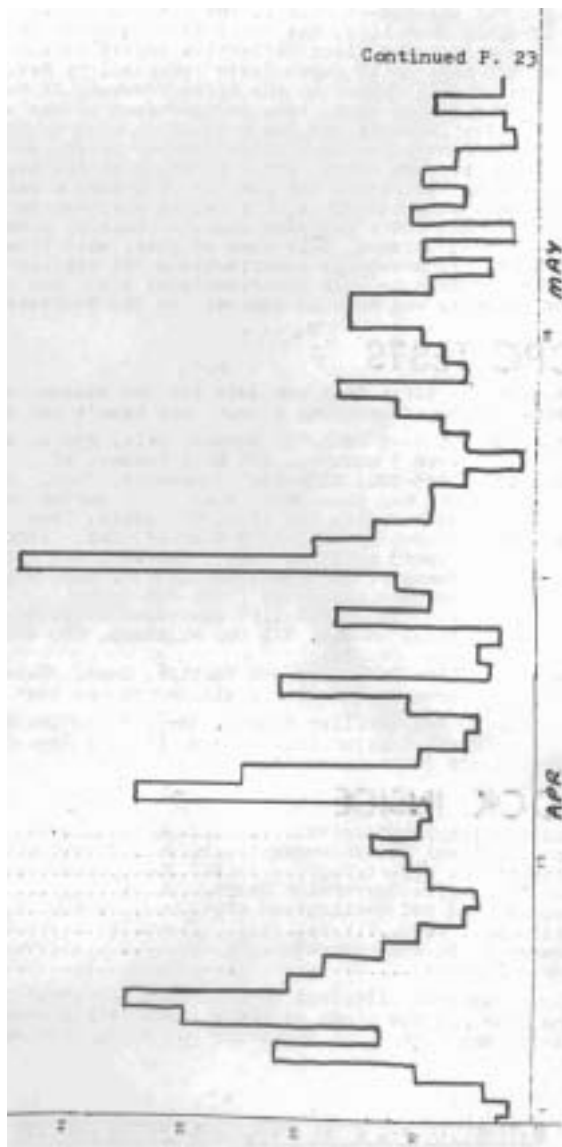
THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB

LATE TEST****LATE TEST: Oct. 10 WYZE-1480, Atlanta, Ga. 0000-???
Tone, voice and code ID's, address unavailable (Arranged Hutton-NRC)

THEY JOINED

Frank Aden Jr., 1535 NW Ithaca Ave., Bend, Ore. 97701.
 Larry Blair, 1189 Space Lane, Austin, Texas 78758.
 John Herkimer, 180 North Street, Caledonia, N.Y. 14423.
 Ronald L. Culllette, 101 Liberty Street, Meriden, Conn. 06450.
 G.M. Peterson, 2011 Munroe, Madison, Wis. 53711.
 Mike Ryan, P.O. Box 191, Belmont, Calif. 94002.
 Felix Z. Collier Jr., 1421 Pinecrest Avenue, Charlotte, N.C. 28205

This graph shows the daily variations in Afr, the Frederickeburg (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.

INTERNATIONAL DX
DIGEST

CHUCK HUTTON
 P.O. BOX 2087
 DECATUR, GA. 30030
 404-633-1198
 (KBP09 2300 ELT)

Times are GMT. For ELT subtract 4 hours. Deadlines are usually Monday.

- 540 PHILIPPINES DXBS Malaybalay 1025-1055z. (Maguire)
 AUSTRALIA 4QL Longreach 1134-1200 ID QSM'ed by XEWA. (Maguire)
 570 TAIWAN 0742-0805z, announced "this is Taiwan in the Overseas Service", no Taiwanese listed in WRTH. (Maguire)
 584 USSR Svobodny in fair w/CC talk 1315 8/30. (Tomer)
 600 AUSTRALIA 7ZL Hobart Tasmania fm 1129-1144z when EDMB s/on. (Mag)
 610 AUSTRALIA 2FC Sidney regular w/KFRC. No sign of Guam. (Maguire)
 615 CHINA Heilongjiang in fair w/CC talk 1323 8/31. (Tomer)
 640 FIJI R. Fiji Lautoka 1051-1110z s/off. (Maguire)
 647 USSR Iran noted 1333 8/25 w/YL in unid oriental lang. (Tomer)
 650 HAWAII KOBL Honolulu playing pop mx fm 0955-1000 9/5. (Wilkinson)
 655 NORTH KOREA R. Pyongyang outlet w/vy strong signals fm 1002-1014 9/5. (Wilkinson) R. Pyongyang w/KK drama 1245 8/30, strong signal. (Tomer)
 660 AUSTRALIA Byrock 2BY in weak w/soft classixal mx // 2NR 700 1224 8/25. (Tomer)
 JAPAN Obihiro/Nagasaki synchros heard weakly w/usual NHK JJ talk 1320 8/31. (Tomer)
 700 ALASKA Fairbanks KFAR strong 1230 9/2 w/rock, ID, and Alaska wx.
 AUSTRALIA Grafton 2NR noted all summer long at pre dawn; 1212 8/25 w/NSN mx; blast g in 8/29 at 1315 w/ religion. This has got to be the easiest to hear Aussie and is great for establishing parallels. (Tomer, last two)
 JAPAN JOFB/JOKD Hiroshima/Kitami (impossible to tell which) completely on top the channel fm 1214-1224 9/5. Same situation 1221 9/6. (Wilkinson)
 710 FIJI R. Fiji Suva 0948-1032z. (Maguire) Date??
 750 AUSTRALIA Toowoomba 4QR in weak 1245 8/19 w/ABC ID in between programs. (Tomer)
 JAPAN Sapporo JOIB weak/fair 1245 8/19 w/JJ talk. (Tomer)
 770 AUSTRALIA Melbourne 3LO in w/ABC mx 1302 8/10. (Tomer) 0834 on (Maguire)
 JAPAN JOUB Akita atop KOB w/EE lessons fm 1037-1041 9/5. (Wilkinson) with potent signal and JJ talk 1322 8/31. (Tomer)
 780 ALASKA KNDM Nome in w/good sig, steady, MOH and C&W mx, good ID 0824 9/5. KURL off, WBBM looped. (Tomer)
 782 USSR Nov HR speaker here for mx. Heard fm 1211-1213 9/5. Splash from KASC prevented further logging. WRTH lists Spassk Dalnly here at 75 kw. (Wilkinson)
 820 NORTH KOREA Najin w/woman in KK fair 1248 8/25. (Tomer)
 835 CHINA very loud CC speaker here all AM of 9/5 and 9/6 starting at 1200 GMT. (Wilkinson) Nanchang heard at good level 1312 8/30; YL in CC. (Tomer)
 840 AUSTRALIA Rockhampton 4RE fair 1225 8/25, cl mx // 700. (Tomer)
 SOUTH KOREA HIKY Seoul very strong w/lively mx and male vocalist fm 1250-1259 9/8. Their beautiful sounding chimes and six beep ID heard at 1300. (Wilkinson)
 USSR Spassk Dalnly w/opera, then chimes IS 1330 followed by woman in RR reading mx(7). (Tomer)
 844 GILBERT ISLANDS Tarawa VSK1 fair w/native mx 0815 9/5. (Tomer)
 850 ALASKA Nome KICY in w/religious, full ID 0800 9/5. Good steady sig; even better 0920 when RR sounding talk was aired. (Tomer)
 860 MEXICO XEMO R. Latina 1205z. Thought I had something good with the slogan until the XEMO ID. (Maguire)
 NEW ZEALAND 1Y2 Notoria 1126-1156z, 1426-1430z. (Maguire) Date??
 864 INDONESIA Cirebon likely the SAR here 8/18 at 1155, no audio. (Seaver) SAR on who??-CH
 866 NORTH KOREA new frequency here for R. Pyongyang. Was in // to 655 from 1151-1203 9/5. Nothing on 876. (Wilkinson)
 867 JAPAN/CHINA JOUB Musanoto in and out with a new Chinese stn on this freq 1048-1100 9/5. Usual NHK ID at 1100 while CC aprk had a march and one lung beep. (Wilkinson)
 870

