



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

VOLUME 53 ISSUE 16 January 27, 1986

DDXD Column Change Remember DDXD column will be split into two smaller columns. DDXD - East will be headed up by Dave Schmidt. DDXD - West will be headed up by Nancy Hardy. The imaginary division line will be as follows. DDXD - East will consist of reports from members living in the Central, Eastern, Atlantic time zones. DDXD - West will consist of reports from members living in the Mountain, Pacific and points west. For those of you living in the center of the U.S. you may report to the one that serves your area better. Nancy Hardy's address is: 2301 Pacific Ave., Aberdeen, WA 98520-4527. Dave Schmidts' address can be found on Page 5. I'd like to welcome Nancy on board, and now lets put her to work!! And now Dave, can get down to hard work and earn a living, hi. See page 4 bottom....Have fun Dave.

According to Bill Coleman, WFNC Fayetteville, NC has moved from 940 to 640 KHz. Still 10kw D, and 1kw N. They moved Jan 15th at 7:45am.

Page 14 starts the second part of an article by Mark Connelly, "The MWT-1 : A Medium Wave Tuner / Preselector with Regeneration Capability".

CPC TESTS --- Times listed are EASTERN Local Time

You'll get better returns if you include an SASE with your report

- Jan 28 WIFX-1000 Jenkins, KY 0130 - ??? Program will consist of tones, music, Tuesday IDs. Last tested w/NRC on 10/18/71 !! Reports to: Don Mussell, CE, Box 312, Jenkins, KY 41537. Arranged by John R. Malicky for the NRC.
- Feb 10 WDCT-1310 Fairfax, VA 0100-0200 Program will consist of tones, IDs and music. Monday 1000w ND 0100-0130, 5000w DA 0130-0200. Reports to: Dave Schweikart, WDCT Radio, Box 1310, Fairfax, VA 22030-1310. Arranged by Dave Schweikart himself. (Thanks Dave - HQ)
- Feb 10 KURL-730 Billings, MT 0200 - ??? Test will be run with Proof of Performance Monday test. Reports to Mr. Clark D. Prim, CE, KURL Radio, Box 31038, Billings, MT 59107 Arranged by Wayne Heinen and Ken Chatterton for the NRC.
- Feb 11 WIFX-1000 Jenkins, KY 0130 - ??? Program will be same as Jan 28th test. Tuesday Reports go to the same as listed above.
- Feb 17 WVVW-1570, St. Marys, WV 1000w 0100-0130 with voice IDs, tones, music. Monday Reports to: Robert Eddy, Owner/GM. All correct reports will be verified by letter, SASE requested. Prepaid calls ONLY, 304-684-3400, NO COLLECT CALLS. Arranged by Kermit Geary for the National Radio Club.
- Mar 31 KPCR-1530 Bowling Green, MO 0300 - ???, Voice, Code ID's, and music will be Monday used. Reports to: J. Paul Salois, President, KPCR Radio, Box 1, Bowling Green MO 63334 Arranged by Wayne Heinen and Dan Bartek for the NRC.

LOOK INSIDE:

- | | | |
|-----------------|-----------------------------|----------------------|
| 2.....AM Switch | 3.....DDXD | 6.....IDX |
| 8.....BANDSCAN | 10.....CUBA Bdcst Ltr | 14.....Part 2, MWT-1 |
| 21.....MUSINGS | 24.....Your Zip +4 Address! | |

Listen to HCJB "DX Partyline", 0230 UTC Saturday night, for the "AM Interlude" Program with Wayne Heinen. Other stations carrying NRC items include Radio Earth, Radio RSA, WHBI, and KCBI!

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

AM SWITCH

Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

CALL LETTER CHANGES

Old call:	New call:	
1000 KKOS CA Vista	KMLO+	+KMLO never used KKOS, will not make this change, KKOS set aside
1210 *New AB Slave Lake	CKWA	
1310 CKOY ON Ottawa	CIWW	

APPLICATIONS FOR NEW STATIONS

1030 NY Avon: 1700 D3
 1170 NC Quinby: 1000 D1
 1180 GA Pooler: 5000/500 U4
 NC Carolina Beach: 2500 D1
 NC Linton: 2500 D1
 NC Orangeburg: 1000 D1
 SC Timmonsville: 5000 D3
 1190 SC: Atlantic Beach: 690 D1

GRANTS FOR NEW STATIONS

None

APPLICATIONS FROM EXISTING STATIONS

1290 WRCP RI Providence: night power to 5000

GRANTS TO EXISTING STATIONS

1030 WLMV IL Vernon Hills: antenna to D1, power to 500 (new, not on yet)
 1300 WGRC NY Spring Valley: changes in DA pattern
 1520 WLGC KY Greenup: increase antenna efficiency (remove limiting resistor)
 1560 WHEZ MI Portage: power to 5000, remains D3 with changes in antenna

OTHERNESS

640 WO1 IA Ames: target date for fulltime operation is 2/1/86
 890 *App CA Pismo Beach: application for new station returned
 1000 KKJB TX Marion: requests extension of CP for new station, relocate XR
 1270 KOKN OK Claremore: formerly silent is back on with rock oldies
 1500 KDJC AR Jacksonville: is correct call here for former silent KIEL, reported as "KBJC" incorrectly last week, typo copied from one of our sources, sorry.

A rather slow week, due in part to the short work weeks at the FCC due to the holidays.

73 and Good DX,

Jerry & BKF

Jerry Starr & Buffalo K. Foonman

GREENWICH MEAN TIME: Expensive atomic clocks at the Royal Greenwich Observatory will be allowed to run down and stop as the installation that set the world's standard for time comes to rely on clock readings provided from France. The decision comes just a year after the centennial of Greenwich Mean time was celebrated, when timekeepers looked back fondly on how their world had progressed from the grandfather clock to atomic technology accurate to one-millionth of a second. John Pilkinton, head of time-keeping at the Royal Greenwich Observatory, said that the observatory's six atomic clocks would be allowed to run down because it costs \$70,000 to \$140,000 a year to keep the clocks going. The observatory which has been keeping time since its founding in 1675, will now rely on the International Organization of Legal Metrology (weights and measures) in Paris.

