"You fellas have gotten it all together -- the finest club of its kind I've been priviledged to be a member of!" (Dick Truax-Louisville)

ON THE INSIDE

- Reprint List Updater - HQ (typed - C. Cooper)
- Product Review - Dividex Counter -- Bob Foxworth
- Precision Frequency Analysis - Ron Schatz
- Brazilian Info - Robert Veltmeijer, via Cesar Obajo (who also typed)
- A most interesting verie - Kelly Andrews

NEW MEMBERS

* Robert Wessolowski, 1993 So., 33rd St., Milwaukee, WI 53215
* David L. Bauchman, 511 N. 35th St., Camden, NJ 08105 (re-joins)
* John Cassara, WAYC, P.O. Box 1, Bedford, PA 15522
* Mike Biscoff, 420 Longfellow Ave., Deerfield, IL 60015
* Michael E. Myers, 4148 Sheraton Dr., Plain, WI 48504
* Tim Benko, 2748 179th St., Lansing, IL 60438
* Burton Zachs, 500 Enright Rd., Rm. 644, Lawrence, KS 66044
* Stan Shedd, 1433 Fith St. NW, Calgary, Alta, CANADA, T2K 3C1
* Eurene W. Nav. Jr., WB8W/KU, P.O. Box 582, Ann Arbor, MI 48107

RENEWALS


FLASH TIPS & SUCHLIKE

2/5: KNUJ-860 hrd by RJF, RGS, Schmidt, Musco, w/ polkas, march mx, IDs, code, TT; WJTC-1510 w/ code and TT vy wk w/ WREX etc., by Musco, RJF, Schmidt; WAYO-1600 hrd strong w/ TT, IDs by Schmidt, RJF, RGS, Hansch, Musco; KAOL-1430 hrd by Hansch, Morse IDs hrd wk w/ CKFH, WYAN by RJF, Musco. This was a good case for the code, especially as it was a good high audio freq. (3 kHz.) allowing RJE to audio filter out most everything but the code, hi, 2/5: KPIA-1480 hrd w/ TT, c/w, IDs by Schmidt, KSOA-1430 only hrd wk TT -- nothing definite by Schmidt. 2/6: (again) KPSO-1260 hrd tone only, do ID or else by Hansch; WBRW-1170 noted weak u/WWVA w/ various TTS by Schmidt. 2/16: KVSH-940 apparently a no-show on a virtually empty freq. (RJE/RGS); KKNY-1090 not hrd due to CKW (RJE-RGS) and KNIP-1580 made it another case in favor of code IDs with a few pieces of code IDs limping thru the QRA & XEDK for a real goodie - RJF

TESTS listed inside for CJRW-1240 & KTGR-1580 rec'd here at deadline. The details should at least enable those who hear them to report. We'll set CJRW info out throughout the NE area, and also KTGR....

As of 3/1, CFCK-1310 will do no varies per John Sommer. Current v/s is E. J. Garnerie, Dir. of Communications, 10254 Yonge St., Toronto 13B7.

NOTES & FROM NJPC

Our dear condolences to member Jim Mall of Louisville whose father recently passed on.

WE NEED PEOPLE!!! - Due to Carl Junker's "retirement" from the hobby, we need someone to take over the Flash Alert Service. This person would mail postcard info on last minute tests to those who had supplied SASPA.

All old cards will be forwarded by Carl. Info would be sent to FAS by phone from HQ, CP0-HQ, or the arrn. Generally, any Test notified between 10 and 4 days in advance would go this way as it would be too late for the advance bulletin, but in time for card mailings. Volunteers write HQ.
We'll start right out with what's been heard . . . .

- ALGERIA: Ali Belda-air w/female AA vocal and weak audio level, 2255, 2/3.

- BELIZE: "777/77" w/20s ID at 0600, 2/3.

- SWITZERLAND: Bernminster dominant w/man in GG, 2215, 1/27, (Connolly)

- GRENADA: R. Grenada 2/9 first noted 1021 w/rel nx. TD and ID at 1025, nx at 1037. First time ever that I've found a trace of Grenada here. As strong as the other Caribbean outlets heard this AM. Country 45 and tape sent. (Connolly)

- COLOMBIA: UNICA 2/9 soft inst nx w/male angr at 0559 mentioning R. Cadena Nacional and free; also mention of Bogota. (Barnes)

- WOR-MREAL TVR Mundial, Caracas ID this way at 2/2, quite weak for 15 kw. (Obj/c)

- ST KITTS: ZIZ 2/9 only 2nd time I've found readable audio here, at 1041. I checked for Grenada as soon as this was heard. (Keeney)

- UNID Nat on low side of WGCA during excellent TA opening, 2220, 1/27. (Connolly)

- DOMINICA: R. Dominica 2/9 1015 w/hymns and ES nats. (Keeney) (Connolly)

- UNID Strong on WGR on several occasions, e.g. 2200 1/26 and 2340 2/3.

- COLOMBIA: R. Ciudad de Cali, ID at 0539, just stopped to listen this one because of the record they were playing, "I te was" (and you are going away) a beautiful song I bought on my trip to Bogota, 2/2. (Obj/c)

- SPAIN: La Cornuca setting CEN (OMG not yet faded in), man in SS audible when CBN definitely the Spaniard, as not co-channel w/CEN, 2304, 2/3. (Connolly)

- ENGLAND: BCN TVR a regular. Noted w/play having man w/distinct Scotch accent, 2213, 1/27, repeating WMN's 10:45 w/ID to CBN during excellent opening and killing WMN/TVR at 2243 to 2/29. (Connolly)

- COLOMBIA: R. Super de Netellin', w/program of tangos at 0650 on 2/20 w/CBGS vy weak, (Obj/c)

- ST VINCENT: 2/9 no sign of this on one w/ID call a super Caribbean AM. (Keeney) Rob also mentions that he has sent a letter of inquiry to this one to find out what their current status is. (Connolly)

- PORTUGAL: Norte consistently among the strongest 7Ms at local sunset. Aopt WGN w/ch Ernst and marques hot. Last jazz-rock mx 0000. Local net present on several other occasions while driving home from work during local sunset period. (Connolly)

- JAMAICA: R. TT at about 700 cycles hrd from t/in at 0909 steady thru 0942, far I can't pull any programming on this Fun. The carrier appears around 0940 and an MS begins around 0925 or so - it consists of about 25 notes and takes about 1-seconds. So far, CBNM and/or Maracibo have done him in beyond that - s/on is supposed to be 0930 for BS in FF. (Cooper)

- MEXICO: CBNM 1/2 0600 w/anr speaking slowly giving ID and playing Ranchera mx. Mucho CBGS sloppy; but no, KENDM slop. (Lobell)

- ARGENTINA: R. Makaya, s/off at 0530 w/NA sung by a female chorus, on 2/2, (Obj/c)

- SPAIN: Barcelona pops hot. Audio occasionally discernible given 2354/55, 2246, 1/29 and 2219, 1/27. (Connolly)

- MONTERRAT: R. Antilles 2/9 WPP ancr 0531 w/WSLS. Race ID at 0539 for tape pogrammed. (Obj/c)

- ST VINCENT: 2/9 WPP ancr 0531 ancr ID pogrammed. They've been heard this AM. Like the WPN, they're doing and where at the moment. Format of 20s ID is tentative at this time. (Obj/c)

- SPAIN: Most in this AMs, while I'm speaking slowly giving ID on 0630, 2/29. CBNM has been heard this AM. The carrier appears around 0940 and an MS begins around 0925 or so - it consists of about 25 notes and takes about 1-seconds. So far, CBNM and/or Maracibo have done him in beyond that - s/on is supposed to be 0930 for BS in FF. (Cooper)

- UNID Last signal on ID few notes in the midst of some static and an "Radio Rico" ID caught at 0715. I find nothing listed like this! (Cooper) Sounds like the same one I had several years ago here using R. Rico IDs - I never did find out who it was for sure but I suspect the RS. (Ed)

- GENERAL: Dakar vy strong, effectively pushing thru WABC slop w/FPP talk and native mx on an instrument sounding like a hybrid of xylophone, Trinidad steel drums, and ukulele; at 2225 to 2/27. (Connolly)

- GUATEMALA: TGN on 2/2 w/some kind of LA mx and male/female ancr IDing as R. Paternidad at 0649. Sig vy poor w/much fading. Hearing this was a real surprise considering output power (3kw) and recent earthquakes. (Barnes)
ALL in At 0229 a definite het
I / (Someone else there but too
Faded
Tried
Short
HJDF clear
2/7
Is KAIM still all rel, or is this
I'm not
bian
part
than
-PANAMA
SCO
Salvador
quake did them in? (cooper)
-VWEZUELA
UNID
-SPAIN
WHOA
mx.
(waterman)
Strong
(given by
WID
2/9
0800
ancr
for weak
0835
La0
except for weak
291-7802
-ED)

The likely source of low side het on
0835
is
SM
stronger
AN,
reoently
la0
un/diff.

This adds another 0917-0930 one listed on 970 in El
(hutton) Cuba. (ED)

2/10, running across the hour;
weak
w/woman
mx
and on past
Eu??
called
with
no sign of
sisa,
sig,
and on past
0906.