880 AUSTRALIA 4BH Brisbane, Qsld. 1037-1100z. 1100z WCBS s/on. (Mag) SOUTH KOREA GWANGJU HLKH fair 1300 8/31 w/KK rdama, HLKH ID and four pips. (Tomer) SOUTH KOREA/JAPAN HLKH and JOPK Shizuoka both quite audible fm 1302-1308 9/8. HLKH on top starting at 1308 at excellent volume. (Wilkinson)
890 FIJI R. Fiji II Lautoka 1028-11104z. (Maguire)
930 ??? AUSTRALIA OR NEW ZEALAND Comedy skit, electric organ mx, reedy mx under US QRM. (Maguire)
960 NEW ZEALAND 3YC Christchurch 1154-1202z. KABL QRM. (Maguire)
1000 NEW ZEALAND Touranga 1ZD the best and most regular DU on MM's, 7/18 good fm 0745-0926, 0800 nx, 0900 w/"R. New Zealand News", intro, wx, many old pops. KOMO off (alternate MM's) with TT and no TT. (Seaver)
1053 INDONESIA Jayapura Irian Jaya probably the excellent carrier 8/18 at 1216, 8/22 at 1055 with some audio. This is listed at 10 kw, but is the closest Indo (7000 miles) and the most southerly path. LSS is about 0835 in Sept. Excellent freq selection for us.
1134 INDONESIA Banjarmasin only a weak carrier 8/22 at 1045, LSS abt 1021. This is 50 kw on Kalimantan. (Seaver, last 2)
1210 CHINA powerful stn (Kumming 500 kw?) with lively folk songs 1318-1323 9/8. No use logging-they don't verify. (Wilkinson) location unknown, fair 1240 9/2 w/CC opera. (Tomer)
1410 AUSTRALIA 2KQ Newcastle, NSW 1330-1455z. (Maguire)
1440 JAPAN JOWF Sapporo 1124-1152z. (Maguire)
1450 EASTERN CAROLINES WSZD Ponape, 1006-1130z. Another report in hopes of obtaining a verie. Earlier report plus two follow-ups have yielded no reply. (Maguire)
1470 PHILIPPINES FEBC Tagalog 0943-1000z. (Manguire)
1475 SABAH Kota Kinabalu 1113-1141z like a local. (Maguire) R. Malaysia Kota Kinabalu in Tagalog (probably) 8/18 at 1127 tune-in exc for several minutes. This is my key for DYLA 1555 and Indonesians. This stn is possible every AM-not heard every AM but possible due to the low path-297 degrees. (Seaver)
1525 USSR Khabarovsk w/good carrier and cl mx during 1315 fadeup 8/31; heard thru strong domestic slop. (Tomer)
1560 AUSTRALIA 2RE Taree NSW 104101100z. Lookint for 1ZH, N.Z. (Mag)
1570 PHILIPPINES DZHH Phil. Air Force Radio 1154-1231. (Maguire)
SOUTH KOREA HLDA Cheju Island at tremendous volume 1324-1330 9/8. Gave call letter ID at 1330. (Wilkinson)
1580 THAILAND VOA still strong 1945z. (Maguire)

FEATURE FILLER...
from NZDXRA-the USSR has erected 1000 kw on 647 at Iman, 500 kw on 1079 at Kyzyl, and 250 kw on unk greq at Ulan-Ude.
Via Arctic Radio Club... England BBC is broadcasting a "Open University" pgm on 647 after Radio Three closedown. France the new address for Limoges 791 is 32, rue Jean Janres, F-87000 Limoges. Guadelupe a new MW tx of 1 kw at Pitan St. Rose is to be completed later this year.
Morocco the EBU reports Agadir 935 on 936 and the new 773 stn on 774. However the editor reports that they are both on freq at latest check.
Nigeria address for the new 10 kw on 945 is 78 Lantors Road, PMB 1084, Abeokuta. V/s O.O. Apampa.Haiti new powers for R. Lumiere stns are 660 5 kw, 720 1 kw, 740 1 kw, 760 20 kw, and 780 .5 kw. Panama L.V. del Baru 1525 now 3 kw. Colombia 660 HJJM now RCN, ex Todelar, same HJES 980. HJTM R. Sonar 1260 ex 1100, HJLM 1310 now 10 kw, HJBV R. Canoa 1520 ex 1540. Paraguay R. Presidente Stroessner 885 ex 900, R. Paraguay 1305 power 25 kw.
Via Distance of Umea DX Club, 885 Paraguay above heard at 0333.

That's all for now, hope you WC'ers were satisfied with this column.

- Norm Maguire Honolulu, Hawaii SPR4, Sanserino Loop
Randy Seaver Chula Vista, Ca. HQ180, Sanserino loop
Randy Tomer Arcata, Ca. HQ180, Sanserino loop
Hank Wilkinson Santa Rosa, Ca. HQ180, SP600, Sanserino loop

INTERNATIONAL DX ACHIEVEMENTS

MORR MAGUIRE
2877 KALAKAUA AVE., APT. 703
HONOLULU, HI 96815

Table with columns: #, DXer, Location, T.V., CTYS, For., Oceania, Best. Lists radio amateurs and their achievements across various locations.

Oceania best without country shown are Australia. ## = Year started
T.V. = Total veries. (**) These members will be dropped from standings unless they update their totals. When updating, please give me the totals for all categories. Thank you. Hilding Gustafson added Benin for a new country. I managed to add Kuwait, Romania, Vatican, Rhodes, Monaco, Antigua and Indonesia. Next issue will feature South American totals and best verie. Good health and good DXing during the coming season. Aloha.

NRC Certificates

The National Radio Club issues two series of certificates free to all members, based on total verifications and total countries verified.
The total verification certificates are issued in increments of 500 veries (500, 1000, 1500 etc.) This award is issued on the honor system.
For the country certificates (issued for 25, 50, 75, 100, 125 countries verified), please send the awards manager a list of countries verified plus data for any station verified from that country.
The awards manager reserves the right to request any claimed verie (or copy of the verie) if there is any doubt that a member has a station verified. To date, we have not had to make any requests for proof of verification.

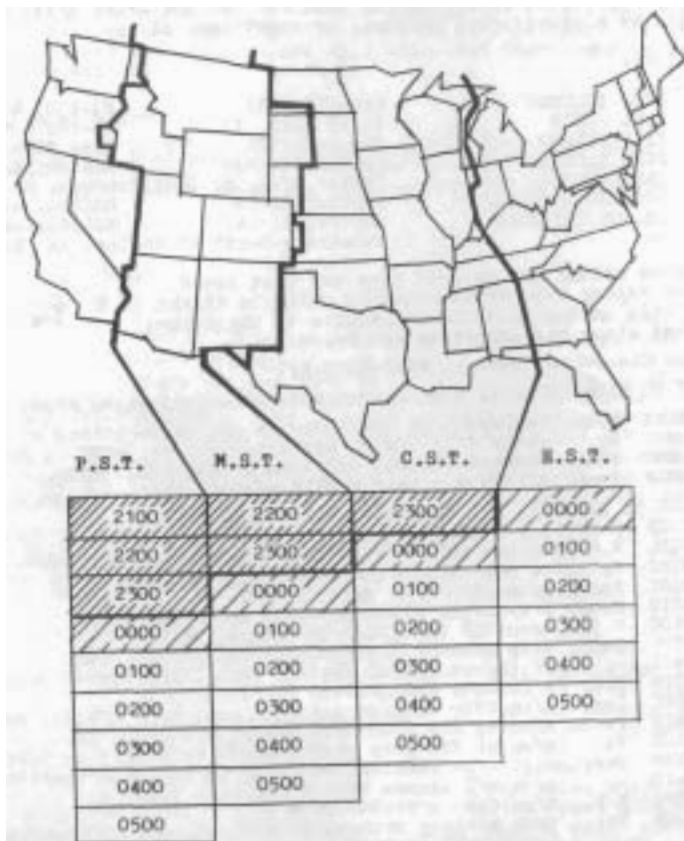
DX NEWS issue number 1, volume 45 will appear on October 10, with another issue on October 24. Thereafter we are on weekly schedule until Christmas/ New Year holidays. Tentatively, an issue during the holidays is planned. Contribute please!!!

CPC TEST TIME CONVERSION
Konstantine Rychalsky

The chart below was designed by myself to help decipher CPC Tests. Time, listed as ELT, is useless to anyone living in a different time zone. Conversion to Each Listener's Time is necessary. At a glance, the chart below will help, I'm sure.

Last season, there were a number of West Coast tests run towards sunrise time. Any chance of the test being heard in the East was nil due to stations who had already begun their broadcast day. Likewise, a test in Ohio at midnight will have a hard time reaching the west coast since stations there have not yet signed off the air.

In conclusion, the ideal time to schedule a test would be 0800 GMT, that is 0400 EST, 0300 CST, 0200 MST or 0100 PST.



NRC REPRINT LIST

PAST ARTICLES FROM DX NEWS

ANTENNAS

- A3 HIGH PRECISION DIRECTION FINDING ON THE BCB, PARTS I & II. G.P. Nelson. Part I uses Maxwell's equations to derive the equations describing MW direction finding with a loop. Part II is a non-technical discussion of how loop antennas operate on the BCB and how to get the most out of a loop.
- A4 A ZERO SHARPENING DEVICE FOR A BCB LOOP. T. Holmes. If you're having trouble obtaining sharp nulls with a standard loop, this simple device may help. The 1965 forerunner of the Pattern Controlled Loop.
- A5 A VERSATILE LONGWIRE ANTENNA COUPLER, R. Foxworth. How to get the maximum amount of signal from your longwire.
- A7 ROLL YOUR OWN (LOOP THAT IS...), D. Fischer. Loop won't tune the entire band? This article describes what's wrong and how to cure it.
- A13 LOOP DISTORTION: WHY GET SKEWED? G.P. Nelson. Discusses the origin of distorted loop patterns. Unique technical material not available elsewhere; a must for those interested in designing MW loop antennas.
- A14 PATTERN CONTROLLED LOOPS, PARTS I & II. G.P. Nelson. Introduction to the theory and practise of pattern controlled and cardioid loops for the BCB DX'er.
- A18 THE FLORIDA BEVERAGE, J. Conrad. Jerry describes the fantastic results with a Beverage antenna and compares it with others he's used.
- A19 THE CARE AND FEEDING OF THE WAVE ANTENNA, J. Starr. Practical construction hints for a Beverage antenna.
- A20 DOWN TO EARTH GROUNDS, G.P. Nelson. Hints on making low resistance ground connections for terminating a Beverage antenna.
- A22 A CALIFORNIA BEVERAGE, Fr. Jack Pejza. Another article describing the spectacular results obtained with a Beverage.
- A24 THE SUPER SIGNAL SNATCHER, D. Fischer. This article describes the theory of the Beverage antenna. Includes equations, tables and many diagrams.
- A25 THE VERTICAL PICKUP PATTERN OF THE MW LOOP ANTENNA. G.P. Nelson. Helpful information for those doing horizon blockage experiments with a loop antenna.
- A26 USING TWO ANTENNAS TO GENERATE ASYMMETRICAL RECEIVING PATTERNS, M. Levintow. Shows and describes a simple way to skew your loop's pattern to effect a null that will permit reception of a station impossible to receive on a figure 8 loop antenna by itself. Reading of reprints A13 and A14 are a requirement for the understanding of this technique.
- A28 A NEW MEDICAL BREAKTHROUGH FOR LONGWAVE TA'S, C. Clayton. Instructions on how to build an inexpensive loop antenna for LW.
- A29 REVIEW OF THE DYMEK DA-3 ANTENNA, Pete Taylor, with notes by R.J. Edmunds. Evaluates this recent development in BCB antennas and its application to MW DX'ing.
- A30 MORE ON BEVERAGE ANTENNAS, Wes Boyd. An update on Beverage antenna theory and application.
- A31 AN FET LOOP PREAMPLIFIER WITH COAXIAL OUTPUT, James Hagan. This article describes a highly effective balancing amplifier for the air core loop, useable with unbalanced receiver inputs, and featuring power tapped from the receiver and switchable attenuation controls to prevent overloading.