DOMESTIC DX DIGEST

Dave Schmidt, 42 Chelwynne Road, Castle Hills, New Castle, DE 19720

here is the NRC column which changes type as often as we change our socks! When sending your items in, please type or neatly write, use one side of the paper, EST, current stuff (nothing over a month old). And, here we go:

SPECIAL

540 CHUR CN NORTH BAY - Per verie, power is 10000/10000 24 hours a day, using Motrola CQuam Stereo. (JF-CN)
 1200 CFGO CN OTTAWA - 12/30 1340 On ET on new freq., w/10, said would begin operation on new freq. 'soon'. (4S-CN).....1/4 1602-1614 w/Audio Tests, various promo anc'ts for imminent freq. change from 1440. (KUGG-CN) Imminent, is that something that comes in a tube? (DS)
 1380 WRKG OH LORAIN - 12/1 0600 weak in mess w/s/on w/Instr. 55B.(JF)
 1400 KITZ WA TACOMA - 12/31 back on after 1 year silence per newspaper item, noted 1/2 1900 w/automated oldies. (KF-WA)
 1460 KARR WA KIRKLAND - 12/31 Station is now off the air. (KF-WA)

DX TESTS

810 WSJC MS WAGEE - 12/26 0215-0245 xInt w/code ID's, music, ID's, o/KC40, WBAI-S20 splash. (GL-MS)

MIDDAY - MIDNITE

720 WXXY GA HOGANSVILLE - 12/1 1715 fair w/B/ool music, ads. (JF-CN)
 770 WKL NC ROCKINGHAM - 1/5 1729 s/off w/Pink Panther theme.(JS-Ch)
 810 WQIZ SC ST. GEORGE - 1/3 1731 black gospel music til s/off.(JS)
 870 WFLO VA FARMVILLE - 12/14 1700 ending Scott Shannon's Top 30 Countdown, fair signal. (HJH-PA)
 WGTL NC KANNAPOLIS - 1/3 1727 loud at s/off w/Perry Como's Lords Prayer. (JS-Ch)
 890 WQIS MS LAUREL - 1/2 1758-1816 good w/no sign of WLS, urban/dance music, no live anc's, only recorded promos between selections, s/off consisted of ID dual w/hattiesburg, slogan is Q 89, OC left on at least til 1821 when I tuned out. (JS-Ch) Noted SAH against WLS at least til 2330 on 1/12, while retubing WJ180's here, very strong at times. You say your looking for their phone # Al Kesnick? (DS)
 920 KOKK NY LAS VEGAS - 12/31 1931 weak u/KOLO w/10, sports news.(KF)
 930 WLSI MS JACKSON - 12/30 1320-1322 good w/talk show, ads.(GL-MS)
 KAJK WA YAKIMA - 12/31 1934 long sought, good w/Hit radio ID.(KF)
 1020 WJEP GA OCHLOCKNEE - 12/1 1655 xInt way o/KDKA w/contemporary religious music, UPI news. (JF-CN)
 1090 WQDE WI RIC LAKE - 1/9 1746 brief s/off w/FA mention. (B-WL)
 1120 WJST DC WASHINGTON - 1/5 1715 atop KMDX w/gospel music til s/off, 'The Gospel Train of Washington', still 1000 watts, CP isn't on yet. (JS-Ch)
 1150 KVIA TX DALLAS - 12/30 1814-1817 good w/oldies, sports notes up til s/off. (GL-MS)
 1160 WFEN HI FENTON - 12/1 1605 good o/WAAB w/local news, mention of 1st day on air. (JF-CN)
 1170 WNY NY MECHANICVILLE - 1/4 1648-1650 way o/WWA w/s/off, 55B.(KUGG)
 1180 KTHN TX HUMBLE - 12/30 1804-1807 fair u/FOX w/rock music, splash from KLIO-1190. (GL-MS)
 WFGN SC GAFFNEY - 1/2 1723-1745 very loud w/no whad til s/off w/Instr. 55B, rock music on 'the Upstate alternative'.(JS-Ch)

WZZX AM 78-5000 WATTS

- 1100 WSAI NC GRANHAM - 1/8 1730 s/off w/mention of 1000 watts during non critical hours. (BM-WI)
- 1200 WAGE VA LEESBURG - 12/14 1623 fair w/promo, PSA for AA, were you listening, Dave? (JF-CN) No, missed that, but YOU didn't!
- 1210 WILY IL CENTRALIA - 1/5 1740 w/radio auction promo, ck music. (JS)
- 1240 WTAM MS GULFPORT - 12/24 1344 good w/ad, ID. (GL-MS)
- 1310 KAAM TX DALLAS - 1/3 1758-1803 good w/oldies, Top 5 countdown. (GL)
- 1320 WKJW MS PICAYUNE - 12/24 1342 fair w/news, female anc'r. (GL-MS)
- 1370 WALK NY PATCHOGUE - 12/15 1747 fair w/rock oldies, s/off. (HJH-PA)
- 1380 WKBJ FL ST PETERSBURG - 1/2 1712-1714 xint way o/WYNN w/traffic report, weather, 0 105 ID's. (GL-MS)
- 1390 WEGP ME PRESQUE ISLE - 1/5 1725-1740 in/out w/WCSC/WFBL w/rock music, many cancellations. (HJH-PA)
- 1420 WCRE SC CHERAW - 12/22 1745 noted w/many weather reports, ID, pop music. (HJH-PA)
- WWSR VT ST. ALBANS - 12/21 1730 fair at times w/mix of Christmas music and oldies. (HJH-PA)
- 1460 WCEI MD EASTON - 12/26 1700 ID thru mess, being noted a lot more lately, you take care of them, Dave? (HJH-PA) Not yet!
- 1510 KTIM CA SAN RAFAEL - 1/2 1901 fair w/KWA w/Big Band Blend ID, ads w/mention of Bay Area. (KF-WA)
- 1570 WFLR NY DUNDÉE - 12/24 1745 end of Motor Sports report, ID as Finger Lakes radio. (BM-WI) Which Finger?
- WKOL NY AMSTERDAM - 12/29 1805 in/out quickly w/jingle/ID. (BM-WI)

MIDNITE - MIDDAY

- 700 *UNID 1/3 0255-0550 very strong TT o/KGRV til their s/off then o/u WLV, no ID in 2 1/2 hours! Who be it? Surely, KFAM not this strong. (KF-WA) It was a WJOT-640 spur! (DS)
- 730 *UNID 1/6 0553 someone here w/several selections of unanc'd march music, a DX TEST? ERG working for an AMer now? Faded by 0600, natch! (JS-CH) WAGE is near him?
- 750 KJEL MO LEBANON - 1/9 0815 w/ID, PSA for Lions Club. (BM-WI)
- 770 *UNID 1/6 in o/WABC most of AM w/Ch feed from satellite but NO ID's in holes provided, didn't even ID at top of hour! Satellite News Network feeds at 0200, 0300, 0400, wasted over 3 hours on this thing, WJW maybe or an ET? If reg. sked., the ID machine wasn't working! (JS-CH) Hello? Is this the antenna farm at Grand Island?
- 830 *UNID 1/6 powerful OC o/WCCC most of AM, no ID's but suspect local WLD from strength. (JS-CH)
- 840 WHAS KY LOUISVILLE - 1/6 0220+ noted off this AM. (JS-CH)
- 910 WALT MS MENDON - 12/1 0356 strong w/pop music, 91 T ID's, weather, not heard since WKKK days. (JF-CN)
- 1200 WKOX MA FRAMINGHAM - 1/2 0105 60's/70's rock music, Metro west weather, ID. (BM-WI)
- WAGE VA LEESBURG - 1/9 0822 w/ID, Sound Choice slogan. (BM-WI)
- 1100 *WWE OH CLEVELAND - 1/6 noted off all AM. (JS-CH)
- 1190 KHAD MO DESOTO - 1/9 0824 w/ad, ID. (BM-WI)
- 1230 WMRZ IL MOLINE - 12/28 fair o/din w/rock oldies on ham dipole! (JF-CN) Who cares...what time was that? (DS)
- 1430 WLRQ TN MADISON - 12/1 0241 weak w/CJUL/WMNC w/Ch music, ID, last heard as WENO in '73. (JF-CN)
- 1450 WNIW LA NEW ORLEANS - 1/3 0139 in/out quickly w/ID, 'Unforgettable' music. (BM-WI) And he soon forgot! (DS)
- 1570 WYTI VA ROCKY MOUNT - 1/6 0601 s/on w/instr. SSB o/all. (JS-CH)