________________________________________________________________________

0915

-UNID ARAB

hxd here w/AA/chanting around 2200 on either 1/28 or 1/19. (cooper)
-UNID R. Cartago, Cartago, pop mx and ID at 0640 on 2/2. (obj)
-UNID R. Cristel, Medellín, ads and pop mx at 0646 on 2/2. Carlos Cardel
sings a tango after ID. (obj)
-UNID Neiva, 2/5 0555-0702 vy weak w/SS vocals, promo for nx pm
"Habanera" and ID "HOU la Radio de Colombia". Someone else there but too
weak to ID. (Zank)
-UNID XEMBC 1/2 0650 vy sig but not only stn on freq hxd. XEMBC/ID
at 0940. (rel)
-UNID VENUS2 1/2 0630 what a vy nice and unexpected surprise for country
17 hrd. SS sig w/ID Radio Tiempo. Mucho alrop from 1190 KEZY (no sign of
XEMBC). No sign of WOAI this Monday of the second month of this bicen-
tennial year. (obj)

A report will definitely go to this time.

-UNID HUAI, 2/7 1216.

An attractive young female (no ID) caller, largo with
SUS-SS pop vocals,
clock chimes and TG by woman twixt selection, 0700-0810. Carrascal and R.
Vision IDs on hour. (Zank)

-UNID R. Calidali, Cali, pop mx and ID at 0657 on 2/2. (obj)

-UNID R. Port-Antioquia, Strange to hear this stn in operation at
0702 on 2/2 w/soft by Dalida, too late for them. (obj)

-KUWAIT Almost certainly the sig here 0227 2/10 (Non even, home from work w/
fl.). Played an IS several times, seemed to have lots of dead air, some chants
(Probably QMn readings) hrd at 0232 and times afterwards. 

also peaks, rapid and deep fades but modulation seemed vy shallow. Sig was out at
0300 re-check. At 0229 a definite het hrd from 539 against 940, but not enuf
there for audio, high-band cx were much better than low-band this site,
interesting at this time, nothing at all noted on 1016. The 1945 sig was
exactly on that freq (within a few hs error bracketed) according to my 30 freq
standard. (Foxworth) Rice catch but you are still a bum - you just beat me to
that HQ-150. (ED)

ST PIERRE A fairly good sig at times from 2310 onwards 2/9 and on past 0100
2/10 this afternoon, hard fading. Had a drama, possibly French version of
Mary Hartman? (Foxworth)

-MEXICO XEDO 2/9 at 0659 w/mx and male ancr IDing as R. Eco. (Barnes)

-ALBANIA Some RR talking by EL hrd at 2205 on 1/29. (waterman) * Fair to
good
effects (cooper)

-UNID R. Vision, many ads about Venezuela and ID after every record at
0950 on 2/2, announced time as 1215 AM, 3 mins fast. (obj)

-LUXEMBOURG Rice level around 0100-0200 2/10 w/pop/s, some fading. Better
good stn across the hour; weak

-ITALY Synchronised Italian stns logged and reported MM 2/2 0533-0616 fadeout,
x at 0530-0535, then pop mx. (cooper)

-ALBANIA (Tentative) TL in unid langauge 0445-0505 2/1.

-Fixed on the hdx and over the around, but as far as I know BEB plays mx/WW anst at
this time. Excellent TA nite; at least 20 carriers detectable from 1100 to the
1000 of the band. (Hutton)

-MONACO Monte Carlo in GG at 0511 on 2/2, vy good. (obj) * Strong w/mx
then
-ED 23/1, 22/1.

-UNID Stn here /sedate mx 0100 2/10, running across the hour; WDPB being on
didn't help, who runs this late help? From someone in Bnt? (Foxworth)

-GEORGIA Ursachi hrd here /fair sig 2259-2335 2/7 and again 2247 2/7-2335
off of

-PMU 2/7 2335-2345 (off) after ID. (obj) * Work arran 2/p by

-CARIBBEAN R. Martinique, 29th stn on freq until 2335

-UNID Stn here w/soft by Dalida, too late for them. (obj)

-MONACO Monte Carlo in GG at 0511 on 2/2, vy good. (obj) * Strong w/mx
then
-ED 23/1, 22/1.

-UNID R. Tinto, Editorial, WBS, stn hrd for the first time, ID at 0515.

-UNID R. Tinto, Editorial, WBS, stn hrd for the first time, ID at 0515.

-UNID Stn here /sedate mx 0100 2/10, running across the hour; WTPB being on
didn't help, who runs this late help? From someone in Bnt? (Foxworth)

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-PMU 2/7 2335-2345 (off) after ID. (obj) * Work arran 2/p by

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-UNID Stn here w/soft by Dalida, too late for them. (obj)
DOMESTIC

IGEST

- Application for 2.5 kw directional daytime.
1530 am Hendersonville, WNYL seeks increase power to 5 kw daytime.

The FCC allows an additional station in Cheyenne, Wyo., to join in C.B. for 64 net.  So KNE CHEYENE in KENY Prov will join ABC net.  Previous order of FCC stripping Star Broadcasting of the license of KFOR, Vancouver, WA., KOIL Omaha, Ne., & WIFE Indianapolis, In., has been upheld by US Court of Appeals in Washington.

***

Per 1/30/76 "Radio & Records", KNSR Rifle, Co., was denied license renewal by the FCC.  The denial cited operating infraction and other misrepresentations.

Emergency Action Notification tests were not held in over a year, and a contest was allegedly rigged.

Now more 1340 KXN, info from John Sommer.

WFBQ AL Box 358...Sked: 0600-0100
KIKO AZ Box 1543 Net A
KPHR AZ 0800-0000 Net A
KORV CA Box 137, zip 95869 Sked: 0900-0300
WAGA GA 0600-2300 Net AP
WJIZ IN Add: Hintonville Rd. Sked: 0530 (0645 (0730) 2315
WVTC TN Sked: 0900-0100
WZIQ MN 0500-0600
KLEP MC Sked: 110 Broadway
KBQD NE Net A Sked: 0600-1000
KBXT NV 24 hrs. NSP 24 zip 89051
VCRB TX AP-1 (may be wire service, not audios)
WILD NJ Box 1137 Net Ac
WOWC NC Net Ac Sked: 0545-0000
WGRQ NC Box 358 Sked: 0615-0000 Net APR
KESI TX NSP
KBBA TX 24 hrs. TSN (Texas State Net)
WWTW TX 0530 (0730) 2315
WSTA WA Address is correct, but St. Thomas, not C.A. Sked: 0600-0100

The reports for this issue . . . .
1500 am WSGR WA Net A 24 hrs.
WFTW WA 0545-2350
WKJX WA Box 1340
WRIT WA 5407 W. McKinley Av. Net A: NIS & Ac
KSGT WA Net A & IMW (Interwnt, Net: Sked: 0800 (1000)
KFYI NV Box 130 0800 (0000) 0000 (2300)
KNOR NY 0800-0900-0000 (2100)

And 2 others from John

680 WBOO WHK in Radio Plaza, Owings Mills, M.
900 KTIS MN 3000 Shellew Ave., St. Paul.

TEST RESULTS:
540 WYUJ Hrd: (DSB) (WA) (Bull) (John) (HX)
710 WQKI Hrd: (DSB) (John) (DS) Text: (Bull) (WA)
1340 WGRQ Hrd: (HPO) (WB) (DB) (RX) (RX)
740 WWBO Hrd: (RX) 1200 WJW Not hrd: (Everyone)
1240 CQWW Net: (Everyone) 790 WSQG Hrd: (HPO) Net hrd:
1220 WBRB Hrd: (DS) (WB) (KDF) (Bull) (Bull)
1430 KBGA Not hrd: (WBOO-Starr-WPM) 1430 EPJ Hrd: (Bull)

LIBYA A powerful new transmitter has been noted testing on 827 kHz with AA ax, amnts.

Clifford BARNES - Bismarck, Texas VHF transceiver, translator, 65' longtime
Mark CONNELLY - Belmont Hill, Massachusetts Car radio, 6' whip
Earle COOPER - Provincetown, Massachusetts Hq-1800, SM-2
Richard CRUM - Philadelphia, Pennsylvania 509/2/3, Sanzerino loop
Geoff FOX - Lindenhof, New Jersey 1500, Sanzerino loop
Bob FRIED - Mineola, New York Hq-150 w/SB601, 15 lbs., SM-2A
Chuck MUNRO - Decatur, Georgia Hq88/3UR, Sanzerino loop
Bob KEENEY - Lawrence, Kansas Hq-180, SM-2
Al LOBOS - Bialone Rl, California 1510A, Sanzerino loop
Gonzalo LOPEZ - Santo Domingo, Dominican Republic Hq-160, loop, 60' wire
Sharon WATSON - Mountview, New Hampshire 4600A, loop
Wall ZANK - Lincoln, Nebraska Hq-160, SM-1

LIBYA A powerful new transmitter has been noted testing on 827 kHz with AA ax, amnts.

This and that . . . .

LIBYA A powerful new transmitter has been noted testing on 827 kHz with AA ax, amnts, and some tone. (New Zealand DX Radio Assm.) Looks like Libya is using this freq. (ED)

LIECHTENSTEIN! This country has been granted a frequency at the recent conference.

Radio Liechtenstein will use 1396 kHz with 500 kw with programs in German. This assignment becomes effective November 26, 1975, which is the date for the frequency changes to become effective. (Variety, via Pory)

Sri Lanka Trans World Radio has been granted permission to establish a 260 kw MW unit here to serve India, Bangladesh, Pakistan and Burma. Const is starting and the unit is scheduled to be shipped from France in June or July. Hope to be on in late 1976. (Religious Broadcasting via Starr) * * That's it. See you in 7? / / DX.
A general re-hash of procedure for reporting to DDXD seems in order, get\nlotsa new members out there!!