 Since we have a little space here, we'll include a little information on the current NRC membership dues. Yearly dues in the U.S. and Canada are \$15. Air-mail to Mexico and the Caribbean is \$18, Airmail to other areas is \$22 and surface mail to all other areas is \$18. New member fee is \$1. Checks and money orders (payable in U.S. funds only) go to NRC Membership Center, P.O. Box 118, Poquonock, Conn. 06064.

- A32 A WHIP ANTENNA COUPLER FOR USE WITH PORTABLE RECEIVERS, James Hagan. A simple construction project to inductively couple a whip antenna to the internal ferrite rod in many portable multiband receivers.
- A34 NEBE: THE NEBRASKA BEVERAGE, D. Fischer, C. Dabelstein, R. Mitchell. A discussion of the Nebraska Beverage and the results of its use.
- A35 THE LSCA-1. Ron Schatz. Complete construction plans for building the Loop Sense Cardioid Array. NOT A PROJECT FOR BEGINNERS! This antenna system is complex to build and operate. Should yield a unidirectional receiving pattern if operated properly.
- A36 A GOOD LOOP IS EASY (AND CHEAP) TO MAKE, J. Tull. Construction plans with photographs for a simple loop amplifier system.
- A37 THE WEDGE ANTENNA, C. Wolff. Plans for construction of a revolutionary alternative to the four foot box loop for those with limited space.
- A38 A STURDY AND EFFECTIVE FLOOR STAND AND MOUNTING ARRANGEMENT FOR LOOP ANTENNAS. M. Maloney. Still another method for mounting air core loop antennas.
- A39 A LARGE APERTURE FERRITE CORE LOOP ANTENNA FOR LONG AND MEDIUM WAVE RECEPTION, James Hagan. Details and theory for the construction of this new type of DX antenna.
- A40 A NOVEL APPROACH TO BUILDING YOUR OWN BCB LOOP, M. Maloney. New ideas for improvements in the ease of operation and sturdiness of loop antennas.

STATION LISTS

- L2 FREQUENCY CHECK LIST, J. Fela. Many U.S. stations run equipment tests at regular intervals and times; this is a listing of frequency checks that will permit many new loggings. Updated yearly.
- L6 THE CUBAMAITIEN LIST, R. Schatz. A list of all the MW stations in Cuba, Jamaica and Haiti.
- L14 BEACON STATIONS, compiled by Finlands DX Club and the NRC. Listing of CW aircraft beacons operating on or near the BCB.
- L15 THE TICA-TECA LIST, R. Schatz, K. Simon, G. Hauser. A list of the stations on the BCB in Belize, Guatemala and Costa Rica.
- L18 A SURVEY OF LA SPLITS, Ron Schatz. A list of all Latin American stations presently operating on split frequencies. Updated yearly.
- L20 BRAZILIAN INFORMATION, R. Veltmeijer. A current list of all MW stations operating in Brazil.

RECEIVING EQUIPMENT AND TECHNIQUES

- R1 SPURIOUS SIGNALS AND SPURIOUS SIGNALS REVISITED, R.J. Edmunds and G.P. Nelson. Many DX'ers hear stations on frequencies where they don't belong. These articles describe the causes and cures of spurious MW signals. Especially valuable if you have powerful local stations nearby.
- R2 SINGLE SIDEBAND RECEPTION ON THE BCB WITH MECHANICAL FILTERS, G.P. Nelson. Few commercial receivers covering the MW band have adequate selectivity to cope with BCB interference--especially in the presence of powerful local stations. This article explains how to fit mechanical filters to an existing receiver for the ultimate in adjacent channel rejection. This technique is widely used by many top MW DX'ers.
- R3 SUBAUDIBLE HETERODYNES ON THE MW BCB, G.P. Nelson. Details on a technique which permits the MW DX'er to detect and characterize signals too weak to hear at the time; also allows the DX'er to count the number of stations on a channel; even if no programming is audible and permits direction finding on channels with several stations present.

- R5 THE TRACKING PROBLEM AND HOW TO CURE IT, G.P. Nelson and T. Holmes. Many excellent receivers are poorly designed for MW DX operation; this article describes one of the most common design faults and how to cure it. Very useful if you have strong locals.
- R6 ELECTRONIC VERNIER TUNING, R. Moore. Detailed instructions on how to fit a varactor to a MW receiver to provide fine bandspread.
- R7 MECHANICAL FILTERS FOR THE HQ-180, J. Starr. Complete details on the conversion of the popular Hammarlund HQ-180A receiver to mechanical filter operation. Order with R2.
- R14 UP THE CARRIER, w. Bailey. Dig the weak DX out of the mud with this form of exalted carrier reception.
- R15 PRECISION FREQUENCY MEASUREMENT, Ron Schatz. How to use the frequency counter, an instrument now within the budget of a DX'er.
- R17 THE PMS-3 FREQUENCY MARKER STANDARD, R. Foxworth. A review of operation, how to make the proper connection to the receiver, and some modifications incorporated by the author to permit full use of the unit's capabilities.
- R18 SINGLE SIDEBAND RECEIVING ADAPTERS, T. Sundstrom. How to sharpen your receiver's IF bandpass using a B&W #370 receiving adaptor.
- R19 REVIEW OF THE AUTEK Q-BOX, T. Sundstrom. Describes the uses of this new noise filtering device and its applications in MW DX.
- R20 REVIEW OF THE HEATH SB-620 SPECTRUM ANALYZER, R. Foxworth. A comprehensive and detailed analysis of the unit's operation and uses as related to MW DX'ing.
- R21 THE WORCESTER LONG DISTANCE AM RECEIVER, J. Worcester. A stage by stage description of the construction, theory, and circuitry of a new type of AM DX receiver.
- R22 BUILD YOUR OWN AUDIO FILTERS, P. Sullivan. A somewhat technical theory and construction article on inexpensive homebrew audio filters for the DX'er.
- R23 THE RUSTRAK R-88 RECORDER, R. Schatz. Explains the operation and use of this versatile chart recording marker and its applications to the studies of propagation in MW DX'ing, and gaining insights into potential loggings.
- R24 A BRIEF REVIEW OF THE AUTEK QF-1 AUDIO FILTER, C. Hutton. A non-technical review of this new noise and interference filter.
- R25 A FREQUENCY COUNTER FOR RECEIVER TUNING, R. Foxworth. A very thorough paper on the new digital readouts and what to look for in the various models. Discusses the technical theory of these devices and provides circuitry to enable the experimenter to build a counter for use as a "digital dial". Very thorough.
- R26 FURTHER RECEIVER HOT RODDING HINTS, C. Hutton. Tells what you can do to further improve the performance of even the best commercial receivers, and some problems with the older receivers being used.
- R27 RECEIVER/ACCESSORY INTERFACES MADE SIMPLE AND CHEAP, R.J. Edmunds. A discussion of methods of interconnecting DX equipment.
- R28 THE LYONODYNE CRYSTAL WIRELESS RECEIVER, R.W. Tuggle. The concepts of vintage crystal radio are incorporated in these detailed construction plans for this simple receiver, offered as a "sporting" alternative to modern receivers; yet it has the potential for real DX.

SEND REPRINT ORDERS AND PUBLICATIONS ORDERS TO NRC PUBLICATIONS CENTER, P.O. BOX 401, GALES FERRY, CT 06335.