**WHAT'S THE BIG NEWS?*

Last week we gave a short note, now it's official, as of 1/1, I've taken over the business from DC north of Hutton Monitoring Service, and I'll be the one sitting up listening to those funny tones! This includes about 200+ checks a month of AM-FM-TV stations. As we get a sked set up, then the new f/c list will come into being.

MS-CN/Morris Sorenson, Milton, ON/1932 Deforest Crosley, Indoor Lk
 BM-WI/Bob Mielcerek, Milwaukee, WI/R70A, Kowalski Loop
 JS-CH/Jerry Starr, Hubbard, OH/HQ180, Loop, Lk
 GL-MS/Greg Ledbetter, Purvis, MS/Magnavox DS443
 KF-WA/Keith Ferguson, Issaquah, WA/SX62, Lk
 RUGG-PQ/Andy Nugg, Nuns Island, PQ/TKF
 JF-CN/Jeff Falconer, Clinton, ON/NeRD 515, Radio West Loop, Folded Dipole
 HJH-PA/Harry Hayes, Wilkes Barre, PA/HQ180, SM2, ICF2001

New computer this week? Nah...an old UNDERWOOD 'FIVE' that was rescued from the junk pile at WKKK. With all that's going on here lately, this was just a bit quicker to do than hooking up the computer!

And don't call me Chuck!

73's - Good DX!

ST. PETERSBURG TIMES ■ THURSDAY, DECEMBER 19, 1985

DJ suspended 2 days over 'Reindeer' song; returns to air Friday

Compiled from AP, UPI wires

DAVENPORT, Iowa — A disc jockey who played the song *Grandma Got Run Over By A Reindeer* 27 times in less than 3 1/2 hours will be back on the job Friday after promising to behave himself, officials at the radio station said Wednesday.

The decision to reinstate Jack Daniels came after WLLR received hundreds of calls — some from England and Ireland — on his behalf, said Ray Randall, program director.

Daniels was placed on indefinite suspension Tuesday after he had continued to play the song in defiance of Randall's orders, said station manager Larry Rosmilso.

Daniels said he decided to play the song to get himself and his listeners in the Christmas spirit.

Randall said Daniels will be on probation for 90 days and has received a reprimand in addition to the two-day suspension.

"WLLR management, considering different facets of the incident, decided it was not malicious in intent and there was no actual damage to the station and listeners," Randall said. "Therefore, we feel the reprimand and probation is enough."

Rosmilso and Daniels repeatedly denied that Tuesday's incident was a publicity stunt, but both admitted that the station had received an enormous amount of national publicity.

"I didn't think it was that big a deal," Daniels said. "The station made a big deal out of it after I did it, and now I'm getting calls from the BBC and just about every place you can think of."

Randall said station management was influenced by the calls.

"I've been on the phone most of day with radio stations over most of country. Support is 60-40 in favor of Jack," Randall said.

WLA TOM TOWERS

A RADIO REVIEW

The Sparkomatic SR430 Radio

Yes, this is the real name of the radio. Having had enough of the cracks and smart remarks from the passengers in my old military truck, I broke down and bought a car stereo. Being a long-time AM fan it had to have AM Stereo. The big question... was it worth it? YES! This particular unit has FM, cassette tape and AM stereo using the Motorola C-Guam system. The physical dimensions are 7 3/32" x 2" x 6". Total power output is a healthy 20 watts per channel. Sensitivity on this AM band is 30 microvolts for a 20dB s/n ratio. What all of this translates to is that the AM listener has a good a sound as the FM crowd. Helping the AM section is the presence of a rare control for consumer radios — an IF bandwidth control, wide position having approximately 12 KHz of width. The narrow filter is approximately 6 KHz wide. On wide, given a local signal, AM is hard to distinguish from FM, which I believe the goal of AM stereo has been. For DXing, this set has good sensitivity, WSM-650 Nashville can be made out at high noon, along with station in Alabama and South Georgia. A digital frequency display, clock and five memory channels, and a five-band equalizer complete the package. For a price of US\$220.00 I am definitely pleased. One Big problem: no stereo from stations using the Kahn system. However I have seen ads for an adapter for about \$50.00. That might be my next equipment review.

Malcom Maxwell

INTERNATIONAL DX DIGEST

Chuck Hutton, 437 Hardendorf Ave., Atlanta, GA 30307

Times are GMT

For ELT substract 5 hours.

Deadline: Monday

Now that you guys have struggled through all that DDxD garbage and have gotten down to the heart of the bulletin.....