1. Don't care if you write/print/or type, just so I can read it.
2. Date/initial each item reported. On "tests" or "d/c" just mark that\ngroup of items!!
3. Write on one side of the sheet of paper only!
4. Items over 2 weeks old at my deadline here will be dropped, unless it\nis a call test stuff. Station changes will be used if reported with\nwithin a "reasonable" time.
5. Cut dates during the "DX SEASON" are the MS before my deadline.
   A deadline of 2/31 (obvious example!!) will not include items older\nthan the MS about 10 days before that date.
6. Reports don't have to be double spaced, but leave a little room (we are\nusing a modified "cut & paste" system here).
7. Any questions directed at DDXD people, and an answering should\nalso have an SSB on your calls (either local ads, dx, CB, Wink\nelmom, etc.

Now as to what should be reported:

1. Exotic or rare loggings.
2. Semi-rare loggings
3. Interesting DX or skip conditions.
4. non-routine equipm. tests
5. frequency check info
6. station changes

semi-useless stuff

1. regular DX from your area.
2. clear channel DX (50SW class A's)
3. UNIDS with no info to aid in identification!

That's about it, reports should be kept in similar to the forms see\nhere in order to be used depending upon the age, and the quality\nand quantity of other reports received. Remember that this isn't suppo\nted to be a "brag" section, but to offer info to other DXers. Further I will\nnot include all info on other reports, has had cases where reports of u\nusual or "odd" reception reports from info in this section.\nThe info here is enough to help you find & log a station, the rest is up\nto you. And a final mention that loggings might be dropped if you're the last\nDXer to log what has been heard by most others from your area. After all!!!

REPORTERS:

RA Ray Arruda New Bedford, MA OX12/ TSTF SM
Bull Tom Bull Washington, DC RQ160 SM
LEB Lynn Burke Newport News, VA RQ160 SM
DS Dave Burns Woodbridge, VA RQ160 SM
HJH Harry Hayes Gouldsboro, PA Zenith 70 SM
KL Bob Kerney Lawrence, KS RQ180 SM
AL Armin Litten Port Elgin, ON dm
pm Paul Mount Teaneck, NJ Asmco R-5, R 1551 SM
MPO Michael O'shea Buffalo, NY HA600 LW
OS Dave Schmidt New Castle, DE HA600 LW
John Jim Grimmer New Castle, DE HA600 LW
Bruce Winkelman Grove City, PA RQ160 Mini-loop
Sharon Waterman Southwick, MA HA600 LW
Starr Jerry Starr Hubbard, Ohio Ha600 LW
HWW me Girard, Ohio Ha600 LW

Had some stuff from Wayne Heinen & from Craig Haley, but misplaced them\nsomewhere. This don't happen very often, but methinks my "little ones" are\nhiding the stuff. This means WAR!!
A PREFACE TO "PRECISION FREQUENCY ANALYSIS" - RJE

Before one goes too far into the area of frequency measurement, it becomes apparent that probably a large majority of DX'ers are content to measure to the nearest kHz, or to whatever the closest readout they can get from their receivers is. For those who wish to go further, and who can make the financial commitment to do so, we present this article.

The single most important consideration, however, of this preface is to strongly caution that there are several dangerous, although unspoken implications in Ron's article. Most of these center around the idea that PFA is a short cut to DX'ing. IT IS NOT. It is an AID to DX'ing. DX'ing is, of course, HEARING a distant station, and not simply SEEING it on your scope or meter. In the years which have followed the introduction of Subaudible Heterodyne (SAH) Analysis, some dozen or so DX'ers have regularly used the technique. At present, about the same number use some form of Frequency Analysis, although perhaps half of them use a form of PFA. The caution is not to these DEX'ers, but to the general reader.

PFA or its other counterparts is used to HELP identify a DX station, to ascertain that a station of an unfamiliar frequency characteristic is present and should be actually pursued, to ascertain that an all-too-familiar station is there and may be ignored, but not to ID a station.

For most DX'ers, this should go without saying, but recently, we have encountered some problems in the area of ID'ing hets or carriers, and we at HQ felt, after reading Ron's article, that more strenuous clarification was necessary. We hope that in this way, we can forestall any such problems in this area. Thanks for your patience.

PRECISION FREQUENCY ANALYSIS FOR THE MEDIUM-WAVE DX-ER

Ronald F. Schatz

Any DX'er who has ever wasted his time relogging old catches or who has strained his patience on weak, poorly modulated carriers will appreciate precision frequency analysis. PFA can be used to identify the slightest trace of the faintest signal on the band in far less time than it takes to wait for some elusive ID in a strange language.

But PFA goes further than the usual efforts at precision frequency measurement; if a PPM is to be reliable for future reference, then something must accompany the reading in order to account for any change in frequency between the time the measurement is taken and the time it is referenced in the course of the hobby; the statistical methods of PFA gather the necessary data to compute such a "frequency integrity figure" (FIF).

A station's exact frequency and the manner in which it changes is like a fingerprint or a signature; no two are exactly alike. A PPM-FIF combination, if compiled with sufficient accuracy, is such a fingerprint, and as long as no other station has a similar reading it may be acceptable for ID purposes and, with the cooperation of a sophisticated chief engineer, even for verification.

PFA, in its coarsest form, is the recognition that a signal on 814 kHz can only be Radio Belize, since no other station uses such an odd channel, but this is hardly "precision". Were another station to claim Belize's channel, then the reading would have to be accurate to the point that a difference would be noted in the two frequencies. To the nearest Hertz, Belize has been running steady for a year on 834009 Hz, even if ten more stations were to occupy that channel, the chance of one of them repeating Belize's frequency would be extremely remote. This is a radical example, however; on the average crowded channel a PPM to the Hertz is necessary in order to come up with a unique reading among the others present.

Methods of Frequency Measurement

PFA officially recognizes only two methods of accurately measuring station frequencies to the nearest Hertz; other methods are insufficient or subject to intolerable error (e.g., use of the BFO or local oscillator). One such acceptable method is indirect counter measurement (ICM), the other is called the "heteroscope" method (HSM).

1) Indirect Counter Measurement (ICM). Special instruments required are a digital frequency counter (One of Heathkit's "IB" series is recommended) and a stable signal generator. The set-up is illustrated below:

[Diagram of a digital frequency counter setup]
Note that there is no direct connection to the receiver; the generator signal is "broadcast" to it.

Before beginning, warm up everything for at least a half hour. Calibrate the clock of the DFC with the highest WWV frequency available (usually 15 MHz at night).

The author has noted that even the primitive IB-101 has a very stable time base that will easily restrict its deviations to within one Hertz for several hours, even at the 10-MHz level; this means only a maximum error of ±0.07 Hz at WWV frequencies, an ignorable factor if readings are only to be taken to the Hertz.

Measure the frequency in question by zero-beating the generator signal against that of the station; either steady the needle on the S-meter or form a circular line on the oscilloscope. To insure accuracy, take several such readings, starting from scratch each time.

An alternative variation does not zero-beat the two signals; instead they are offset just enough to cause a very-low-subaudible heterodyne (SAH) which is then read against a watch "pulse-taking" fashion and either added or subtracted from the counter reading. Many find this method to be the easier of the two.

The average total error inherent in the ICM method is slightly over a Hertz in deviation, but the "mean" error is somewhat less than that figure.

2) Heteroscope Method (HSM). Special instruments required are an oscilloscope and a crystal calibrator. Again, warm things up, then align both the calibrator and the o'scope sweep scale against WWV.

As the reader can guess, the calibrator is used to form a heterodyne, which is then read on the scope by counting sine-wave peaks against the sweep scale. The HSM can be quite accurate, approaching that of the ICM method, but greater care is required in WWV alignment since there are more factors present for inherent error.

One definite advantage of the HSM is that it can measure the deviation limits of FM'ed signals, such as Rumbo-526; this is impossible with the ICM method. FM'ed signals may be recognized on the o'scope as a blurred sine wave, and on the counter as an inability to zero beat.

Statistical Analysis of Measurements

The frequency integrity figure (FIF) that forms an integral part of any PFA reading consists of at least four bits of data. We will use Columbia-725 to illustrate the derivation of this data:

<table>
<thead>
<tr>
<th>Station</th>
<th>Mean Freq.</th>
<th>Max.</th>
<th>Min.</th>
<th>Var.</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbia</td>
<td>724 865</td>
<td>+10</td>
<td>-11</td>
<td>16</td>
<td>8</td>
</tr>
</tbody>
</table>

Obviously, a PFA is far more useful to the DX'er than a singular PFA, since the FIF gives an indication of what a frequency can and will do.

Referencing PFA Data

At present, few DX'ers have the necessary equipment to make good use of PFA's, let alone measure and compile such data, but we would like to describe two possible systems that are both fairly accurate as well as inexpensive.

1) Sub-Audible Heterodyne Analysis (SAHA). These are the heterodynes that oscillate your S-meter. The object is to count the complete swings of the needle over a period of time, compute the frequency, then compare it with published PFA's. For instance: Station A has a PFA of 1444 007, and that of station B is 1483 987. If both S-meter dips at the rate of 9 Hz, then station A and B are the likely culprits.

SAHA is already a widely-used technique among trans-Atlantic DX'ers.