DOMESTIC DX

- D1 1570-1580 STATION LOCATION MAPS. Two maps pinpointing the location of all domestic stations operating on these two superb sunrise/sunset skip channels. A valuable aid to the sunrise/sunset DX'er.
- D2 IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS, J. Murley and R. Schiller, respectively. If you are unhappy with your domestic QSL returns, read this article on the station's attitude toward reception reports. Also, veteran DX'er Ron Schiller gives some useful tips on increasing your returns.
- D3 CANADA'S WILDERNESS RADIO: THE LPRT, P. Taylor. In depth study of those 20 and 40 watt Canadian stations that you hear, but don't understand. A must for the domestic DX'er.
- D4 WHAT IS A PRE-SUNRISE AUTHORIZATION? R.J. Edmunds. Some U.S. stations are authorized to operate with powers such as 14.3 watts during certain hours; this article explains why.
- D6 CLEARS AND CLASSIFICATION, M. Collins. Explains how the FCC allocates channel assignments and station power in accordance with the NARBA treaty.
- D8 NIGHTTIME LISTENING, M. Collins. A variety of programming can be heard on the high power clears which cover most of the nation at night.
- D9 NETWORKS, M. Collins. Explains how the four major networks operate.
- D10 THE NSP SITUATION, J. Starr. A look at this problem from the broadcasters' side of the fence.
- D11 DX FROM THE TWILIGHT ZONE, P. Sullivan. For various reasons some stations are audible at sunrise or sunset. This article tells the reasons.
- D13 GRAVEYARD DX, R. Foxworth, with addition by M. Levintow. This article tells you how to DX those cluttered local channels and get results.
- M3 MODULATION ARCING, J. Starr. Describes a frequent but rarely discussed cause of ECB interference originating at the station that can wreak havoc on the MW band.
- M4 SUNRISE-SUNSET TABLES, G.P. Nelson. These charts permit the DX'er to determine accurate time of sunset and sunrise at any point in the world on any particular day. Very useful for international DX'ers.
- M5 QUASIMONTHLY PATTERNS IN ATYPICAL MW DX RECEPTION, G.P. Nelson. A large body of data on TA reception gathered by R. Wood in England. Information is analyzed in an attempt to prove or disprove the Lunar Phase Theory.
- M7 UNRESTRICTED RADIATION, G.P. Nelson. Discussion of carrier current stations and how to hear them.
- M8 RF POLLUTION, G. Hauser. General discussion of the radio interference problem and steps necessary to control it.
- M9 PATTERNS, PARTS I, IIa AND IIb. P. Hart. An understanding of the directional patterns used by North American MW stations is vital for the active domestic DX'er. This series of articles explains in authoritative detail what patterns mean and how the DX'er can fatten his log by understanding them.
- M27 PRECISION FREQUENCY ANALYSIS, R. Schatz, with notes by R.J. Edmunds. A discussion of the technique of analysing the characteristics of a stations frequency over the long term as an aid to the identification or elimination of stations as possible DX catches at any given time.
- M29 MORE ON HOW DIRECTIONAL ANTENNA PATTERNS ARE PRODUCED, Wes Boyd. Supplementary information to the articles contained in the 1975 edition of the NRC Night Pattern Book.

FOREIGN DX

- F3 PORTUGUESE FOR DX'ERS, R. Schatz. Describes the important and unusual features of this language; a must if you DX Brazil.
- F5 HUNTING THE LATINS BY MUSIC, R. Schatz. Describes the various types of Latin American music indigenous to various countries and tells how to ID LA's using this information.
- F8 BOTTOM DX, Clarence Freeman. Quite a number of stations operate below 540 khz. This article tells how to modify your receiver to hear them and lists the stations.
- F10 TRANSPACIFIC RECEPTION DOES EXIST, J. Murley and G.P. Nelson. A highly experienced West Coast DX'er gives a full rundown on how to hear, identify, and QSL transpacific stations; much practical information.
- F11 DX'ING POLYNESIA AND BEYOND, J. Murley. Very detailed account of the stations in the Pacific that can be heard in North America.
- F13 THE ODDS ON EVEN TA'S, R. Schatz. TA's can be heard on some of our 10 khz channels; find out which ones and when to listen.
- F14 DX'ING RARE AFRICANS....SYSTEMATICALLY, R.J. Edmunds and Page Taylor. A country by country rundown of where and when to listen for the hard to hear stations in Africa.
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- P6 AURORAL EFFECTS AND THE 1969 TRANSATLANTIC LISTENING TEST, G.P. Nelson. Brief but simple description of how the geomagnetic and auroral phenomena control TA reception from various stations. Best general introduction to MW auroral effects.
- P7 THE AURORA OF NOVEMBER 6-9, 1970, G.P. Nelson. Traces a classic MW auroral attack from its origins on the sun to its effects on MW reception; a must for understanding the auroral effects on the MW band.
- P9 SKYWAVE OR GROUNDWAVE RECEPTION? G.P. Nelson. How to tell whether the signal from a station you are listening to is arriving via a groundwave or skywave or both.

MISCELLANEOUS ARTICLES

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- P10 A BEGINNER'S GUIDE TO THE IONOSPHERE, Fr. J. Pejza. Radio wave propagation is influenced greatly by the conditions in the ionosphere. This article explains the processes which change the ionosphere and the effects of these changes on radio waves.

- P11 THE LIMITS OF MIDDAY MW DX, G.P. Nelson. Comprehensive article describing the factors which influence radio wave propagation and reception during the late morning and early afternoon hours.
- P12 LIMITATIONS IN THE USE OF THE A-INDEX, G.P. Nelson. While the A index is a valuable tool for MW DX'ers, it is easily misinterpreted. This article shows why.
- P13 BCB RECEPTION DURING PERIODS OF HIGH AURORAL ACTIVITY, G.P. Nelson. Describes the author's research into the effects of the aurora on MW propagation.
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- P19 OBSERVATIONS OF TRANSATLANTIC MEDIUM WAVE RADIO SIGNALS, C.W. Bailey. The results of a lengthy survey of TA receptions made over a one year period.
- P20 PROPAGATION AT MEDIUM WAVE FREQUENCIES, P. Sullivan. Discusses some aspects of the factors that control signal reception on the BCB.
- P21 FACTORS OF MEDIUM WAVE PROPAGATION, P. Dinning. Further discussion of the nature of BCB propagation.
- P22 DOMESTIC PROPAGATION-ANSWERS TO FREQUENTLY ASKED QUESTIONS, R.J. Edmunds. A brief discussion on some of the propagational factors that affect domestic reception.

RECEIVER REVIEWS

- RR4 HEATH GR-78, R. Schatz.
- RR5 BARLOW-WADLEY XCR-30, M. Hardester.
- RR9 A NONTECHNICAL REVIEW OF THE WORCESTER LONG DISTANCE RECEIVER, J. Starr. A user's critical commentary on this revolutionary receiver.
- RR10 MCKAY-DYMEK DR-22, J. Clements. A detailed, non-technical pre-production review of one of the "new breed" of receivers; mentions features, performance and how it measures up to the receivers now in use.

PRODUCT SUMMARIES

- PS1 DRAKE SSR-1 RECEIVER, R. Foxworth.

UPDATERS TO THE NRC LOG AND PATTERN BOOK

- UDL A year's set of updaters to the NRC Domestic log is available to members for a flat fee of \$1.00; non-members \$2.00.
- UPB A year's set of updaters to the NRC pattern book is available to members for a flat fee of \$1.00; non-members \$2.00.

DX-PLANATION FLYER

A two-sided bookmark type flyer explaining the birth of DX'ing, how the NRC was formed and the importance of QSLs to DX'ers. Useful for trying to obtain "tough" verifications and as an aid in arranging DX tests. 50 flyers for \$1.00.

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This spiral-bound volume contains listings of all U.S. and Canadian AM stations including locations, addresses, powers, antenna operations, networks, schedules and other useful information. Cost is \$6.25 to members and \$7.50 to non-members.

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This spiral-bound volume features the nighttime directional antenna patterns of Canadian and U.S. stations on map pages of 11 x 14 inches. These patterns are drawn to scale from official government sources. Commercial publications of this sort cost more than ten times as much for this most valuable DX references. Cost to members is \$6.50 post-paid and to non-members \$7.50 in U.S. and Canada. (New edition 1975)

ANTENNA REFERENCE MANUAL

This manual is a compilation of numerous articles on the subject of antennas for MW DXers which have appeared in the pages of DX NEWS over the past several years in one handy volume. Includes data on air- and ferrite-core loops, antenna tuners for longwires, and beverage antennas, along with various coupling devices. 60 pages, 5½ x 8½ booklet format. \$2.25 in the U.S. and Canada.

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This booklet is designed to assist the novice DXer in pursuit of the hobby. It includes introductory articles on foreign and domestic DX-ing as well as related topics. Included are articles on reception reports and safety and preventive maintenance of your DX gear. All members who pay the New Member Fee automatically receive a copy of this booklet. For non-members the cost is \$1.25 in the U.S. and Canada.

RECEIVER REFERENCE MANUAL

This manual is similar to the above manual on antennas, except that the subject is DX receivers. It includes useful articles on receiver modifications and accessories, and reviews of many of the commonly used BCB DX receivers currently available. A must for the serious DX'er/experimenter. 72 pages, 5½ x 8½ booklet format. \$2.50 U.S. and in Canada.

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MUSINGS

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

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

Hi again, gang. Summer '77 is about over & I sure am looking forward to a productive DX season this Fall. I just got the word Thursday that I'm finally going to return to the first shift after 16 months on second. Back to normal again, SRS & SSS DXing. I've got plenty of targets to listen for. Recapping the Summer, the ANARC in Schaumburg, IL was the only GTG to mention. It was nice to see Alan Meyer (SW), Rich Eddie, Gary Atkins, Mike Good, Rich Pistek, John Zondlo, Mike Hogan plus a few others I can't remember. It was a real combo of AM-FM-SW-TV etc. so you had to fish around for MW DXers. It was plenty warm, too, with the humidity well in the 70-80% range. I spent my Summer vacation in Galena, IL & Dubuque, IA, where I enjoyed five days of sight-seeing & dial twirling. Daytime stations by states: IA-24, WI-25, IL-28, MO-3, MN-WCCO, SD-WNAX. Dubuque stations WDBQ-1490 & KDTN-1370 play a lively type of mx. WDBQ is T-40 w/the XR on the Mississippi River shore in East Dubuque, IL in sight of our motel 12 miles East, near Galena. KDTN, serving the Tri-State area is sort of Uptempo MoR with much interest in local SX. Their LSS pattern change was very obvious at the motel. They protevt WSPD & four others. No wonder I've heard 'em only once. Labor Day weekend I took my family up to Milwaukee for two days. Our motel in West Allis was practically next door to soul station WAWA-1590. Their two towers run E-W. I had a pleasant visit to Bob Wessolowski's Saturday night. He mentioned his problems with the Chicago stations up here. I was really stunned to hear WJPC-950 & WVON-1390 so strong up there. Wisconsin has several fulltime stations, more than Illinois I believe, but man are they difficult back home! Sunday night 9/4 after WJOB-1230 s'off the only thing I could make out of the mess was NBC NY at 1. Only possibility was WJON-FL, though no SID was heard. So I'll be SRS DXing once a ain tomorrow AM, I'm happy to say. Only two subway cars of 754 left to go for N.Y.C.T.A. Amen. I don't believe Pullman Standard will ever have as big an order again. Oh well. Looking forward to more frequent DX NEWSes as time rolls on. I sure like the New Look. So, best of DX from the Ukrainian with the TRF & Diet Pepsi. 73s.