- 179 EAST GERMANY Dranienburg 12/18 0634 vocals, then male anncr, poor signal. (Vernon)
- 182 USSR unid 12/21 1840 male anncr, then piano mx, fair signal. (Vernon)
- 530 USA TIS at Washington National Airport 1/2 at 0320, 25 miles from my OTH. (Mestre)
- 531 ALGERIA Ain Beida 0410 11/27 AA talk, good. (Hakiel)
- 535 GRENADA 1/2 0155 very strong, at 0200 gave SID, played NA and went off the air. Gave mailing address as PO Box 34. (Mestre)
- 630 ALASKA KJNO Juneau 12/19 country mx, 0436 contest for 10 minute free phone call anywhere in the world, seems c&w now. (Vernon)
- 684 SPAIN Sevilla 12/21 0505 good w/man and woman in SS. Noted many other evenings through 12/31 even in relatively poor cx. (Eckman)
- 710 COLOMBIA HJNX Medellin 12/17 0527 rr mx, EE then male anncr, SS, 0531 mentioned Superrrrr Radio. Best LA rception here then yours truly went and erased the tape. (Vernon) Stay away from my tape library you vermin
- 730 MEXICO 1/2 0025 very strong and clear, man narrating bullfight in SS. Commercials for "Cerveza Superior". Station ID at 0030 as XEX. Later heard again at 0205 with female newscaster in SS. (Mestre)
- 750 MEXICO Acapulco 1/2 0210 Radio Sensacion with man reading SS poems about new year, followed by SID. (Mestre)
- 760 CUBA Radio Reloj Guanabacoa 12/17 0603 ticking clock noted w/SS LA or CA, continuous mx, this obviously another stn. SS noted also on 640, 770, 1000, 1010, also WML-870 was like a local!! (Vernon) Like a local means within 100 miles to you guys in the Yukon, right? Chuck
- 760 CUBA (my OTH until November, 1960) 1/2 0220 R. Reloj, SS news. (Mestre)
- 765 SENEGAL Dakar 2145 12/23 good in WABC stop w/guitar mx and chants // 4890. (Eckman)
- 800 NETHERLANDS ANTILLES Bonaire 1/2 0044 PUB with ID in SS as Radio Transmundial, program called Revista Mundial in SS dealing with drug rehabilitation. (Mestre)
- 825 ST. KITTS Basseterre religious program in EE. Great signal. (Mestre)
- 830 BELIZE 1/2 0115 news in EE, SID. Poor to fair. (Mestre)
- 830 DOMINICAN REPUBLIC 1/2 0058 HIJB with merengue mx, ID at 0100. Poor to fair reception. (Mestre)
- 854 PERU OAX4A Lima 0418 12/4 man and woman in SS talk, fair. (Hakiel)
- 891 ALGERIA Algiers quite good many evenings, e.g. 12/21 0511 AA talk and chants. Level equal to WLS this AM. (Eckman)
- 900 MEXICO 1/2 0337 XEW, La Voz de la America Latina, solid copy as good as local. Legal assistance call-in show. (Mestre)
- 940 MEXICO 1/2 0850 XEQ SS mx, SID, very poor. (Mestre)
- 954 TURKEY Trabzon 12/19 0323 woman anncr, then AA type mx, was // 1017, TRT1, was not local pgm as listed in WRTH, couple of years ago had Radio Trabzon programs! (Vernon)
- 963 INTERNATIONAL WATERS North Sea 12/21 1940-1959 country mx, then silence, no ID or anncrs, 2000 religious program "Sacred Name Broadcast", 2030 local anncr gave USA address also B.S.F. Box 66F, London WCI, but no ID's, 2031 religious program, missed title but was #205 in LifeStyle series, reception lost at end 2101, noted rr mx at 2103 but very weak. No local talk noted at all or ID's, maybe reduction in power at 2101, fair reception before. BBC on 882 and 909 still in very well at 2104. (Vernon)
- 1060 ALASKA KASH Anchorage 12/19 0650 still country mx, catchy jingle now though "Alaska's Kind of country, Cash Radio", ex KTNX. (Vernon)
- 1107 EGYPT Batra 0004 11/5 AA songs by male, poor. (Hakiel)
- 1143 USSR Kaliningrad 2210 11/2 man and woman in RR talk // 1386, fair-good. (Hakiel)
- 1179 SWEDEN Horby 2230 11/21 electronic mx IS, Radio Sweden ID then into SS talk, fair, also 2200 12/28. (Hakiel)
- 1251 LIBYA Reaganville good w/AA talk 12/23 2115 w/strong het present. (Eckman)
- 1270 ALASKA KIAM Nenana 12/19 0700 male anncr following religious program then s/off mentioning Box 474 zip 99760 and 5000 Watts, then SSB. (BV)
- 1287 CZECHOSLOVAKIA Prague 12/24 0447 assumed with light mx. Fair signal. (Eckman)

- 1323 EAST GERMANY Leipzig 2359 11/17 relay of R. Moscow, R. Moscow theme song, poor. (Hakiel)
- 1332 ITALY Rome 12/24 0509 very good w/man in II. (Eckman)
- 1349 MAURITANIA Nouakchott 12/23 2120 assumed w/fair signal w/AA chants. (Eckman)
- 1377 CHINA Haixia 2, Fujian, 12/21 1735-1745 mostly CC talk by woman then male anncr 1745-1754, Chinese mx w/woman anncr, 1755 male briefly then gone, probably a s/off but no special mx or IS. This probably intended for Taiwan. ORM from France! (Vernon)
- 1386 USSR Kaliningrad 2212 11/2 man and woman in RR talk // 1143, fair. Also 2303 12/30. (Hakiel)
- 1386 UNID 12/24 0350 strong carrier w/SAH but no audio discernable. Also noted 1/1 0520 but still no audio. Anyone else hearing anything here recently? (Eckman) Sure, plenty of WAOK splash...Chuck
- 1395 ALBANIA Lushnje 12/23 2013 noted w/early fade-in. In EE from 2030-2100 // 7065 KHz. Xint signal at 2226 w/Internationale. (Eckman)
- 1458 ALBANIA Durres 12/23 2046 very good w/talk, IS at 2058. Noted parallel to 7090 at 2102. (Eckman)
- 1467 MONACO TWR Monte Carlo 12/23 2045 good w/religious mx. In EE at 2234. Also noted at s/on 0426 12/24 w/IS and pgm in unid lang. (Eckman)
- 1476 AUSTRIA Vienna 12/24 0401 very good w/man in GG; rr mx heard at 0441. (Eckman)
- 1494 USSR Leningrad 12/19 0331 male anncr w/EE service, also // 1141 (1143? Chuck), 1323, 1386. (Vernon)
- 1503 POLAND Stargard 12/24 0505 strong w/piano mx and SAH also present. (Eckman)
- 1512 BELGIUM Wolvenstem 1/1 0546 assumed w/xint carrier, TT at 0548. Pips at 0600, brief musical signature, and then talk by man, possibly in DD. Will have to try again for positive ID. (Eckman)
- 1521 CZECHOSLOVAKIA Cizadice 11/21 1824 noted w/EE rr Cnr stms mx, xint sig 1825 woman anncr. (Vernon) 12/24 0409 outstanding signal w/holiday mx. Time pips at 0500 followed by Hvezda IS (as listed in 1980 WRTH. (Eck)
- 1530 VATICAN 12/21 2051 male w/EE talk about sending a letter as a youngster. Not noted on 1611 here yet but get a loud hum on 1608.5 when Euro cx are good. (Vernon) 12/24 0359 w/IS fair under WCKY. (Eckman)
- 1539 WEST GERMANY Mainflingen 0421 11/25 instrumental mx. GG talk, fair. (Hakiel)
- 1548 USSR Ukraine or Moldavia 2300 12/30 ID in EE as "World Service of Radio Moscow", theme song IS. Fair. (Hakiel)
- 1557 FRANCE Nice 12/24 0405 strong carrier, TT. Man in lang at 0431, FF mx 0451. (Eckman)
- 1570 MEXICO 1/2 0145 XERF Ciudad Acuna SS talk and ID. (Mestre)
- 1575 ITALY 12/24 0330 very good w/man in presumed II. No positive ID heard. (Eckman)
- 1539 WEST GERMANY Langenberg very good 12/24 0333 w/GG talk, holiday mx. (Eckman)
- 1610 ANGUILLA The Valley 12/17 0443-0500 mx w/very personable anncr, 0449 mentioned 50,000 Watts solid state xmtr and would like letters of lnd and clear reception. 0500 sked given in Atlantic time, 5 AM to 4 PM on 690 and 100.1 MHz, 4 PM to 1 AM on clear channel 1610 w/50,000 Watts. Poor signal, clear audio. (Vernon) 1/2 0150 EE religious broadcast. (Mestre)

Welcome to the new guy on the block, Jorge Mestre. Look forward to seeing more reports from you.