2) Heterodyne Pitch Analysis (HPA). Credit to Edmunds and Taylor (EN) for first publicizing this "poor man's frequency meter"; i.e., a guitar, piano, pitch pipe, etc. Here the object is to determine what musical note corresponds to the heterodyne in the speaker, then reference the table below:

<table>
<thead>
<tr>
<th>A'</th>
<th>.0275</th>
<th>.055</th>
<th>.110</th>
<th>.22</th>
<th>.44</th>
<th>.88</th>
<th>1.8</th>
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<tr>
<td>B'</td>
<td>.029</td>
<td>.058</td>
<td>.117</td>
<td>.23</td>
<td>.47</td>
<td>.93</td>
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<tr>
<td>C'</td>
<td>.032</td>
<td>.062</td>
<td>.123</td>
<td>.25</td>
<td>.49</td>
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<tr>
<td>C#</td>
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<td>.065</td>
<td>.131</td>
<td>.26</td>
<td>.52</td>
<td>1.26</td>
<td>3.1</td>
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<tr>
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<td>.035</td>
<td>.069</td>
<td>.139</td>
<td>.28</td>
<td>.55</td>
<td>1.11</td>
<td>2.2</td>
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<tr>
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<td>.073</td>
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<tr>
<td>E'</td>
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<td>.078</td>
<td>.156</td>
<td>.31</td>
<td>.62</td>
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<td>.165</td>
<td>.33</td>
<td>.66</td>
<td>1.3</td>
<td>2.6</td>
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<tr>
<td>F#</td>
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<td>.175</td>
<td>.35</td>
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<td>1.4</td>
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<td>.092</td>
<td>.185</td>
<td>.37</td>
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<td>1.5</td>
<td>3.3</td>
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<tr>
<td>G#</td>
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<td>.098</td>
<td>.196</td>
<td>.39</td>
<td>.78</td>
<td>1.7</td>
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<tr>
<td>A</td>
<td>.052</td>
<td>.104</td>
<td>.208</td>
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<td>.22</td>
<td>.44</td>
<td>.88</td>
<td>1.8</td>
<td>3.5</td>
</tr>
</tbody>
</table>

The figures are in kiloHertz: they are to be added or subtracted as appropriate to determine the approximate frequency, which is then referenced to a published list of PFA's.
The Digidex Frequency Counter details have finally become available. Here is a brief summary. The device acts as a digital dial (frequency readout) on your own receiver. It is functionally the same concept as the Wescorder, but a receiver dial. The user can change the number of channels. The main function is to provide frequency readout and to help in the use of the equipment. It can be used on any receiver whose VFO or HFO operates between 10 kHz and 30 kHz. The unit is made in Finland. It is claimed to be suitable on all types of receivers, but AC or DC needs to be used. Work and materials are guaranteed for six months.

The Digidex is coupled to the receiver's local oscillator via a small coupling capacitor. Instructions, parts and cable are supplied for the Trio, Kenwood and Selena brands of all-band receivers popular in Europe. It is likely that some technical assistance will be needed by many DXers to make this connection to another brand of radio. The details are as follows. As an incorrect connection to the local oscillator can pull the tuning off alignment badly and cause instability, the tuning of the oscillator will be adjusted before use. An isolation "follower" stage is an excellent idea to use here. Once the sweep is made in the receiver, the offset must be programmed, and this may be done easily enough by the user, by inserting crystals in certain places on a board. Each one of the digits is programmed with a number (representing the unit), so the 4 digits are programmed 9, 5, 4 and 2 respectively to make the counter starting that much "below" zero and so cancel out the IF difference. Each number is programmed in binary coded decimal, with each digit having 4 parallel lines representing 1, 2, 4 and 8. To program a number, jumper the 1 and 8 clips, to program a 5, jumper the 1 and 8 clips, and for the four, jumpers only. Some receivers' tuning pots aren't exactly centered at 10 kHz, so the preset programming is adjusted accordingly. If you're not sure of the exact figure, tune in a known frequency signal and trim the preset to make the counter read exactly right. An additional option for multi-band operation (where the 10 becomes a second signal) is available, involving switchable diode matrix boards. The offset can be easily switched in for each band.

Shipping instructions are on the next page. We emphasize - neither RNC nor this writer has tried the unit. We cannot vouch for its performance. We personally feel the price for the unit is a bit high, compared to what it would cost to duplicate the circuitry in this country (with the constructor's time not taken into account). However, it is probable that these components are more expensive in Finland than begin with. If anyone does go ahead and get one of these, we hope he/she will share their experiences in DO. Hopefully, an American distributor (J.A.W.??) will market one of these at a competitive price some day as they are nice to use. In the meantime - it IS a "first" so we here at RNC are here with the info for your use.

--by Bob Foxworth
DIGIDEX FREQUENCY COUNTER:

Display

Memory (latch)
Decoder

Crystal oscillator
Timing section

Amplifier

Selection of direction

Frequency adjustment factor (reset)

Decade counters

Computer

Fig. 1. The plan of DIGIDEX.

Conditions of sale

The price of the counter is US $ 220 which includes freight and insurance.

Delivery by surface mail to any country. Air surcharge on request. Digidex is insured during transportation. The customer has no risk whatever.

The price of Digidex with 5-digit display is 235 US $.

Payment can be settled in advance in one of the following ways: If necessary we will provide a Proforma Invoice.
- to our Postal Giro Account No. 898 34-8
- by International Money Order
- by cheque (payable to Erikoiskustannus Oy)
- by bank notes

Remittances - please register all mail - can be sent in every convertible currency by using the current exchange rates. We reserve the right to adjust the price due to variations in exchange rates and general price level. Note that any local customs duties or taxes are not included.

EAC/EFTA declaration will be enclosed. Digidex is manufactured in Finland.

To the following countries Digidex can be delivered on COD (Cash On Delivery, not postforfaktott) terms: Holland, Iceland, Austria, Luxemburg, France, Sweden, Germany (V), Switzerland, Denmark.

For further details please contact (enclose 1 IRC, 2 IRC's for Air Mail):

ERIKOISKUSTANNUS OY
P.O.Box 40
02240 Espoo 21
Finland

BRAZILIAN INFORMATION

by Robert Wemismann

A bill, creating a federal state broadcasting organization called "Rádiobras" has been submitted to the National Congress. As soon as this bill will be approved by the Chamber and the Senate, Rádiobras will unite all federal radio and TV stations, 50 future AM stations and 73 transmitters in the tropical band.

These stations will not only carry government information, cultural programs but also popular music and commercial publicity, which will provide part of the necessary funds. The stations will be installed in areas where few private stations are in operation now.

As a start Rádiobras will take over the following federal stations: TV Nacional do Rio, TV Nacional de Brasília, Rádio Nacional do Rio de Janeiro, Rádio Naústico do Rio, Rádio Nacional and Rádio NBC in Rio. The first AM stations will be installed in Manaus (940 kHz), Porto Velho (560), Belém, AM (560), Praia (690), Rio Branco, AM (690), Goiânia, AM (690). Cruzeiro do Sul (440), Beneficência, AM (690), Brasilia, AM (690), Brasilia, AM (720), Manaus, AM (720), Manaus, AM (720), Goiânia, AM (720), Brasilia, AM (720), Brasilia, AM (720).


Rádio Brazil in Caxias in the interior of Minas Gerais state suddenly went off the air some days ago when a group of personal enemies of the owner of the station invaded the studio, beat up the speaker and silenced the TX-equipment with gun-bullets. The reason for this noisy sign-off seems to be the reading on the air of an anonymous letter received by "someone" from "somebody else" in town. The station has been the scene of family squabbles before.

(from news-real Radio TV Bandeirantes)

Attached a list of future frequencies for Brazilian AM stations in the state of Minas Gerais. Preliminary lists have been prepared for Northern and North-Eastern States, Rio de Janeiro and Sergipe, Santa Catarina State, Sao Paulo area, Brasilia, Brasilia Federal District and the state of Para. I still have to prepare lists of Sao Paulo state, Pará and Rio Grande do Sul. These frequency changes didn't take place yet.
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, A. Maloney. Still another method for mounting air-core loop antennas.

RR7 A REVIEW OF THE NATIONAL NC-200 RECEIVER, C. Wolff

RR8 A REVIEW OF THE ARN-6 SURPLUS RECEIVER, T. Krakow


R22 BUILD YOUR OWN AUDIO FILTERS, P. Sullivan. A somewhat technical theory and construction article on inexpensive homebrew audio filters for the DX'er.


L16 BBC SKED INFO, D. Burns (1975)

L17 THE 1230 KHZ DOMESTIC STATION LOG, B. Lewis. (1975)

L18 A SURVEY OF LA SPLITS (UPDATED), R. Schatz. (1975)

L19 MEDIUM WAVE STATIONS IN ITALY, D. Monferini. (1975)

F19 A DX EXPEDITION TO COLOMBIA AND PANAMA, C. Obje. Account of a DXpedition through parts of these two countries.

F20 DX'ING IN THE FAR EAST, P. Taylor. Account of DX from various locations in the Far East.

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January 2, 1976

Mr. Kelly Andrews
819 Tipperary Drive
Greensboro, NC 27406

Dear Mr. Andrews:

This is in response to your reception report dated December 28, 1975. We have checked our logs and with the operator on the air at the time of your reception and have found that it indeed was WOHN that you heard. We therefore are happy to acknowledge your reception report as it is quite accurate.

We were testing one of our audio processing units on the air at the time as it was giving us some trouble the day before. Only a couple of level adjustments were necessary so that explains the rather short test period.

We are in a state of limbo right now as the station has been sold to a new owner and at the time of this writing the final settlement has not been made, so we do not have a regular testing schedule except for our monthly frequency check which is performed on the second Monday of each month between Midnight and 1:00 AM, USAST, that is! I don't want to promise that, but that would be the most likely time to catch us, as any of our other tests are performed on an irregular basis. This will change when the new ownership takes over. Hopefully then we can announce to the DX clubs, etc., our regular testing schedule, but that will take a few months yet.

For general information, we operate on 1440 KHz with a daytime power of 1000 watts and a PSA power of 3000 watts, both directional in what is essentially a circular pattern to the west. We are daytime only right now, but the new owners plan to apply for nighttime operation under the new relaxed FCC rules.