MIKE HEPPE - Bx 7 - Houston, MS - 38851

A few weeks ago I asked "What is an FRG-7?" Just by coincidence I received a spec sheet from Yaesu. Thanks to the member who put my name down or thanks to Yaesu. It is a good looking rig. Now someone tell me how it performs, by Musing, Letter, Domestic DX, or International club log listing. I have not yet received my R-392. I'm getting hacked off. I haven't yet been able to try out a DX session with my TRF but I did pick up Moulton, AL test u/WCKY-1530. I work at night and when I get home, I am wushed. I turn on the EZL mx to put me to sleep. Dog-gone rock mx will have me dancing in bed. How many of you tried out the calculator trick? It works, don't it? I don't have a copy of the international logs yet. What station is on 650 announcing "R. Seiscenta"? I have lost Mr. Sanserino's address, if someone would be so kind and give it to me. Good catch, 500W, El Paso station. When is the nest But & Sell column coming out? So we can clean up our shack for more stuff. Friday morning I received my R-392 and got my SP-600-JX out of the shop. The R-392 is great fir splits. My DX orral is building up. I have (2) R-392, SP-600-JX, TRF, SM-1, and many bird traps, I mean, antennas. 3's.

ERNE COOPER - "The Cape Tip DXer" - 5 Anthony Street - Provincetown, MA - 02657 617-487-9337

Well, I had two great times, at the IRCA and the NRC Conventions, especially at ours, and a tremendous job was turned in by the NERDS, and thanks to them for this wonderful weekend, including ferrying me to and from the airport! You were GREAT, guys! DX and veries are at a standstill, alas. I've been a-tumin', as follows: MM 8/29- Unn WJDY-1470 r/c-TT 12:15-12:30, strong, on top. UnID-TT -1450 @ 12:31. And, unID-SS-1465a 12:43 until 1:51 s'off, but not loud enough to get the ID or even the country; I suspect 'twas Costa Rica. Mauritania-1349 noted @ 2:39m but too late to hold 'em for a report - they had AA-chanting. 8/30- unID poorly-modulated SS on about 1413kc/s. @ 12:48, soon lost to static. UnIDing TT on 1440 1:07-1:10, 'n a nother one on 1500 @ 1:15-1:31, no announcements. WKW was off around 1. 8/31- WKW again off, also WGSN-970 seems to have quit ANing, hooray for them! UnID-TT-1470 @ 1:27-1:32, they IDed but I couldn't catch it here. 9/8- Low-pitched hum on 1560 @ 1:20 @ on. 9/10- Unn CKAP-580, w/EZL, atop 580 @ 2:43am - they ID only as "CKAP, 580." S. 9/11- TT on 1140 @ 12:43, could have been WRVA which is silent SMs now. A fund-raiser noted on 1490 giving the phone number of 243-8030, I believe 'twas only WSPer WBCB-FA. MM 9/12- The Europeans were in this mornin', but nothin' new noted. UnID TT-1080 u/WTIC @ 12:37. Joe Fela, who called up Saturday night, predicted WNEC'd go MSP - well, the Swami of South Plainfield hit it right on the schnozz - WNEC-660 was indeed AN this AM! Just what NYC needs, of course. WJQ -1590's AM was begging for phone calls and resorting to playing r cords at 1:12; they had s'off by 2:30, next look-in on that channel. WJRL ran till 2:30 today, then off. Unn KRNG-740 EF/TT/OC, w ID @ 3:03. Un. Aerpuerto-1160, recently verified, has gone AN, and had KSL pretty well subjugated this AM. 3. So, a fortnight with no new ones. I read my "obit" in last issue - have no fear, man - I've had this for some ten years, only just now it has been IDed by the local sawbones. I'm actually better off now, for now I have medication to help alleviate the condition. I'm gonna have my GTG earlier this winter to avoid religious holidays and winter snow and ice and wind - it will be on Sat. 11/26, two days after Thanksgiving!

WARREN E. GREENBERG - 145 Cottage Road - West Roxbury, MA - 02132

As of date I still haven't heard the state of Vermont except when I was passing through Vermont on my way back from Niagara Falls and Upstate New York. While in NY I didn't get a chance to get any DX done, but when I was in Atlantic City, NJ, I got some DX done. While in New Jersey the RX I was using was a Realistic Patrolman. The following stations were heard: WHLI, WUJD, WFIL, WBEZ, WQWO, WABC, WCBS, WNBC, CGF, WBT, WVIC, WLS, WINS, & CFM. Within the past few weeks I started getting back to BCB DX & leaving the VHF DX. This Summer on VHF there wasn't that many new stations heard. The RX I use is a Bearcat IV four-band scanner. The only new station that I got was the Brooklyn, NY Fire Department one night for several hours. (Musta been a beaut of a fire, Warren! -ERC) They were coming in w/a good signal right over the Providence RI Fire Dept. But besides the Bearcat IV for DX I use it for monitoring the local fire departments, as follows: Ch. 1,2,4,5 Dedham-Needham-Milton-Quincy Fire, Metro Fire Control, Somerville Fire & Providence Fire. I was thinking of coming to the Cape for a weekend this Summer but as of date I haven't had the chance to get there. But sometime in the near future I will be getting to the Cape. Starting this coming Thursday I will be going back to school & that will be cutting down on my DX time at night except on Friday & Saturday nights and once in a while on a Sunday night when there is a three-day weekend. So until the next time, 73.

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

Well, my 47th DX Season has arrived & I have plans to spend more time at the dials this season after "letting up" a bit the last half of last season. I have noted an increase of foreign stations in the Pacific, Asian and Latin-American areas that are on "odd" & split frequencies so that means an increase in the possibilities of snagging a few new ones. Gene Allen beat me quite badly last season by verifying five new countries; Don Reynolds got four new ones; me: I got one and that won't do! I have some catching up to do. 8/22, 9/5 & 9/6 were rather good for TP reception. Details were sent to Chuck Hutton. There seems to be pro and con opinions in regards to the newer "modern" receivers and "oldies" such as the SP-600, HQ-180, 388/URR, 390/URR, etc. on BCB performance - especially on sensitivity and selectivity. I would appreciate hearing from any BCB DXer who uses (or has used) an 390A URR, or a 51J4. I had a surprise visit from Don Reynolds on Labor Day. Needless to say we had a fine foreign DX bull session. Don used to win most of the NRC Foreign Contests back in the 50's and 60's. Those were wonderful days! Don can create a lot of enthusiasm in this hobby when he participates. Good health and good DX to all. 73s.

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

Checking frequencies to fill in the 24-hour log is bringing me other stations not IDed previously. Tues. 8/23 @ 6:32 EDT on 1130 brought me KWKH farm-NY w/CKWY. At 7 on 1020, KBCQ s/on w/50,000 day & 10,000w nights; CP for 50,000 nights is not completed. No verie yet from their 4/25 DX TEST. Back to 1130, 3RDU using APR NX @ 10:30am 8/23. On 550, KDAC goes off at about 3:15am each night except Monday; not heard then, 9/5. Sat. 8/27 & Sun. 8/28 I was in Ireka for Clarence Freeman's daughter's wedding; he DXes occasionally. MM 8/29 on 580 @ 4:13 I heard "Whitecap" with the New York line open; possibly WIEW. No. 500 for Red Bluff was KHEH-1370, Tulare, CA @ 9:59 Thu. 9/1. KOLQ-920 uses NRC NX; same AM. On 1350 KRLC used UPI NX @ 3:04, 9/2. When CBU-690 s/off @ 4:03 the tone started, w/XETRA. On 540, the same tone was heard @ 4:04. Sat. 9/3 @ 4:12 on 1380 KZUL said "testing", off 4:17. Two new ones on 550; at 8:47 CKPG, Prince George, B.C. on top, then @ 9:01 KMWI started the TP session. At 9:34 on 690 KKKU IDed, w/XETRA. Sun. 9/4 @ 3:35 on 750, KPQD IDed & gave time as 10:35pm. At 9:31 on 700 there was mx: KEFR (?) or JOFB (?). MM 9/5 on 1080, KWWJ was still on @ 3:53 & 4:12; not off @ 3. On 1110 KEND had a local Muscular Dystrophy program @ 3:55 & 4:13. From 9:30 9/5 I heard foreign languages on 700 (JOFB?), 770 (JOUB?), 840 (HLKY?) & 880 (JOFP?). Tues. 9/6 @ 4:06 on 860, CFPR, Prince Rupert, B.C. IDed clearly; off @ 4:08, on @ 9, as announced. Tone went on when they went off. Come on, you West Coasters; tune those sets on around 5:30 PST, catch those TP's, report to Ernie, so we readers can try for them also

RUSS EDMUNDS - Bx 127 - Bonton, NJ - 07005

Greetings & solutions. I have been back at the dials at SRS again, but most stuff is ~~new~~ except for new tapes, and call changes. I did add the WAIN-1270 r/c on 9/3, though, and WLCM, Lynchburg, VA, the same AM. A few thoughts: Maybe we can make CPC better by establishing a fund for donations for postage so that those of us who have the time and desire but not the money can withdraw for postage expenses. I'll be sending a batch out soon at my own expense, but when they're out, that's it for financial reasons. Another idea: If there's sufficient interest, I'll sponsor and manage contests to confirm r/c's per the list & work out a scoring system to go with it to determine a winner. Also maybe one devoted to logging the ACTUAL s/on times of daytimers, or to provide sked change info for the Log or for GYers. How 'bout it, gang? Any thoughts? I won't go ahead unless I know there's some interest. The last contests I ran wiped out for lack of interest. I don't consider three or four people per contest worth while, & if there's such a groundswell out there, let's see some action, hi! On another note, what ever happened to the days when two or three local groups of DXers COMPETED in Musings for the Convention and publicity for the FOLLOWING year? We've had no serious competition since 1971-72, & several times there was only one bid when we got to the Convention. Let's think about that for the 1977 convention. Anybody want to start vying for it now? 73's.