Rich Eckman-Philly, PA H0180A, SB620, ICF7600D, Sanserino loop
George Hakiel-W. Islip, NY R71, loops, LW's
Jorge Mestre-Fairfax, VA Uniden CR2021, Sony AN1
Brian Vernon-Elsa, Yukon FR67000, R7A, 3 Beverages



POST OFFICE BOX 238
STUDIO OFFICES 120 SOUTH PLAZA
BRAWLEY, CALIFORNIA 92227

BANDSCAN

John R. Malicky, 995 Shadycrest Rd., Pittsburgh, PA 15216

8
 Kxy NRC fans, here is the most exciting column in DX News as this week the scanning dial travels to Hamilton, Ontario! None of the Tiger Gate (CFL) and sometimes referred to (at least I have heard) as "Pittsburgh of the north" because of the city's steel making industry. This day and night scan is brought to you by the efforts of Dave Whatmough who's indicated barely audible signals in his day scan and I have noted as "...". No equipment is listed. Dave's van is easily recognizable because one side is covered with stickers as witnessed by myself and other members at Plymouth, some of which are calls in his day scan. Thank you Dave...remember, please list the date, time, frequency, updated calls (if known), city, state-province, equipment, and your LOCALS in CAPS. For your enjoyment...

FREQ	(DW-ON) Day (1000-1400 EST 12/5/85) 82 total	(DW-ON) Night (2100-2300 EST 12/5/85) 132 total
530	CFYZ-Toronto	CFYZ-Toronto
540	CBEF-Windsor, ON	CBEF-Windsor, ON
550	WGR-BUFFALO	WGR-Buffalo
560	CFOS-Owen Sound, ON*	.....
570	CHYM-Kitchener, ON	CHYM-Kitchener, ON
580	.....	.....
590	CKEY-TORONTO	CKEY-Toronto
600	WSOM-Salem, OH	WACO-Baltimore
610	CKTB-ST. CATHARINES, ON	CKTB-St. Catharines, ON/ WIP-Philadelphia*
620	WHEN-Syracuse, NY	WTMJ-Milwaukee*/ WNNR-Beckley, WV
630	CFCO-Chatham, ON	WMAL-Washington, DC/ CFCC-Chatham, ON
640	.....	.....
650	.....	.....
660	.....	.....
670	.....	.....
680	CFTR-TORONTO	CFTR-TORONTO
690	.....	CBF-Montreal
700	.....	MLW-Cincinnati
710	CJRN-NIAGARA FALLS, ON	CJRN-Niagara Falls, ON/ WOR-New York
720	.....	WGN-Chicago
730	.....	CKAC-Montreal
740	CBL-TORONTO	CBL-TORONTO
750	.....	WSB-Atlanta
760	WJR-Detroit	WJR-Detroit
770	.....	WABC-New York
780	.....	WBBM-Chicago
790	CKMW-Brampton, ON	CKMW-Brampton, ON
800	CKLW-Windsor, ON/ CJBQ-Belleville, ON*	CKLW-Windsor, ON/ FJB-Bonaire
810	.....	.....
820	CHAM-HAMILTON	CHAM-HAMILTON
830	.....	.....
840	.....	WHAS-Louisville, KY
850	.....	WJAC-Johnstown, PA/ WRMR-Cleveland
860	CJBC-TORONTO	CJBC-TORONTO
870	.....	WNL-New Orleans
880	.....	WCBS-New York
890	.....	.....
900	CHML-HAMILTON	CHML-HAMILTON
910	.....	.....
920	CKNX-Wingham, ON	WMMN-Fairmont, WV
930	WBEN-Buffalo	WBEN-Buffalo
940	.....	CBM-Montreal
950	CKBB-Barrie, ON	WQBE-Charleston, WV/ WWJ-Detroit
960	CFTJ-Cambridge, ON/ CKWS-Kingston, ON*	WFIR-Roanoke, VA/ CKWS-Kingston, ON
970	WEBR-Buffalo/ (CHUM-1050 spur)	WEBR-Buffalo/ WAVG-Louisville, KY
980	CFPL-London, ON	WTRC-Washington, DC/ WTRY-Troy, NY
990	WNYR-Rochester, NY	WNYR-Rochester, NY/ CSM-Winnipeg
1000	.....	WCFL-Chicago
1010	CFRB-TORONTO	CFRB-Toronto
1020	.....	KDKA-Pittsburgh
1030	.....	WSZ-Boston
1040	.....	WHO-Des Moines, IA
1050	CHUM-TORONTO	CHUM-TORONTO
1060	.....	KYW-Philadelphia
1070	CHOK-Sarnia, ON	CBA-Moncton, NB/ CHOK-Sarnia, ON
1080	WUFO-Buffalo	WTIC-Hartford, CT
1090	CKKW-KITCHENER, ON	CKKW-Kitchener, ON/ WBAL-Baltimore
1100	WWWE-Cleveland	WWWE-Cleveland
1110	CKJD-Sarnia, ON	WBT-Charlotte, NC
1120	.....	KMOX-St. Louis
1130	.....	WCXI-Detroit/ WNEW-New York