Since November 97, Radio Novo Mundo de Sao Paulo has been heard testing on the frequency 940 KHz. Tests are being carried out during daytime and at night I am mentioned: "Radio Novo Mundo transmitting on various stations in the frequency of 940 KHz of Sao Paulo in live experimental." Programs consist of popular international and Brazilian music, I.D.s and slogans as "Som brasileiro de Sao Paulo, or "Som brasileiro de renoma do Brasil." If a permanent transmitting license should be issued in time, the stations will be inaugurated on January 8 this year and will broadcast popular music, news and, and independent editorial. No power output has been mentioned so far. QTH of the station is: Rua Consagacao 2870, Sao Paulo, Brazil. Leading personnel are: Dr. Carlos Barbieri Filho, director Presidente (a well-known lawyer and economist in Sao Paulo and President of the World Anti-Communist League).
We operate a Gates BC-17 transmitter into a Gates matching phaser unit into our three ½ wave towers. For whatever that may be worth to you,

Our programming is Top-40 rock, with live jocks. WCON has had a record in the past two years or so of producing—many fine on the air personnel, obviously nothing fantastic but many of our jocks have found work at other large stations, WPGC, WJAM, WLP, WAC (when they were rock), and others.

We service the suburban area of Northern Virginia west of Washington, D.C.

Unfortunately, in the past WCON also has been known to be rather lax on verifying reception reports and cooperating with DX'ers. This disturbs us, and myself as I am also a DX'er from time to time, and we plan on making efforts in the future to better our relationships with the DX organizations and the individual DX'er. Perhaps we could sometimes be considered a good catch, and always a friendly one.

I hope this letter has been of interest to you and has possibly spurred you into hunting for us again in the future. Sometimes after the new ownership takes over here we are scheduled to get new transmitting and audio equipment which we will be testing on the air quite extensively, so maybe you could keep an ear open for that. I have no way of specifying a time for these tests yet, so perhaps you could write us again in the near future and hopefully we could give you more details.

Thank you again for your interest and again I hope this letter is sufficient verification as we do now have verification cards at this time. Obviously it is NOT such a long way to Tipperary after all.

Very truly yours,

Gary W. Blau
Engineering
Pt-24-10793

JON JUNGER - 1022 Catalina - Fort Wayne, Indiana - 46825

I have a record on Scout's signal here. Complements to those who put out the new Pattern Book. The improvements are larger and broader than in the past. We all know what this means. WCON, I think, has the best of the U.S. coverage. WCON 850, Ind., covered the air during the early AM & early evening of 1/25 as I led a log on WBBN 920 & WRAM Ind., both on 1440. I wasn't home during the daytime so I couldn't log KF3O 1440. Last week brought two new states verified, KFFO 1440, Ind. on 50's & WBC 1440, after months (still no WPGC nor W3GQ verified). WCON had a hard time while WZEM was on, until the X's apparent s/off @ 2:30. WCRN 540-TEST leaves only S00K on which to hear a U.S. station. Local WCON 640 on TEST, but not very strong, just a 10 watt transmitter. WCON 1530 on 540 is a very strong signal. WBNY 1340, 1460, WBNF 1440, both very strong.

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

JOHN SOMMER - 1022 Catalina - Fort Wayne, Indiana - 46825

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HARRY HELMS - 115 West Loey Street - Fort Mill, South Carolina - 29715

DX has been super dull of late, with no low band 10a openings since early Nov. & only the same tired old high-band stuff. The big addition here has been an Allied/Radio Shack SX390 SW RX, thanks to NASWA Fremont bulletin. It doesn't cover the BCS, alas, but it outperforms my AC-180 on SW - in other words, it is very very good, & has a 1k readout to boot. Also was the J. M. issue of Fremont. Turke & Calicos Valinde may have a BCS outlet on 1530. No mention of power or sked, but presumably it is // to their 4786k SW outlet, which has been active till 7pm EST. It has also been reported active around 6:30am. Both the Turke & Calicos are in the Bahamas & should be a possibility if they have sufficient power. Of course, there's no assurance they're on, hi, although I have heard their 4786 SW outlet. RPS3 Most welcome were recently in Istanbul-1016, along with pensants and a Turkish flag (!). Other varieties: KNJ6-600-TEST, Deutschlandfunk-1530 & pennant, v/1 WRAM-1330-TEST & tourist folder. Nice-1554 was re-reported to get Televisufmann de France's beautiful new v/q. Did any WO members hear any 7As in Oct. & Nov.? The way the signals were here on the EQ, I'm surprised that no one further W has reported reception. I'm glad to finally see some comment appear in DX NEWS concerning some of the more questionable loggings reported this season. But, as RPS3 said, most members are tuning all bands, believing one tomorrow. It's an exception, hi? & hopefully DX before Summer arrives.

ERIC PATER - 23-35 Bell Boulevard - Bayside, New York - 11360

Well, just as I was beginning to think CW were improving, We were hit w/a messy Aurora, hi. Little DX since 1st week of the month. W358-1490 tentaive on 50's, if that's what it was. 1/15, 12:16, W7T, u/slop. Finally, W358-1490 made an appearance - their pattern is definitely in trouble. On top band-like w/sub-zero WX (before it hit N.C., hi) & CW, clear o/XYQ & a non-existent WEPF. This, 12:31am, on top again 1/27, 12:21, superstrong, killing all competition. I tried all other needed stations up that way w/no results. TT-1440, 12396 1/25, last WDX. W3SD-1440 on top w/NNIS, O/WB, & WRX. MoR, 12:40. 89 above 550 mess assumed to be unY VHF. Day stuff tried 1/22 but no skip, so only WNGW/NW7A/WHP heard in the pre-600 area of the band, all surprisingly strong w/good groundwave. Someone on 540 w/aparent s/off IQ0. mentions of "siete...cinco kilocigas" // sq & so so kilometers. Who's this? TT & W7T1 11/16. 78.
HI! I've been a member for over a year now so I guess a re-intro is in order. These 10 years of being DXing since late 1973. My first DX station was K6DF, which I worked up on my "clock radio. It was so amazing I explored the dial some more & picked up K6DF-1000, K6OY-1050, K6XXD-600 (which Primo From the Sea) in the 1st year. From the 1st year I've stepped up to an old Sears DX-1800 & K6DR-48 for SW. I started out w/50W & I now use a Sanyo SW-ino loop & a 100W radio. The phone cable from the Sanyo loop to the radio is 500 feet long. I now have a 100W radio & a 900W power supply.

The 1st 10-year span of DXing was a real thrill & I'm now in the middle of my 2nd 10 years. This has been a big thrill & I'm looking forward to the next 10. My goals are to continue to work all the major DX stations & to work all the DX stations on all the bands.

I've been a member of the California DX Club for over 1 year now & I've been a member of the American DX Club for over 2 years now. I'm also a member of the California DX Club & the American DX Club.

I'm looking forward to the next 10 years of DXing & I'm sure I'll enjoy it as much as I have in the past 10 years.

CHARLES A. WOLFF
1/31 Proctor Road
Castro Valley, California 94546

A great big Bay Area Radio Freaks welcome to CAL AFTER.

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RAY ABRUDA - 40 Woodland Street - New Bedford, Massachusetts - 02744
It's been a cold month of January in New England, but DX for the past month has been good. 1/12: 0904-12:15 am - WASR-1420 R/c was not heard, just WHL under a loud local, WBSM. This will have to wait another month for a crack at the real thing. WBSM-790 of 1/29 also was tried but not heard. 1/31: 15-56-1:21 am - I finally received enough of WXY-1260 to send them a report. They were four on the channel / WEEZ/WDR/WMCC. 6:26-1:24 am tuneout that FW, CPOR-1570 almost in the channel. One I heard was near WBG-1250, which is now bothering everybody in E. Mass. MM 2/2 was not too good; GSHL-1530 r/c was tried for 1:10-1:30 am & some bits of TF were heard, but nothing else. I don't think it was POBF though I didn't send a report. ESBM & KPSB-1570 TESTS were tried for several days, but no good results. A few verifying for good reports in that part of the state. An very few this past week: WDK-540 WILX-1370 (#500) WT1-1530 & WB6-1650. This brings Heard/Verified to 1,007,500, all domestic.