1977-1978 FREQUENCY CHECK LIST

JOE FELA, 150 Robert Place, South Plainfield, NJ, 07080, wants any and all corrections, additions, deletions, and changes to the NRC/IRCA Frequency Check List, as he is about to prepare this valuable piece of DX information. LET HIM KNOW OF ANY CHANGES YOU KNOW OF NOW!

KOTHBALL MEMORIES

CHAPTER XVI - WHEN DAN PHILLIPS WAS 75 YEARS OLD.

March of 1979, as a 75 year old beginning D'er, I happened to hear KANV signing on one Sunday morning. A week later I happened to be listening at the same time to their s/on again. This time after having sent them a reception report, I was surprised to hear the announcer, Chuck Taylor, saying, "I want to say hello to my only listener, Dan Phillips, in Clinton, Tenn. Dan, if you're listening call me long distance collect." You can imagine my surprise, and you can imagine my parents' surprise when I awakened them at 5 a.m. to ask for permission to use the phone by their bed to call an announcer long distance collect in Jonesville, La. Shortly thereafter I received this verie from KANV: "Dear Dan, Just received your most welcome reception report and thought I would drop you a line. All the information which you sent was correct and I did have a... of a time getting the SSB on. Of course at that time of morning I have a hard time doing anything. We are a 500 watt daytime station and if you promise you won't tell anyone, a month ago we were not getting out 40 miles but we hooked our ground lead onto a 200 foot deep well with a metal casing and since then we have been receiving letters from Texas, Alabama, Illinois, and now from you. There was not a great demand for a show that early daily but I shall continue to warm the airwaves with sounds starting at 4:00 am CST each Sunday with the hopes that I will have a faithful listener in Clinton, Tenn." Yours, Chuck Taylor.

Another of the fascinating DX moments occurring in my life during the 50's was a visit from a well known international D'er known as Lefty Cooper. Lefty had come to visit me in Clinton, Tenn. while a friend of his visited in Knoxville, Tennessee. Needless to say I was thrilled to have an international D'er of known repute to visit me. I knew now that I would have the opportunity to ask him personally if it was true that he had really heard KFI in Brooklyn, N.Y. As we sat at the dials I was amazed that he could understand Spanish. He would tell me what DX we were hearing. A couple of days later we took an excursion to visit some of the nearby stations that he needed veries from. The best visit we had was at WLAB in Athens, Tenn. The announcer, Johnny Perkle, later put on a special DX program for us. Other visits were to WABC-1340 Cleveland, Tenn. and WDEH-800 in Sweetwater, Tenn. This visit, at dinner time, was especially interesting since the DJ was eating dinner, playing records, talking to us with a mouthful of food, and answering the telephone. Yes, those were the good ole days. What ever happened to Lefty Cooper? The rumour running rampant nowadays is that he is the alias "Cape Dip DXer". Could it possibly be true? - DAN PHILLIPS.

NEXT WEEK WE'LL REPRINT A MUSING FROM DAN PHILLIPS FROM THE DX NEWS OF 11/14/59.

JUAN GUALDA - 241 N.W. 179 Street - Miami, FL - 33169

I just got back from Silver Spring, MD. The DXing up there was pretty good but I heard the same stuff up there I did down here. A few days ago something ~~happened~~ to my TRF. Some girls I knew had some water balloons and threw them at me. I had the TRF in my hand. The water balloons hit me and got the TRF and me all wet. When I turned it on, all I heard was a faint cackle. I felt very depressed. I took it apart and dried it off but it still didn't work. But the next morning I turned it on and it worked. I was very happy. Anyway here's all the new stations heard: WBAL-1090 WNUW-1400 WTEB-1400, WCAU, WOR, WABC all heard in Maryland in the day. Well, I haven't heard too much because I haven't listened since I came back from Maryland. Well I better get going. 73's till next time.

RUSS EDMUNDS - Bx 127 - Bonton, NJ - 07005

Well, the thunderstorms have abated somewhat, but not much in new stations to report. Only goodie of note was WAGE-1290, Leesburg, VA under the mess at s/on 8/28 @ 6:05. Most of the rest has been new calls for old stations. I hope everyone enjoyed the Convention, and sorry I couldn't be there. Depending on where the next one is, I expect to make that, assuming it's East of the Mississippi and not more than 800-900 miles away, hi. The 1976-77 DX Season ended 8/31 w/a pretty good showing from this shack all things considered. Almost all were either SRS or SSS receptions. Total new stations heard: 85, new veries-3 (oh well, hi); new tapes: 117; new state logged: 1 (WY); new countries logged: Caymans, Grenada, Sta. Lucia; and three new countries taped. With a bit of luck, I may even exceed that this year. Time permitting, I'll even be back to IDDX again, hi. Best times for international DX unfortunately don't correspond with my optimum times to be able to DX at this point. To all those who have the new monographs list, beware, there's an error in the description on Z-142. It should read "A comparison of 3 of the most popular antennas...". That means NRC 4', 2', and Space Magnet loops. Unfortunately that one word makes a big difference, hi. I guess I'll now get back to logging some more of these call changes on some fairly regular regionals and SSSstuff, hi. 73.

ANDREW F. RUGG - 668 De Gaspe - Aot. 408 - Ile des Seours, Quebec - H3E 1H9

No new DX to report. On 8/24 the alarm woke me in plenty of time for the 6:55am flight to Dolbeau. I tried 15 minutes of DXing from 4:45 to 5. At 4:56 I think I had needed WDEE-1500 but they were drowned out by WTOP's 4:58 s/on. On ERC's tip I tried for AN CULV-1360, but there wasn't a peep beneath the ubiquitous WDRG. ~~Anyway~~ with all the call changes in New England (WACQ, WUPE, WIXY, WMLB) I should have some new ones to report next time. 73.

PETER V. TAYLOR - 2614 Jackson Street - San Francisco, CA - 94115

KFAX-1100 is now 50kw U-4; SP Tuesdays 4-8am EDT. In Denver, I heard KQMP-1010, Brush, Colo. on RS. Cheers.

AS THEY ASK IN SAVANNAH, TENN., "WORM"-1010. "WHERE'RE OUR REGULAR MUSERS?"

MUSINGS deadlines are exactly TWO WEEKS before the masthead dates listed in the last DX NEWS, except for the November 7 issue, which has an advanced deadline date in Provincetown of Sat., Oct. 22, due to the Federal holiday on Mon., Oct. 24 (Veterans' Day), on which no mail is delivered. Now, in this issue, we have exactly T-E-N Musings for you, from 700 members, which is a representation of about 1/2 of the membership! As Editor, I feel very bad about sending in so little copy to Louisville HQ, but I can't give you what you don't send me, so I'm asking you, as a loyal NRC'er, won't you please try to devote about a half hour to your Club by submitting your latest dialings in the form of a double-spaced Musing? To get only ten for an issue which is two weeks after the last one is utterly ridiculous, don't you agree? So, let's see if you're interested enough in this Club to do a little something for it and your fellow members by Musing for the next issue after you read this! EVERYONE who is NOT in this issue has LET THE NRC DOWN. Up with NRC, Up with Musings, men! Let's get with it!

GET-TOGETHER. We are planning to have one here at 5 Anthony Street, Provincetown, Mass. at the Tip of the Cape on the Saturday after U.S.A. Thanksgiving Day, which is Sat., Nov. 26, from noon to 6 p.m. or thereabouts. Everybody will be welcome - a \$2 donation for refreshments will be gratefully accepted. Please let ERNIE COOPER know if you are coming to this powwow, and feel assured that YOU are most welcome!

FREQUENCY CHECK LIST. We mentioned it at the foot of one of the pages, but we want to emphasize this. Joe Fela, who has been preparing these f/c lists for the past many years, asks that if you know of any checks not now listed, or see some that have changed, or note others that no longer apply, to please let him know very soon. He also suggests you call your local stations to find out when they run their frequency checks, so they may be included for your local is somebody else's great DX catch, you know. Even if you have only one station to mention, it will be valuable information for Joe. His address is 150 Robert Place, South Plainfield, NJ, 07080. Do it now, lest you forget. He who hesitates is lost.

Text of special citation presented to Ernie Cooper at NRC Convention.