FREQ	(DW-ON) Day	82 t	(DW-ON) Night	132 t
1140	.....	.....	.....	.....
1150	CKOC-HAMILTON	.....	CKOC-HAMILTON	.....
1160	.....	.....	.....	.....
1170	.....	.....	WVA-Wheeling, WV	.....
1180	WHAM-Rochester, NY	.....	WEAM-Rochester, NY	.....
1190	CJMR-Mississauga, ON	.....	WCWC-Fort Wayne, IN	.....
1200	.....	.....	WCAI-San Antonio	.....
1210	.....	.....	WCAU-Philadelphia	.....
1220	CHSO-ST. CATHARINES, ON	.....	WGAR-Cleveland/ CHSO-St. Catharines, ON	.....
1230	WECK-Cheektowaga, NY*	.....	.....	.....
1240	CJCS-Stratford, ON	.....	.....	.....
1250	CHWO-OAKVILLE, ON	.....	CHWO-Oakville, ON	.....
1260	WLKK-Erie, PA	.....	WBSG-Cleveland/ WNDR-Syracuse, NY	.....
1270	WHLI-Niagara Falls, NY	.....	WXYT-Detroit	.....
1280	WPXY-Rochester, NY	.....	WADO-New York/ CJMS-Montreal/ WCON-Defiance, OH	.....
1290	CJBA-London, ON	.....	WBNF-Singhanton, NY/ CJBK-London, ON/	.....
1300	WERE-Cleveland/ WXRL-Lancaster, NY	.....	WHIO-Dayton, OH	.....
1310	WNAE-Warren, PA*	.....	WERE-Cleveland/ WFBR-Baltimore/ WXRL-Lancaster, NY	.....
1320	CFGM-RICHMOND HILL, ON	.....	WNIC-Detroit	.....
1330	WRIE-Erie, PA	.....	CFGM-RICHMOND HILL, ON	.....
1340	CADA-Woodstock, ON/ WLVL-Lockport, NY	.....	WRIE-Erie, PA/ WHOT-Youngstown, OH (S&P's station)	.....
1350	CKAR-Oshawa, ON	.....	.....	.....
1360	WVOW-Conneaut, OH	.....	WSLR-Akron, OH/ CKAR-Oshawa, ON	.....
1370	WXXI-Rochester, NY	.....	WIXZ-McKeesport, PA/ WNNK-Cincinnati	.....
1380	CKPO-BRANTFORD, ON	.....	WSFD-Toledo, OH	.....
1390	CHCO-Ajax, ON	.....	CKPO-Brantford, ON	.....
1400	WJET-Erie, PA/ WYSL-Buffalo	.....	WFBL-Syracuse, NY/ WFMJ-Youngstown, OH	.....
1410	WDOE-Dunkirk, NY	.....	.....	.....
1420	CKFT-Peterborough, ON	.....	WDOE-Dunkirk, NY/ WING-Dayton, OH/ WPOP-Hartford	.....
1430	CJOL-TORONTO	.....	WHK-Cleveland	.....
1440	WJL-Niagara Falls, NY/ WRRO-Warren, OH	.....	CJOL-Toronto	.....
1450	WEYZ-Erie, PA/ CHUC-Cobourg, ON	.....	WRRO-Warren, OH	.....
1460	CJOY-Guelph, ON/ WWWG-Rochester, NY*	.....	.....	.....
1470	CHCW-Welland, ON	.....	WOMB-Harrisburg, PA/ CJOY-Guelph, ON	.....
1480	CKAN-Newmarket, ON	.....	CHCW-Welland, ON/ WCHO-Toledo, OH	.....
1490	OFFS-Pt. Elgin, ON*/ WSTA-Batavia, NY*	.....	WHBC-Canton, OH/ WSAR-Fall River, MA/	.....
1500	(CFTR-680 & CHAM-820 spurs)	.....	CKAN-Newmarket, ON	.....
1510	CKOT-Tillsonburg, ON	.....	.....	.....
1520	WKBW-Buffalo	.....	WTOF-Washington, DC	.....
1530	WHYF-North East, PA	.....	WLAD-Nashville, TN/ WMRE-Boston	.....
1540	CHIN-TORONTO	.....	WKBW-Buffalo	.....
1550	CBE-Windsor, ON	.....	WCKY-Cincinnati	.....
1560	(CBL-740 & CHAM-820 spurs)	.....	CHIN-Toronto/ WPTR-Albany, NY	.....
1570	CFOR-Orillia, ON/ WBUZ-Frederonia, NY	.....	CBE-Windsor, ON	.....
1580	(CFTR-680 & CHML-900 spurs)	.....	WQXR-New York	.....
1590	WGGG-Salamanca, NY	.....	CHLO-St. Thomas, ON/ CPCR-Orillia, ON/	.....
1600	CHNR-SIMCOE, ON	.....	CKLM-Montreal	.....
			CBJ-Chicoutimi, PQ	.....
			WAAR-Akron, OH/ WQQW-Waterbury, CT	.....
			CHNR-Simcoe, ON/ WWRL-New York	.....

Pitt(er) Fatter...next week is a biggie from(again) St. Louis, until then, 75e to all!



RADIO BELEN

"LA QUE SE ESCUCHA BIEN"
 SANTIAGO, PROV. DE VERAGUAS REP. DE PANAMA
 AV. CENTRAL ENTRE CALLE 9 Y 7 TEL. 88-2082
 1.150 K.H.Z. 10,000 VATTIOS



RADIO BELEN

"LA QUE SE ESCUCHA BIEN"
 SANTIAGO, PROV. DE VERAGUAS REP. DE PANAMA
 AV. CENTRAL ENTRE CALLE 9 Y 7

ALEXIS ATENCIO GUTIERREZ
 DIRECTOR

Via Kael Jock

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This is the first in a series of newsletters intended to inform interested parties of the latest developments in Cuban broadcast activity, especially as they pertain to interference caused to U.S. medium-wave (AM) broadcasting facilities. Cuban radio interference, a problem since 1964, received national attention in connexion with the controversial Radio Martí program.

The compiler of these newsletters has been monitoring Cuban radio since 1960 and remains the only reliable source of information on current operations on the island. The WORLD RADIO TV HANDBOOK, a Billboard publication, currently sponsors this monitoring program and retains exclusive right to publish the information; the latest list, 97% accurate as of September 1985, appears in the 1986 edition of the WRTH, now available in better bookstores.

RADIO MAMBI DEVASTATED BY CUBAN JAMMING

Radio Mambi, the controversial radio station intended to reach "every last corner of Cuba" with its powerful 50-kW signal and, like its historical namesake, mark "the beginning of the end" of the Castro regime, was, by 26 October 1985, lucky to be listenable even in South Florida, let alone Cuba. WAQI, 710 kHz Miami, known best to its large Cuban-exile listenership as "Aquí - Radio Mambi - La Grande", took over the facilities of what was WGBS on Wednesday 23 October; by that weekend the dream of Miami's Cuban community was shattered.

Mambisa Broadcasting Co., headed by Armando Pérez Roura, whose "Tome nota" commentaries cut sharply at the Cuban régime and its supporters and thus speak eloquently for Florida's embittered Cuban exiles, deliberately sought the WGBS facility and its capacity to blanket Cuba with clear, powerful signals day and night, even exceeding Radio Martí's coverage in that respect, and without the legal restrictions on programming that have rendered the Voice of America's "Cuba service" "innocuous" in some opinions.

Cuba, probably assuming that WAQI was an underground attempt by the Administration to circumvent Radio Martí's Congressionally mandated restrictions on programming, moved swiftly to jam the 710-kHz channel with three of its own powerful stations: CMBC (670 kHz, 50 kW) Havana, CMEC (690 kHz, 50 kW) Santa Clara, and CMHA (630 kHz, 60 kW) Camagüey, all on Cuba's Radio-Rebelde national network. Previously the frequency had seen no Cuban activity since the mid 1960's, now even clear-channel WOR is reportedly difficult listening outside of the New-York-City metropolitan area.