STAT MORS - Route 3 - Bradford, Massachusetts - 01830
1/22: WJBX-1300 s/o 4:45 am, now all talk on AM per s/o & Barry Farber plunged as 6am talk host - if memory serves, he was WOR's AN man for several years. WICH-1310 briefly @ 4:48 u/WBRC. First time heard on 1/10. WHIT-1520 in again to 5am s/o - new pattern? Then a new one, WICH-1520, Exmore Va. to 5:15 s/o, good again, at times, old time s/o, then plug for FW. 1/23: Thanks to tip from Ernie, WBCO-740 Po heard o/ WKBW w/o/w, TT, DOE IDS & voice IDs, 2:03-2:5am. TT noted on 1300 at 2:15, no IDS & gone by 2:58. WBRC & Herb Jepke (WKBW) fighting it out on 990. FW, on 960, WBNY-Wilton, N.Y. to 5:30 s/o, then WBC. Earlier, WBB at 8:10 65-10:30. German again on 1570 u/CEML, 4:40m, fair to weak. 1/25 AM-11 TT on 1560 @ 1:09, no ID. TT on 1490 1:20 off on also FBC, no ID. Most of the morning was good. 1:27, WABC-AM s/o. The dB/ of the WBCO-1600 evidently now not AN-7, KPH 1360 at channel @ 2:15. GFV-1450 on top most of AN. GMNH-1450 again on top this week - pattern foul up Like a bomb, 2:19. CMR-1260 Mountain Que. over all 2:45. TT also on 1260, no ID. CHRD-1250 top channel and now on the air. Collected various signals but none given. The above is also given but no sign of them. TT noted almost continuously before sked WBBX test, during, & after, & no IDS audible. WVEH-1520 Chardon, O. ID 3:45. CWM-1340 Asbestos Que. good this AM, @ 4. FW, CCM-1520 Rugger-wood, N. B. to 5:30 and called WXXL-1450 so located at 14:27 hopening for Bagotville but only FOX/FOX & another weak EE. GMNH @ covering 1190 like a blanket. CUNL 1290 strong on 1560 & 2440-1410 covering WCPO this AM, but no GDY-1620. 1/27: WGSN-1050 w/ well o/WBBW's @ 5pm, looking for WXXL or WPAG. WSBZ-550 on day non-DA for Shutehead Valley flood watch, 5:19. WBBX-1420 noted w/road closings & cancellations also. 2/2: The 1940 FFC turned out to be GMNH, short ID as "GMNH Nouvelle" after am RX, then continuous TX. What I thought was TT was there again till 2:45. I don't know if I missed it or what. I gave the WWJ-2130 again, TX 1/30-2150. N. C. ET 2, WAB-1420 TT 2:18, KKBW-1530 TT, then CT 2:18, KKBW-1530 & WABC-AM, equal to WDRG on AN @ 3:26. 1069 had TT on 4 WSBAR-ids note TT, SS in background. ERCM-1600 strong again. (WEEH-1300 s/o @ 3, Stan - ERCM)

CONRAD A. DUCHER - 437 Essex Street - Saugus, Massachusetts - 01906
Welcome to the Wonderful World of the Wee Hours.
1/26: WRIB-TEST came through early @ 3:15am w/frequent CW IDs. 1/27: GMNH-1190 P.E.I. coming in strong @ 5am w/sports report. I need info on this channel. 1/26-27: 90-10:30pm, WBCH Chicago & WUSB Columbus playing back w/NX & traffic reports. 2/1-2/2: PJS-800 bombing in @ 8-9 plus playing R.iederer's "Martaban" program in EE & SS from 6:00-7:10pm. This seems to be a regularly sked program on Sundays. 2/2-2/3: I tried for n/c of KSPM-AM but only got the TX for those trying for WLD-850, Boston. Their TX ID has a recorded SID which is slow in starting and so it sounds like "W-V-W-R-R-R-U-U-HH-DH, Boston. Test was heard 2:40 & ID was every ten minutes. Later, everybody.

TWO AT THE NEW RATE FOR 2½ LESS THAN ONE AT THE OLD RATE! HOW'S THAT FOR ECONOMY? SEND IN TWO MUSINGS AT A TIME, FOR TWO ISSUES OF DX NEWS!
TIM MILLER - 410 Snyder Hall - UPR - Champaign, Illinois 61820

I have recently returned to school here after a month home in Chicago during the summer. Last weekend I added a second RX to my DX Den, the new realistic TRF long-range AM portable. I left the SX-110 home & am using this one here. I've found its performance to be as good or better than the SX-110 hooked to an LM. Anyway, here's the list of replies I've received from ERIC's 'EXCELLENT, your Motherland Memories, 1931 to 1972. (Thanks Cesar - muchas gracias! - ERIC)

HARRY J. HAYES - Star Route - Box 2260 - Gouldboro, Penn. - 1942

The highlight of this program is the super intense opening into Mexico City on 2:21/2:21 between 11pm & 12:30am. I was listening to WGO-1000 when a Mexican finals up @ 11:22 & took over the frequency when the SM-2 off! It turned out to be XEGY-1000, R. MI. With the opening was in the signal. Had great size & excellent DX. Many other Mexos were in, including the big guys on 730, 900, & 940 w/great signals. On 690 a tentative XEN, R. Sistema was way o/CHEP who had hockey. No IDs heard, but programming was somewhat upfront SS mex. Two announcements joked & laughed between records no ID at 3am. Saarbrueck! On 830 there was a station there, strong w/SS mx & announcer who just gave names of songs & artists between selections, this about 11:40pm. When I checked back after 12 they were completely gone. Does XMDA 920/12 listens? Opened by 12:30am. Other IDs 12/13, BJND-570, tentative causing strong bot here. 7:12, HJX-700, Call w/beautiful signal & Sutatenza IDs. 22/57 - 7:12pm, YVLA-670 R. Buenos Aires signal w/AMERICAN Moor. 7:58, YVLM-920 good, IDs after each song. 8:35, TKCE-625 Costa Rica was good hearal & Omega ID. 8:40-8:40 730-740 Fls. weak w/rr, 13:57, WGO-860 Ind. on TEST in fair to poor w/weak - very QRN from HIL. 2:25 WGO-1590 Wa. on ET w/announcer and songs like 'Theme From Insideout' TV Show & a messed up version of 'Peter and the Wolf.' 11:15, WGO-940 very strong, no such IDs from Paris. This is a daytime only station. 2:1, 11:15pm, WTR-1540 Pa. w/ad for store in State College. 1:35, WDR-1586 W. Germany w/polkas. I believe that's who it was, but too much QRN from T-Storms. Other Etxs in also on high band. That's it for now.

ERIC FADER - 23-35 Bell Boulevard - Bayside, New York - 11360

Hello-bello-hello. Not much o' nothing to report, but here's what we've got, hi. That XMDA 920/12 is the most poor showing, if any, I've heard a couple times. I know the WARQ/VEAN mess & CELF are in the set, but disappear when they went into NQ @ 12:20. For those w/short memories, all this was 1/29. The WW was 12:30 so I assume 'twas WSJG, but nothing close to an ID was heard. More 1/29: CHEF-1450 on top w/Cuban RR @ 12:45. It was a weak one & the listening around wasn't that bad. But I think I heard Portland mentions as local NQ IDs @ 1:04. Of course, earlier @ 1:01 I had heard a mention of watts & was almost sure it was a w/o of some kind (if not WSJG), but the log has no other IDs. Go. Who knows. WPEA-1370, WREG-1590 & WOR-1570, straight but not (not 11:18 w/o & not AN). Anyone needing WPEA (DOES anyone?) should turn around 1:01 if they don't change it. The announcement is read by a female o/song 'Love to Love You Baby,' & she mentions XR in Merrimack & concludes with 'Wendy.' The other one was a NQ market station, hi. Another female DJ is Lee Taylor AMs on '14-WFEL-1390.' She reminds me a bit of the old-fashioned WLOX-FM, N.Y. but much better style. CIIO-1410 in again 1:15/2:00 w/very good for an easy w/KNIS stations. The CIIO is a local, now to hear them at home, NO. All heard mainly were Conn. Mass. stuff that I hear at home, WRQ-910, WCNX-1150, etc. I'm not sure from my notes, but I think WOGQ-1220 was running AC on RX, not AI. Other stuff that was as portable's dial is even more crowded that car rig although more sensitive. 1510 became 1550 & 1600 became 1560, hi. That's all. I may not be back for a while, as next term now begins. Oh well - 73s. (DXing's more important than school!)

ER IC 25% BY 75%, SEND YOU BUSINESS THROUGH!
ECCOLY R. STRAUSS  1410 Bond Street  Asbury Park, New Jersey - 07712

Greetings, felicitations from the Jersey Shore. Domestic DX has been good the last few EAs here with more new stations lined up than I thought would be possible - a good approach to one of the most exciting and inexpensive methods of DXing - 1200 hours. Of course, many hours were spent at the dials. I don't have to work till 3 pm so I can get some sleep after a long WM.

Best new stuff - GHH-1190, N.A. regular here now on 1000 with a strong signal. Also know 2-500 Denver, the 700 Jamaican, many decent TA openings of late, about 1-2am, their SK. I sent 68 reports in December & only 25 returns so far, but in checking old world from the CQs, many took months to get back. Very nice to know WABAN-1470 years agood. WABAN-1470 was fair in the beginning. I still hope, I guess. We had a terrible storm last XM 2/2 w/10 mile winds, 100° temperature, & snow storm, worst storms in years since ocean temperature keeps rain from freezing. We snow fell away, we froze._weather. We froze from my LA antenna off, but miraculously the 20° was already stays intact. It's a perplexing problem to get them back hooked up with but the SK-I only use the XM to check what I usually receive on a frequency, then use the SK-I to find something different. But I think in the Sunshine State 2/24 would be good. Our thoughts will be far from the DXing form, here! I heard WTI-1230, Dalton, Ga., testing MX 2/2 from 1217-1am, then SST, but in rechecking @ 2107 till 2:37 they were - at that time - they're 10-000. Best DX to you all and joy. # C. - 2/29

GARRY C. EVART  - Lot 255  - 6000 Rivers Avenue - Charlotte Heights, CANTON, N.J. - 07920  

Back off patrol. I spent one week at my Inlaws'  house. All the DX stations I station was 6 in the morning, only six stations were received at night between 1400-14070K. Other frequencies in this range were complete jam or two or more stations coming in no matter where I rotated the SK. On 1224 I received a NY private WMR very poor, so I added an XM log w/M on 1100, came in at 2:57 and 12:30 with some fading. He gave coin box number 212-764-9979, as after calling that number a few times I finally got though. He says he used to be an NRE
call for 12 months, he's now in the Army. I bought the Realistic "Long Range TRP" radio for a good mobile RX as TRPs don't have problems with ignition noise. It turned out to be an excellent RX. In N.J. it outperformed my DX-160 & SK, I don't hook up my GM to it - I get equal results with or without it. Question to the mobile, 25 miles N of Richmond, on 940K I received a station from Montreal - gave station call CBG. I looked up in White's Radio Log but it is not listed. Did GM change its call letters or is this a new station of Canadian Broadcasting Corporation. Best of DX, RD.