NSN Great Seal of the State of Nebraska NSN
 J. James Exon, Governor Theodore W. Metcalfe, Chief Admiral

THE GREAT NAVY OF THE STATE OF NEBRASKA

To all who shall see these presents GREETINGS

Know ye, that reposing special trust and confidence in the Patriotism, valor, fidelity, and abilities of ERNEST R. COOPER

and knowing him to be a good fellow and a loyal friend and counselor I have nominated and do appoint him an Admiral in the Great Navy of the State of Nebraska. He is therefore called to diligently discharge the duties of Admiral by doing and performing all manner of things thereto belonging. And I do strictly charge and require all officers, seamen, tadpoles and goldfish under his command to be obedient to his orders as Admiral - and he is to observe and follow, from time to time, such directions as he shall receive, according to the rules and discipline in force during the period of his good behavior, and the pleasure of the Chief Admiral of the Great Navy of the State of Nebraska.

Given under my hand in the City of Lincoln, State of Nebraska, this 12th day of August, 1977 in the year of our Lord. (signed) J.J. Exon, Governor.
 State seal affixed.

Harry J. Hayes
 Star Route, Box 226c
 Gouldsboro, PA. 19424

GY ACHIEVEMENTS

I hope the brand new MW season is treating everyone well. The new season should get everyone in the mood to go after those class IVs and get those new reports or updates to GY Achievements. The column has turned up a few new faces, perhaps at my urging from last time. * denotes pre-1960 logging

1490

st. DXer & loc.	station & loc.
2625 Gene ALLEN Vallejo CA	WFPB Miami FL*
2585 Gene ALLEN Vallejo CA	WCTC New Brunswick NJ*
2410 Ernie COOPER Brooklyn NY	KONP Port Angeles WA*
2370 Ernie COOPER Brooklyn NY	KPUY Puyallup WA*
2300 Stan MORSS Bradford MA	KONP Port Angeles WA*
2300 Stan MORSS Bradford MA	KPUY Puyallup WA*
2225 Bob KNOX Newton NJ	KUCB Blythe CA*
2200 Norman MAGUIRE Albuquerque NM	WGUY Bangor ME*
2140 Frank WHEELER Erie PA	KONP Port Angeles WA*
2130 Frank WHEELER Erie PA	KBPS Portland OR*

- 1860 Norman MAGUIRE East Hartford CT
- 1860 Bob KNOX Newton NJ
- 1795 Geoffrey PARRISH Deerfield IL
- 1600 Ron SCHILLER Monmouth Beach NJ
- 1470 Don KASKEY Galva IA
- 1440 Don KASKEY Omaha NE
- 1235 Jerry STARR Hubbard OH
- 1210 Andy RUGG Pointe Claire PQ
- 1135 Michael SCHEEL Davenport IA
- 1055 Brett HANAVAN Chula Vista CA
- 1055 Paul MOUNT Teaneck NJ
- 1045 Alan IMPRESCIA New York NY
- 1020 Tom SUNDSTROM Willingboro NJ
- 995 Brett HANAVAN Chula Vista CA
- 960 Tom SUNDSTROM Willingboro NJ
- 945 Geoffrey PARRISH Deerfield IL
- 930 Andy RUGG Pointe Claire PQ
- 910 Alan IMPRESCIA New York NY
- 890 Russ EDMUNDS Parsippany NJ
- 865 Neil DICKERSON Sharptown MD
- 860 Bill HARDY Aberdeen WA
- 860 Nancy HARDY Aberdeen WA
- 845 Bill LACKEY Kingsville TX
- 830 Ron MUSCO Windsor CT
- 825 Russ EDMUNDS Parsippany NJ
- 815 Jerry STARR Hubbard OH
- 795 Bill HARDY Aberdeen WA
- 770 Forest OSBORN Hooker OK
- 765 Neil DICKERSON Sharptown MD
- 730 Jeff FALCONER Clinton ON
- 720 Paul MOUNT Teaneck NJ
- 715 Jeff FALCONER Clinton ON
- 675 Forest OSBORN Hooker OK
- 645 Rich EDDIE St. Louis MO
- 640 Nancy HARDY Aberdeen WA
- 630 Michael SCHEEL Davenport IA
- 610 Rich EDDIE St. Louis MO
- 600 Karl JETER Atlanta GA
- 595 Ron MUSCO Windsor CT
- 580 Harry HAYES Thornhurst PA
- 560 Stephen PONDER Fort Worth TX
- 530 Harry HAYES Thornhurst PA
- 480 Bruce WINKELMAN Greensboro NC
- 455 Bill LACKEY Kingsville TX
- 455 Dave SCHMIDT New Castle DE
- 440 Dave SCHMIDT New Castle DE
- 435 Bruce WINKELMAN Greensboro NC
- 425 Bob WESSOLOWSKI Milwaukee WI
- 355 Bob WESSOLOWSKI Milwaukee WI
- 325 Karl JETER Atlanta GA
- 290 John BOWKER Valparaiso IN
- 195 John BOWKER Valparaiso IN
- 175 Jeff KOSNETT Charleston WV
- 150 Jeff KOSNETT Charleston WV
- 140 Stephen PONDER Fort Worth TX

- KOAT Albuquerque NM*
- KOBE Las Cruces NM*
- KEED Eugene OR
- KLMX Clayton NM
- WFPB Miami FL*
- KWRO Coquille OR*
- KLMX Clayton NM
- WMPJ Daytona Beach FL
- KVSL Show Low AZ
- KSNY Snyder TX
- KOKO Warrensburg MO
- WSPB Sarasota FL
- KOKO Warrensburg MO
- KLLL Bozeman MT
- KWFM West Plains MO
- KLMX Clayton NM
- WQSN Charleston SC
- WDIG Dothan AL
- WMPJ Daytona Beach FL
- WSPB Sarasota FL
- KDKU St. George UT
- KDKU St. George UT
- KOPO Tucson AZ
- WMVG Milledgeville GA
- WCVS Springfield IL
- WMPJ Daytona Beach FL
- KTTP Porterville CA
- KXXL Bozeman MT
- WDGG Dyersburg TN
- WMVG Milledgeville GA
- WMVG Milledgeville GA
- KOKO Warrensburg MO
- KDKU St. George UT
- WFTR Front Royal VA
- KEST San Francisco CA
- WRRL Lexington VA
- KATC Beaumont TX
- KOKO Warrensburg MO
- WJEM Jackson MI
- WASK Lafayette IN
- KRZY Albuquerque NM
- WESC Hartsville SC
- WMPJ Daytona Beach FL
- WNAT Natchez MS
- WMTB Myrtle Beach SC
- WESC Hartsville SC
- WLAY Muscle Shoals AL
- KOKO Warrensburg MO
- KXVW Jeffersonville IN
- KXVW Jeffersonville IN
- KLWV Cedar Rapids IA
- WCVS Springfield IL
- WMOH Hamilton OH
- WJPA Washington PA
- KCYL Lampasas TX

It looks like I missed my chance to improve my own standing in this column by missing out on the KOKO test last season. As you can see several records were set in this column by that station. Way back when, it seems like KONP or KPUY were the stations to hear for those on the east coast. WGUY get out well for Norm Maguire when they were a graveyard. Now I can't even hear them from Gouldsboro when they are on 1250 and 5 kw non-directional! Well, I guess that's how things have changed. But despite all the interference problems of the present day several of you are making some really incredible records, even to the point of beating some of the pre-1960 records. Keep up the good DX work and send in those updates to me.

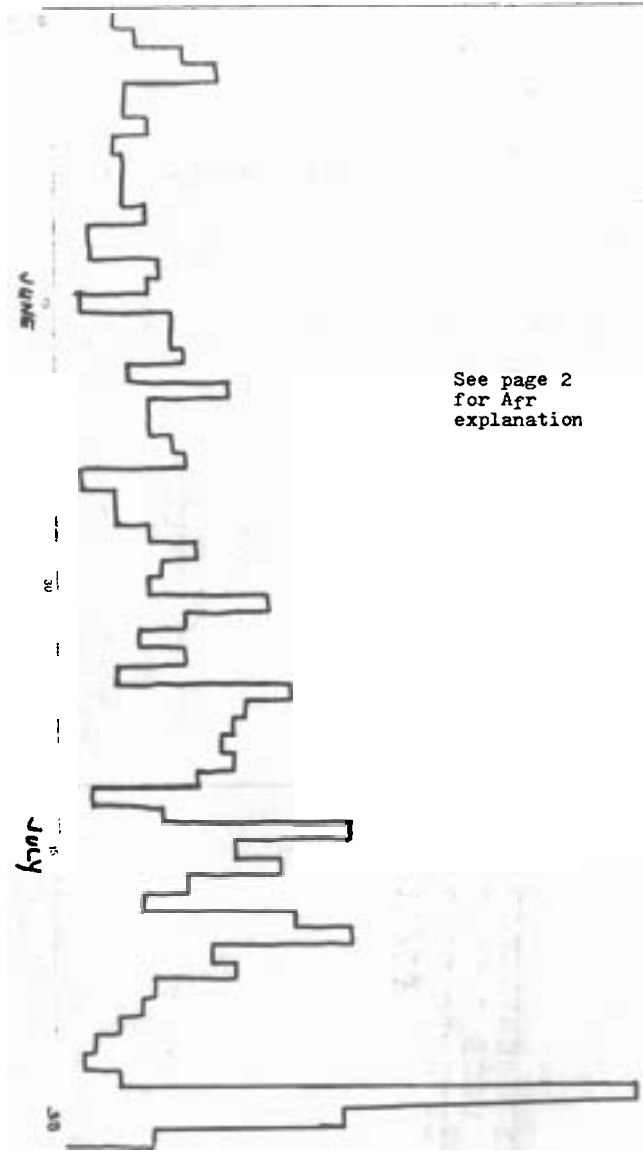
For new contributors, a rundown of the rules again. Send in your two farthest loggings on each of the six graveyard channels. These can be from one or more locations. Only stations in the U.S., Canada, Mexico, Cuba and the Bahamas, with 1 kw of power or less, at the time of receipt, are eligible. Also, the totals column is draw-closer. To old and new contributor alike, send in the total number of stations you have logged on each graveyard channel and the sum of these. Also include the year you began DXing at your location if you care to. DXers may not be listed more than twice in this final column of the year, that is, you can send in two different locations you have DXed from, but no more.