Cuba's intense jamming of "Radio Mambi, La Grande" may be good news to the State Department, since the act is a clear and blatant violation of ITU regulations. State is trying to resolve the Cuban-interference problem through the International Telecommunications Union in Geneva; Cuba is a member thereof.

Thus far the VOA's Radio Martí program has avoided WAQI's fate; nominal low-level jamming has not increased since the program's inauguration last March over a 50-kW transmitter in the Florida Keys that previously carried regular VOA programming in Spanish since the days of the Cuban Missile Crisis of October 1962. Cuba's reluctance to increase jamming has not so much to do with "innocuous" programming as with a clause in the Radio Broadcasting to Cuba Act which restricts operations to 1180 kHz in Marathon UNLESS Cuban interference to the station increases by 25%. In other words, any attempt to increase jamming to Radio Martí will only backfire on Cuba and free the VOA to add more transmitters and frequencies to the effort; Cuba would appear not to be looking for trouble at this time.

"TOURIST" STATION NO HOLIDAY FOR K.S.L.

Tourists and visitors to Cuba now have their own radio station to listen to. American radio listeners trying to tune in to Salt Lake City's KSL (1160 kHz) may also learn about the island's many fabulous vacation sites. Programming over "Tour Radio Taíno" (ta-EE-no) in Spanish and English began last fall over a 75-kW transmitter located some 26 miles SSE of Havana. Fortunately for

now, the station signs off nightly at 5 PM, too early to be the problem for KSL that it once was.

This station is not new; it has appeared in various disguises since December 1981, including the "Voice of Cuba" in English as well as carrying all three major Cuban radio networks at different times since. Broadcasting from a 600-foot radio tower, it puts out a nighttime skywave signal much stronger than its true power would suggest.

CUBA DOES "FRIENDLY" MEXICO A FAVOR AT U.S. EXPENSE

México's most powerful AM station, 250-kW XEW operating on 900 kHz, had a Cuban-interference problem of its own: station CMKB, a Radio-Progreso affiliate serving eastern Cuba from a 50-kW transmitter in Cacocum, near Holguín. XEW complained, and Cuba obliged by changing frequencies to 880 kHz. Now it's a problem for WCBS in New York. It's nice doing favors for your friends!

BROADCASTING TO CUBA STARTED WITH KENNEDY

Radio Martí has been presented to the American public as a "first". It was far from it!

Radio Américas, a CIA operation, broadcast to Cuba from 1961 to 1968 on the AM frequency of 1160 kHz (the same as KSL's) with a power of 50-kW from Swan Island, located in the Caribbean south of Cuba. There was also a "Comité Pro Libertad de Cuba" which ran "Radio Cuba Libre", a short program heard by Cubans over such U.S. stations as WGBS Miami, WWL New Orleans, and WKWP Key West. A second VOA outlet paralleled the Marathon transmitter from 1962 until 1965; it was located on Sugarloaf Key (near Key West) and broadcast over 1040 kHz with 50 kW. And, at the height of the Cuban Missile Crisis of 1962, some dozen U.S. AM commercial stations (possibly yours), beamed VOA programming to Cuba, and one even voluntarily carried programs in Russian! Today we are down to three: WAQI and WQBA, both in Miami, and the VOA's Radio Martí in Marathon.

Were it not for its overblown publicity, Radio Martí would have been ranked as the most expensive and least effective of many previous attempts to broadcast to Cuba over the AM band.

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ZIGGY



1206 S. Main
Lisbon, NO 58054
683-5287



REDING MOUNTAIN
BROADCASTING LTD.
P.O. Box 890
Brandon, Manitoba
R7A 6N6

AM 1460 KHT
1604 SOUTH 21ST STREET
COLORADO SPRINGS, CO





from

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State of Connecticut Department of Consumer Protection

MARY M. HESLIN, Commissioner
 State Office Building - Room 105
 165 Capitol Avenue
 Hartford, Conn. 06106

HARTFORD
 FOR IMMEDIATE RELEASE
 SUBJECT: AM STEREO ADVISORY

December 12, 1985

Consumer Protection Commissioner Mary M. Heslin is issuing an advisory to consumers planning to purchase an AM stereo radio or receiver. Unlike FM stereo, AM stereo is broadcast over several different types of transmission systems. Some radios and receivers only receive one type of transmission. Therefore, a consumer may purchase an AM stereo radio that will not receive in stereo the consumer's favorite radio stations.

The Department of Consumer Protection has a list of the types of transmission systems used by individual stations. This information may be obtained by writing to The Department of Consumer Protection, 165 Capitol Avenue, Hartford, Connecticut 06106 attention: Susan K. Nichols, Executive Assistant.

The Department of Consumer Protection is proposing regulations which would require the sellers of AM stereo receivers to disclose the receiving capabilities of such units. Before purchasing an AM stereo receiver, consumers should determine what system or systems of transmission the set is capable of receiving.

With this information, consumers can purchase radios or receivers which are compatible with the systems of transmission used by nearby radio stations.

CURRY COUNTY BROADCASTING, INC.

K W K A AM RADIO 68

K T Q M FM RADIO 100

P. O. BOX 080 CLOVIS, NEW MEXICO 88102-0800

WLIX 540AM

Contemporary Christian Radio
 138 West Main Street
 Bay Shore, New York 11706

A Service of Living Communications, Inc.

ORIGINAL ANTENNA WILL BE CHANGED

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San Jose, California is the site of the world's largest flea market. But, to DXers, the most interesting thing is not in the area where bargains are offered, it's in the parking lot across the street. At the far end of this giant parking lot is the directional antenna of Radio Station KNTA-AM 1430, a Spanish language station licensed to nearby Santa Clara.

The directional antenna is almost totally unique among broadcasting stations. It consists of one tower! A one-tower directional antenna? How? Read on.