BOB COLYARD  - 126 Forest Street  - Lakewood, New Jersey - 08711

Hi everyone. I've really got the building bug lately. Right now I'm scavenging parts so I can build an LW RX, but I'm afraid by the time I get all the parts together & finish it, Spring & Summer'11 be here. Also a few years back the Radio Amateur's Handbook printed a circuit for a device called the "select-ject" that was designed primarily for code use. With it an audio frequency could be peaked or notched. The frequency & bandwidth of the peak & notch could be changed independently. The simple circuit is capable of both selective & degenerative audio amplifiers. Well, I partly built one then while I was going to tech school, but I never finished it. So recently, I dug through my junkpile & found the old circuit board. I got the rest of the parts from a local wash & dry, but I should have read the manual because of signal clipping in the amplifiers. Too much gain! So my next project is to figure out how to bring down the gain without destroying the circuit or adding to many parts. Enough of this rambo-jumbo. DX has not been as good & even though I still have my noise problem, I have managed to log some new DX anyway. 1/28 - Algeria-559. 1/40 - 10K. Radio Difusao Portugal-665 2am while WMBC was off. I had to go over the

(Colyard) tape a lot, that's a tough language. I listened for GHH-1240 but WGBS was too loud to hear anything else. I finally heard my first TEST since being with the Club, W1220. I dug it out with Geiger. 1/27 I looped out W1220 to find WSHC-570, San Juan surprise! I've been logging from 1/29-1/31. At 12am I noticed KFL-640 real loud, as good as W660. Well, for now - 73s.

JOSEPH FELA  - 150 Robert Place  - South Plainfield, New Jersey  - 07080

Recent verifies are v's from WHAB-1050 & W1220, v/s from W1220 & W1220 & W1220 & W1220 all except WSHC were for Specials. Recent DX: 1/12 3:15-4:05am, WYXO-1220 TEST x 2 with Geiger. 1/15 2:37: WYXO-1220 TEST x 2 with Geiger. 1/17 3:08 WYXO-1220 TEST x 2 with Geiger, 1/21 3:10 WYXO-1220 TEST x 2 with Geiger. WYXO-1220 is now in the W1220 files, many other TAs also in. 12:45, WYXO-1220 briefly on top w/ID only, 1:03, CHRN-1600 off, 1:07, WYXO-1220 on at top times with unlimited DX program: 1/21 3:09, WTI-1220 ID on top. 1/24 3:01, WTSC-1220 ID on top. 1/28 3:08, WYXO-1220 TEST ID on W1220 TEST is good, ID on top times with ID. I think there is a bit of a problem with the 1220 ID, 1K-1600 with ID on top times with ID. Some other probably WYXO. We've logged over 1,000 KT basses ID during the TEST. I hope you fellows who count stations by hearing bits & pieces of tone caught the right tone - they were both the same pitch. Totals now 2,077/1,099. 73s.

HARRY SCHOOLS  - 1606 South Newkirk Street  - Philadelphia, Pa. - 19145

I joined the NRG last month & this is my first MOSing. As a short intro, I am 19 years old & I've been DXing off & on for about two years. I first heard of the NRG through a Radiophile magazine ads by WDBL & WSFJ of the WBO. For the time being I am doing my DXing w/a standard AM table radio. Until I reach my goal of 400 stations logged/listed on this radio, I will not graduate to fancy receivers & antennas. Using this table radio, I do make some DXing which makes me feel a challenge. My totals to date are 292 stations heard w/158 verified. For states I have heard 73 & verified 31. I need N.R. but WEPX-1370 does not seem to verify. I wonder why? Not much DX lately since I've been waiting on WSHC station to get a little long here so I'll say 73s. Welcome aboard, Harry! Please Musc often, and please double space? -ERG

JOHN SOMMER  - 1022 Catalina  - Fort Wayne, Indiana - 46825

MM 2/p brought TT on 790 2:45-3 which I assume to be KOHL Mont., good signal w/W1220, a v/w, & a politician. EPIA-1480 Mo. varied from excellent to barely readable on TEST. ASDA didn't make it through until 1146. MM 711 3:45/57 all was fine but nothing listed. Second time recently a strong tester c/W1220 - I just caught enough to suspect FPEA, Ark. W1220-1113 strongly on top w/1220-4:30 & before. I have a question for the experts on TAs: Over the last few days I've heard 2 radios which I believe were WBEQ Foreign Service on 1570 w/no het w/CSTE/CMF/CH/ID. It's not KN, so I assume it's an CN. (The BBC verified it but that doesn't prove anything - they would verify a newspaper if they thought it was a report.) I was told by W1220 their TAs is better, which is understandable, don't believe them. Dr. Dehero on AM, & not any more on FM. W1220-1511 says 42 reports were received on TEST from 21 states. He thought that's pretty good for

HAL WEDEREN  - 1008 17th Avenue  - West Bellevue, New Jersey - 07719

Hi! This is my first MOSing in nearly a year. I got a sample of IRCA's DX Monitor back in early January. DX NFSM is a much better publication! I'm getting very few reports. On 1/13 I sent out 23 reports from W1220 for reports of 3/16/75. How long should I wait before I send out 19? (No set rule) Hal - as for me, I send out the following Summer when DX is slow - ERG) Only new station here is the WGB-1220a pirate noted on 2/24 at 12:42am, w/woman talking. What is the policy on logging stations? 73s.

As they say in Chicago, "WCFPL:" "WE CAN FLY TO LOUISVILLE." If we de-, as they say in Salisbury, N.C. "W1220," WE SHOULD TAKE A PLANE."
DANE BURNS - 1002 Stevens Road #11411 - Woodbridge, Virginia - 22191

Not having Mused since October, I thought I'd send in a report while I'm home for a change. Nov. & Dec. were completely wasted months, DX-wise, as my employer, the USAA, sent me off to such exotic places as New York, NY and Houston, TX. Worst part is I now own an R-90OA & haven't even had a chance to figure out how to use it. Almost all DX has been confined to SSB, but before getting to results, another tip to novice DXers: Take care of your logs & verbiages especially if you lose interest in the hobby. I started DXing in the mid-60s with a transceiver and have been DXing ever since. I still haven't sent some of my old records & just recently my folks up in Mass. sent some v/ls they found stuffed in a box. These...
KARL JETER - 2816 Frontier Trail N.E. - Atlanta, Georgia - 30341

It's been a while since I missed last, so I think I'll take Ernie's advice & MUSE! DX of late has been sparse, mostly MW & an occasional SSB session. This past weekend, Ernie & I hit up Bantam to see if we could pick up anything from the 3rd part of Jan. brought (finally) some audio output of Langenburg-1568, 8x8 & a female talk, 1/19 @ 1:47AM. That same MM, I heard KZ7R-1540 with ID during ET @ 2:16. Best SSB session of new year occurred on 1/21 when I 'sat' on 1350 & re-located & re-transmitted. KZ7R-1540 was heard here - all this on 710, a frequency I hadn't tried in months! TEST's heard include WHJ-1580 very good on open channel w/dep, promo from "a Chicago Diner" & Mary Had A Little Lamb on open HOUSE & KGMA-1568 heard here. It seems I'm doing worse than usual, but the only other was WZX, another 710, heard poorly w/ WOR's mess - why do WOR's run a DRAFT 1030 & WBRE-1220 was heard by other Atlantic DXers. The latest KBGT was heard by MM 2/2 & KEV-1560 heard after WDXR-870 @ 1:30; Nice-IT-1554 called @ 11:45 w/male-female talk; r/c of KBGT-1340 noted w/1k TT, IDs @ 2:21 & 2:50 am, & oh yes, KFPA-1480 TEST heard also w/ID & TT 10:09 AM. SSB session 2/3 yielded WO-1020 & looped KDAA @ local NX & female, ads, then WOR, same female @ 6:41 & 6:50 PM. When we repeated tape of w/ID, WPE-1020 ID was heard in there @ 7:30. Up to 1540, KGBC Galveston heard first time w/wl, sports, & SID @ 6:05 PM. Out of time; I will mention the rest of verbiage received next time. 73.

JERRY STARR - WHQ Radio - Youngstown, Ohio - 44505

In reference to Dr. Tom's comments in the 2/2 DX NEWS that anyone of you who were members of a "reliable verifiers list" which was generally assumed to be a blacklist of a group of undesirable to the NRC, I might note that all the non-verifiers listed in his Musing have been verified by the exchange of QSL cards, and the situation is in a state of constant flux as the broadcasting business is. The reasons for the change in viewpoint are legion: change of staff, change of management, change of CE, underestimation of the need for QSL policies, change of ownership, the insufficiency of many radio people, QSL policies can change overnight. A former good verifier may hire a new CE & doesn't answer in the same way. However, that station may become more desirable as will answer prompts - it may happen next year, next week, even tomorrow. Considering the number of variables that enter into the situation & the total unpredictability of station changes, such a list, aside from the ethical standpoint would be impractical. Otherwise, MM must be misunderstood by notes on several faxes in the 2/2 DXED. WO-1580 has always been on 3-15 & is still listed as such in the new list - however, in Jan. '76 it was HEARD @ 2-2/15 which is a change, still third MM. WABN-1150 was listed in previous list on third Tues 1/15-12:30 but is not in the new list. It was HEARD in 1/76 at the same time as always so should be added to the new list. Let me add my comments about the "Mothes of Memories" GREAT! Keep it up - it gives an added dimension to DX NEWS. 73 to all.