DEADLINE here in Gouldsboro for 1490 is Saturday, October 29, 1977. The deadline for the totals column will probably be a month after this. More on this next time. Go after 'em everybody and contribute!

Harry

V E R I E

540	KWMT q	Barry Walsh, CE	D	1250	WARE l	Arthur T. Reed, CE	E
550	WGR q	Harold A. Higgins, CE	B		WTAE f	John R. Romick, CE	E
560	KPQ uqm	Duane S. Lee, CE	B		WMTR fm	Stuart Engelve, CE	E
	WGAM q	Lyman Brewer, CE	B	1260	WNDR q	u/u, CE	E
580	WTAG q	John K. Andrews, CE	E	1270	CFGT ln	Jean Roch Maltais, TD	E
590	WLVA lm	David R. Freer, CE	B		WCBC i	Manning M. Kimmel TV	E
	CKEY lm	William R. Onn, Eng M	B		WSPR qmx	u/u	E
600	CKCL q	u/u	B		WFUL l	Kenneth Z. Turner	E
610	CKTB q	u/u	B	1260	WMMN q	u/u, ACE	E
630	WPRO q	u/u, CE	EB		WWYN l	George MacMurdy, CE	E
640	KFI q	Bernard Koval, CE	R	1280	KHEP p	Bill Pickett, CE	E
680	WRKO f	Bruno Puglia, ACE	B		KIT q	u/u	E
690	WNNT l	Rusty Brown	B		WTHH p	Harry Swain, OpD	E
705	StVincent	u/u, M	D	1290	KTRN r	King Wiggins, PD	E
710	CJRN f	Harry Pressey, E	B		WTUX r	u/u	E
720	WGN q	Woodrow R. Crane, CE	B	1300	WEZQ lm	Hewitt Addison, GM	E
730	CHYR? f	u/u	D		WAVZ l	Tom Osenkowsky, CE	E
	WMTC l	Kenneth Amspaugh, CE	D	1320	WHHO l	Dennis Kavanaugh, CE	E
740	WMBG l	George R. Ramsey, CE	B		WKAP q	Ralph L. Van Der Linden, CE	E
	KMBD p	Michael A. Russell, CE	B	1330	WEVD q	George T. Isleib, CE	E
750	WHEB q	Antonio Vaccaro, CE	E		WPOW l	D. W. Winter, CE	E
770	WABC q	Qinston H. Loyd, CE	B	1340	WPOW l	H. E. D. Smith, CE	E
790	WPIC lh	Charles Ring, CE	B		WLVL l	Frank Glaz, CE	E
800	WTMR l	H. Thom Greenwood, CE	B		WFAU r	Joseph R. Roy, CE	E
	WSVS rm	Mary Ann Silverman, OpD	B	1350	WJML q	(Dudley Bulloch, E	E
820	HJED cn	Eduardo Rueda Santos, G	D		WGOH l	(John J. Anastasio	E
830	WCCO lm	u/u	E	1370	WGOH l	Ken Jackson, PD	E
850	WRAP c	C. R. Mills Jr., CE	B		WSAY l	Gordon P. Brown, GM	E
	KTAC qu	Randy J. Pugsley, CE	B	1380	WAMS qm	Bruce Jawee (?) CE	E
860	WTEL l	Theodore F. Klatt, CE	B		WMLP l	Harry Bingaman, CE	E
870	WHGU lm	"Martin", GM	E		WAWZ l	James M. Pearsall, PD	E
900	CKTS q	Diane "u/u", S	B	1390	WFBL q	Donnic Bordman, CE	E
910	WOKK r	R. K. Wall, CE	D		WTNL l	E. Lloyd Kilday, GM	E
	WRKL l	Jeffrey Baker, CE	B	1400	ATET l	Bob Lindsey, CE	E
920	KXLY uq	T. O. Jorgenson, CE	B		KMND ul	Stephen Barton, CE	E
940	CEM q	M. Morris (?)	B	1410	WMCS r	W. D. Chapman, CE	E
	WGRP q	u/u	B		WDOV q	George Romel, CE	E
950	WAGM f	Norman W. Johnson, CE	B	1420	WDOE lm	Gary W. Dash, CE	E
960	WELI q	Robert Antonio	B		WCOJ lm	Louis M. Seltzer, P	E
	CHNS q	Judy Caruthers	B	1430	WENE q	John Fischler, CE	E
	KOOL p	Al Hillstrom, CE	B		WVGS p	Bob Ritter, PD	E
	WPRF l	E. S. Beerbower, P, GM	D	1440	WHHH lm	John L. Armour, E	E
970	WCSH f	Herbert W. Crosby, GM	B	1450	WILM f	James Orre, CE	E
980	WILK q	u/u	E		KEED l	Earl Gosnell, CE	E
	KUTI l	Larry Craig, DoE	B	1460	WCTC l	Clarence Dingman, CE	E
990	WLKW l	Paul Temple, CE	E		WCMB q	M. L. Thompson, CE	E
1000	CKEW ql	Ralph Borowski, CE	EB		WOKO f	Mark Spellman, CE	E
	WIQT r	James B. Stevenson, GM	B		GJOY f	L. D. Smith, Eng M	E
1050	CHUM q	George Jones, CE	B		WVOX f	Seymour Sinuk, CE	E
1060	WGTR f	Robert M. Lund, CE	B	1470	WOHO uq	Edward T. Montgomery, E	E
	WQWX l	Bob Ray, M	D		WLAM l	Herbert Wiles, CE	E
	CJRP q	---- Brooker (?)	B	1480	WKND l	Kenneth Dawson, GM	E
1070	WKOK l	John W. Keller Jr., VPoE	E	1510	WMEX q	George W. Watson, CE	E
1090	WENR lm	Mrs. Sue Kean, P, GM	D		WJIC f	Ben Ferguson, CE	E
1100	WWE q	J. Schraitle, Eng M	B		WNLC q	R. C. Barrett, CE	E
1110	KMOX q	Galvin Horl (?)	B	1530	WMET lm	Julian J. Milweski, CE	E
1150	CHSJ q	E. Boles, E	B	1540	KXEL q	Tony Phill, CE	E
	WCOF p	u/u	B		WARD l	Jack Watkins, Trf	E
	WBEL l	Joseph W. Jones, NRC, CE	B		WDON l	Jeff Schill, D, Pub Rel	E
	WFPM l	Mary Jo Reehling	C	1560	WJUT lm	Beth Callahan, Trf M	E
1190	WIXE l	Ray Atkins, GM	C		WSHY lm	Frank Konwinski, CE	E
	WANN q	M. H. Blum, GM	E		KCJY lm	Monte MacBride, Op M	E
	WONO q	Bill Wolfe, CE	E		WTOD q	R. B. Sower, CE	E
1220	WGAR q	u/u	E		XEVIP le	Kathryn Loretta	E
1230	WJOY l	Dennis J. Snyder, CE	B	1570	WSWV q	(Wayne Sizemore, CE	E
	WFOA l	Keith E. Angstadt, CE	B		(Clyde Wardell, SM		E
1240	WMEB l	Donald A. Gould, PD	C	1590	WHPY r	D. O'Quinn	E
	WSEW l	Gary L. Nichols, CE	B		WBEL lm	Bill Gray, SM	E
	KSMA ul	Dennis Bornhoft, CE	B		WQIQ l	Rudy Hanna, CE	E
	WSKI q	Gerard Marcotte, CE	B	1600	WIKY q	u/u	E
	CJRW l	Lowell E. Heustis, Prod M	B		WPDC f	Joseph S. Winters, Op M	E
	WCNC l	Joseph L. Lamb Jr., GM	B		WUNR l	William Bartels, TD	E
1690	WTAE l	John R. Romick, CE	B				E
	WTHH p	u/u	E				E



See page 2 for Apr explanation

KHVH, KPOI to Change Frequency

WASHINGTON — The Federal Communications Commission has approved the requests of two Honolulu radio stations KHVH and KPOI to change frequencies.

The changeover is expected to take place within five weeks. KHVH, Honolulu's only all news radio station, will switch from 1040 khz to 980, while KPOI will assume KHVH's frequency of 1040. KPOI now operates on 1380 khz.

Honolulu Star Bulletin via Norm Maguire

The FCC said the change involves no monetary consideration, nor exchanges of property, equipment or assets.

One Honolulu resident objected to the change, the FCC reported, but it said it rejected the petition filed by William Tagupa since he did not discuss the issue under question. Tagupa objected to the stations' equal employment opportunity programs and said that KPOI's programming did not meet the needs of the community.

The FCC said Tagupa's objections could be taken up when the stations' licenses come up for renewal next Feb 1.

- A - Steve Fonder
- B - Juergen Trochimozzyk
- C - Karl Jeter
- D - Kelly Andrews
- E - Mel Bernstein
- F - Ernie Cooper

Still more coming! Great support, gang! -ERC