WAYNE MURPHY - 1411 Phyllis Avenue - LOUISVILLE, Kentucky - 40219

Greetings all. I've added a pre-amp to my loop in the last few days, thanks to Dick Truax, who was nice enough to build it for me! It's furble fingers. It has cured the gain problem on the upper band (1000-2000 kHz). It's not sure if this was due to mal-alignment or that's the way the R-390 is, but in either case, it was a lot easier this way than trying to find someone competent enough (and cheap enough) to align it, though it now appears new member Bob Walker's brother could have done the job. In any case, I've...

(Murphy) found out first-hand that amplifiers aren't necessarily compatible with an urban environment. Daytime DX is almost impossible with the loop now as the amp yields more to the point of ridiculousness, including KBQ-1270 on 280, which isn't even a local. No major problems have been encountered at night, which is when I do most of my DX anyway. I haven't repurposed for a while, so this might be a good time for it; I'm 19, a sophomore at Bellarmine College, majoring in Accounting. I'll be home in the summer & then H1 one year later. I am also a member of IRGA. My primary interest is domestic, but I have been getting more into foreign of late. I plan to take a trip on the Greyhound "Amorpass this Summer, if I don't get the time off from work, and plan to hit as many places throughout the East & South. Details have yet to be worked out as yet. State of (station) KFL-790 Mont. on the R/C. I didn't think this was much of a problem since my null of WAKC, which isn't much anyway, goes N/NE. I thought I'd give it a try anyway & there it was (scientific, huh?) In any case, I've spent the last month or so learning Post-Posties to say, why not me out of there. (Bueye, Wayne! - ENG)

ERIC FAHER - 235 Bell Boulevard - Bayside, New York - 11360

Quick, people, it's time to verify them (if that's your line) - Billboard magazine has an article in 2/7 issue about a possible change to WJIT. Seems listeners don't like to listen to a station whose calls they don't pronounce phonetically (WADO-1280, for example) & SSBers apparently don't say "boom" for WHOM. Does that make any sense? I think no listeners know who I am - and I'm a familiar face. Oh well. Paul Mount: Beacon UUP location is Ottawa, I believe. With out of the way, DX: S7M indeed. 2/1 WQCR-1520 0/W/KWY w/wh, should be widely heard w/new DA. R. Paradise incredibly strong @ 5:40 PM w/to be 2800 kHz. MM 2/2 - Coupia tones. 390 @ lam (from 12:57) then WHB-1450 tentatively possible; 1400 @ 1:07; 1330 @ 1:08, 1140 @ 1:14. All were MM strong & strong, but I had no time to stick around. I hope some are reported so I can hear them. Hi! One on 1240 w/Musicalradio S7M, ID may have been WHB but the ID quality was low. Does WHPN's signal really go through them? And, on by Are they Musicalradio? Time was 1:10. There was a W7M there too, notoch. WHBD may have been off @ 1:10, definitely was W15S on 2/18 when I noticed something was missing. FFQ on 1320 & 1285. 2/2 WFBK-1450 @ 1:03 w/wh, WFBK-680 like a bomb @ 5:43, ditto WABN-590 5:44, WZAF WOA WOA WOA etc. still unheard! GQ poor through 2/6/ I forget AM DX & watching Johnny Carson now that my program calls for getting up @ 7 or so for my first period. DX GB-680 used to be CSM, or is Vane Jones simply diluting the "hairline accuracy" for which he old a reputation? Did anyone ever hear of Sonnet brand, cheap, made-in-who-knows-where radio? What is next eclipse on ECNA? What is wrong w/SM-2 when lower end starts to go? (It has a stronger high end - ENG) Back to DX: 2/7-76 KNRX-1000 1:03 w/wh, KBGT-1560 strong on ST 5:08, goods of corolary IDs, even a "testing 2-2-2" bit @ 1:22. They played 0/1 MoR & bubblegum r/r, 1968 type. KSL in well @ 1:09, all clear too. What is... - @ 555kHz? Please? 73.

CLIFFORD BARNES - 4506 Maple - Bellaire, Texas - 77401

In this Musing, I would like to make some comments on the antenna tuner, or PI-network coupler, whose plans are published in the 11/62 DX ED. Along with a Budget Receiver in the NRC booklet. Getting Started in NW DX/ED 1/62. First time to phase this into 8 turns of #18 wire on a core 5/16" long as recommended in the article. #24 wire can be used instead, & if the coils are spaced closely enough, they will be ample room for mounting the core (in this case, 1 5/8" diameter PVC pipe). The loop was cut into the PVC pipe @ 1 5/8" diameter from the 250 pF condenser recommended in the article. A second 365 mfd condenser, easily obtained, can be substituted for the lower-value component; In fact, with the lower inductance of the coil described above a condenser of higher value will be needed. As to how well the tuner works, I don't know, as the device has yet to be completed. And now, a
Starr's article on the WTVR was very interesting. How about everyone writing a few letters for the ADC next year? I've logged three new states this year thanks to those hard workers. Only a few guys have been writing letters this year. Help take the load off their broad shoulders & try a few letters! That's all, DX & report! 73.

JAMES E. CRITCHETT - 3900 Colfax Lane - Anderson, California - 96007

Regular DX for me came to a screeching halt on Sun. Aug. 24, 1975 when I left w/a busload of Senior Citizens for Alaska. I didn't DX, even there. I met a widow lady from near Anderson, & after a further time of getting acquainted, fellow DXer Clarence Freeman offered me a ride in the car of his to Anderson. We got there Sat. Jan. 24 when I moved my belongings to this house. My SFR-4 & Sanserino Loop are set up on a table in the bedroom, & I started DXing Wed. evening, Jan. 28. DX time is limited from about 8am to 5pm, except Wednesday evenings when Frances attends for 3 hours for 10am, and 2 hours for 10am. I started at 5pm, & have reached 130, 81 stations have been IDed; others heard, but no call letters yet. No hurry. WBB-750, WWO-830, WASH-840, WLL-870, WLS-890, WLL-1040 & WLL-700 best. Don't count on long DX reports from here. Thanks to all you who write me every day, and again, G'DAY! 73. (CONGRATULATIONS, JIM & FRANCES! - ERO)

CURTIS D. ENGBERG - 80 Concord Road - Wayland, Massachusetts - 01778

1/12 The ETS of newies avoided me that morning. Lately they are back at the 830 & 845. No ID signals on WBB-750. An ETS of newies avoided me that morning. Lately they are back at the 830 & 845. No ID signals on WBB-750.
M.O.T.H.R.A.L.L. MEMORIES

CHAPTER XII - "CHICAGO HEIGHTS"

(part 2 of a series by DICK NORDRUP)

The oldest station in Chicagoland was CHICAGO, WGN, which was licensed in 1921. They had 1,000w on 560 & later increased to 1,500w. It was one of several

severingighthouse stations of the early days, along with WDIA, WSB etc. An auxiliary station, EMWA, was added in 1921, as well as an experimental facility, EFJW, which had moved to Chicago from Hastings, Nebraska.

WGN was indeed a Chicago oldtimer, but was eventually moved to "greener pastures," for a time in Cleveland & then on to Philadelphia, where WJMJ on 560 was WJMJ, Gary, Ind. A bit later, licensed in 1926 & sharing time with WJMJ, a farm northside station. The latter was originally on 1330 dividing time with WJMJ. WJMJ was about the same spot on the dial then as now, 670 &, in the mid-20s shared the band w/WJMJ, at the Rainbow Gardens on the N side. They were owned by Calumet Baking Powder Co. & they ran a late show (to 12 or later) featuring a Tom & Jerry type programming. WJMJ was bought out by WNN & then had 670 to themselves. WNN also has always been about the same as now. Licensed in 1924, it did operate briefly in 1928 & 123 under the call WNN. A "silent" station to WNN; it made its debut in 1926 when WNN also took over the air. This was owned by Liberty magazine, a weekly publication, & was, I think, a Chicago Tribune venture also. WNN held forth on about Dick & was owned and operated by THE EDEWATER BEACH HOTEL on the N side w/power of 750w. This was a grand old hotel with its Marine Dining Room & some of the finest dance orchestras of the time as well as cl ex was featured. WNN took to the air in 1926, sharing time w/WNLS until it expired about 1951. WOJ, of course, stands for "World's Largest Towing" (Sears, Roebuck & Co.). They were farm-oriented & their main programming featured the weekly "National Barn Dance" on结构性. This also predated WJMJ's "Grand Ole Opry" by a year or so. Sharing with WLS was WJMJ in Zion, Ill. This was one of Wilbur Glenn Voliva's, a religious type, who believed the Barn Dance could be used to preach: fear by sending sermons predicting the end of the world, as well as his diet. He was ever giving distributions against pork & oysters - "Hogs, the scavengers of the earth, and oysters, the scavengers of the sea."

More CHICAGO next week.

NYC AREA GET-TOGETHER:

No, HQ isn't having a get-together, but the M-QD-men (Metropolitan Area DX-ers, a multi-club group) are.

WHERE: At Malcolm Kaufman's house, 32-18 73rd St., Jackson Heights, Queens, N.Y., 11370 (212) 457-8217

WHEN: Sunday, February 29, 1976 at 12 noon

WHAT: A multi-band, multi-club OGT w/DX talk, refreshments...

DIRECTIONS: By subway, take the IRT 7's Queens line to 74th St., then Broadway walk to 73rd, turn right, pass Long Tails. Slops, bank, walk about 3 blocks, & it's on the left hand just past 34th Ave. By car, call Malcolm or organizer Chris Vannan at (212) 595-4747.