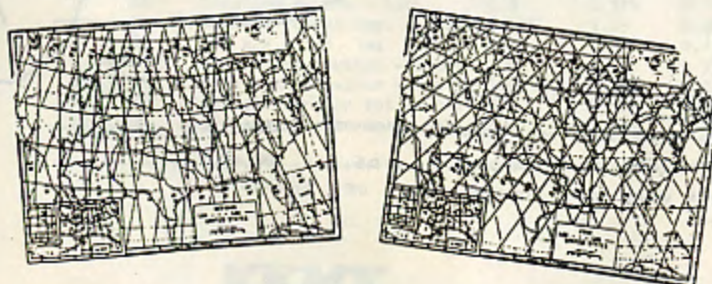
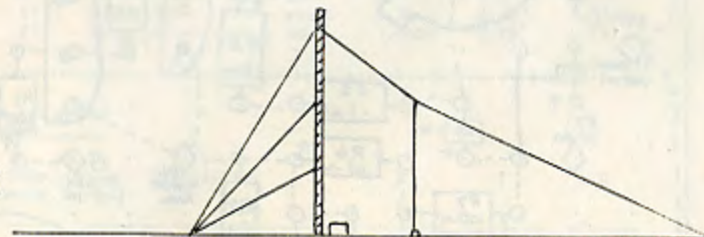
Guys from this tower are of the conventional type in two directions. But, in the third direction, the guy wire is much thicker, and the anchor is almost three times as far away from the tower. And, hanging down from this extended guy wire at a distance of about 100 feet is a vertical wire that is connected to the station's phasing unit and functions as the second element of the directional antenna! One tower, plus one vertical wire, adds up to a two "tower" directional that creates the desired pattern. This is a fascinating sight. A casual observer wouldn't notice the "fat" guy wire leading off in one direction, or the fact that it is much longer, and has a bend in the middle, where the downwire is attached.

Interested? Better go soon and look at it, because KNTA just applied to the FCC for a change in facilities, and undoubtedly the unique system will be changed.

I discussed this antenna with Oggie Presthold, of A. D. Ping & Associates, a well-known consulting engineer firm in Washington. The only other similar system was used many years ago by WTAM, 1100 in Cleveland (the present WVUE) which wanted to suppress its signal out over Lake Erie, and put up a parasitic wire on the same basis. And, of course, the Mexican border stations in the 30s and 40s used curtains of vertical wires to create a skywave directional pattern north. But, this KNTA system is believed to be the only one of its type in use now.

Perhaps some club member can go out to the Flea Market and snap a photo of this unusual setup before it's changed and it can be run in the magazine.

Cary Simpson
 601 Fifth Street
 Tyrone, PA 16686



SUNRISE/SUNSET MAPS. A set of 12 maps (8 1/2" x 11") with instruction sheet showing the monthly average sunrise/sunset times for the United States. An invaluable aid to the sunrise or sunset DXer. \$2 to all.

\$1.00

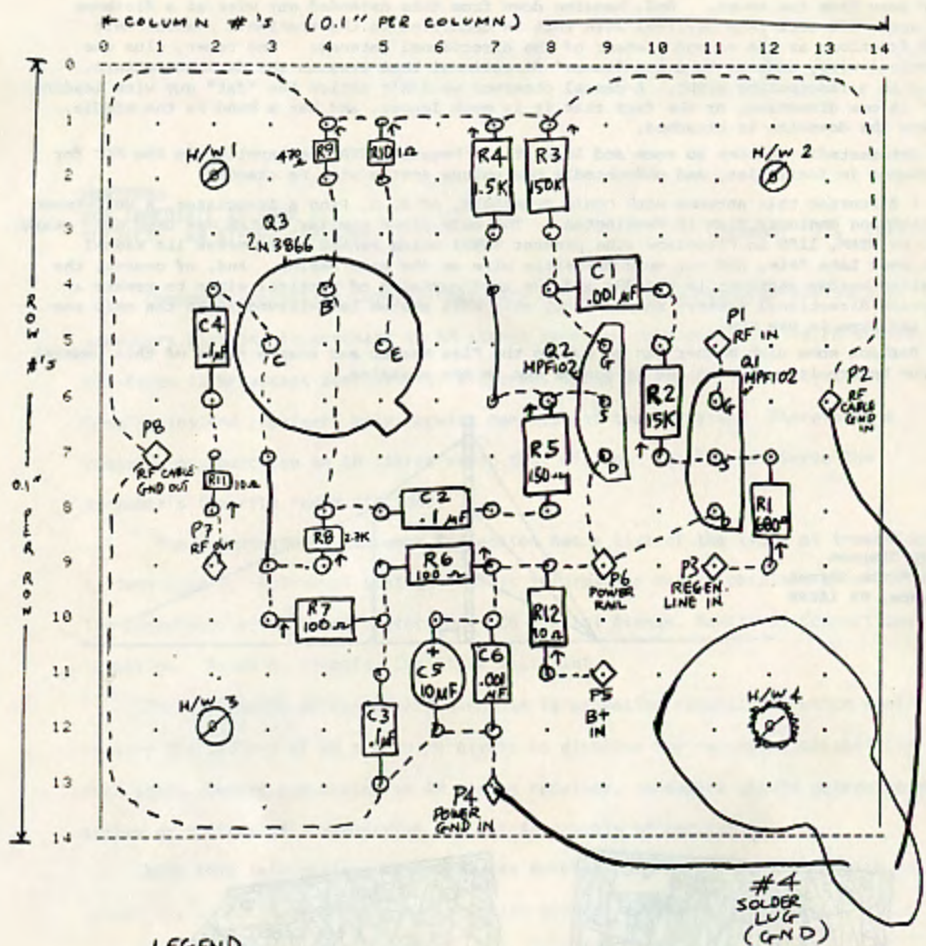
Figure 3: RFE-A Regenerative Front-End Card subassembly "roadmap"
 =====

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RFE - A REGENERATIVE FRONT-END CARD

COMPONENT-SIDE VIEW

WAI/ION DX LABS / REV = 10 DEC 1985



LEGEND

- ↑ = LONG-LEAD SIDE OF VERTICALLY-MOUNTED AXIAL-LEAD COMPONENT
- = BUSS WIRE ON COMPONENT SIDE OF BOARD
- - - = BUSS WIRE ON SOLDER SIDE OF BOARD

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Table 3: Hole List for MWT-1 Medium-Wave Tuner
 =====

BOX USED = Mouser 537-TF-779 (5" x 4" x 3")

X = horizontal distance, in inches, from the vertical centreline (VCL) on the side observed. Negative values of X are left of VCL; positive values of : are right of VCL.

Y = vertical distance, in inches, from the bottom horizontal edge of the side observed.

D = hole diameter in inches.

LEFT SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	J2	car ant. in - H/W 1	-1.5	1.269	0.14
2	J2	car ant. in - body	-1.5	0.875	0.5
3	J2	car ant. in - H/W 2	-1.5	0.481	0.14
4	J4	GND in -black banana jack	-0.75	1.25	0.3125
5	J3	Wire Ant. In-red ban. jack	-0.75	0.5	0.3125
6	G1	GND H/W - int. lug	0.0	1.125	0.113
7	J1	RF source in - BNC jack	0.0	0.5	0.375
8	R1	Input Atten. Pot - shaft	1.25	0.75	0.3125
9	R1	Input Atten. Pot - tab	1.5625	0.75	0.14

TOP SIDE

Hole #	Comp. Desig.	Description	X	Y	D
1	C1	Main Tuning Cap. - H/W 1	-1.875	3.213	0.14
2	C1	Main Tuning Cap. - shaft	-1.625	2.75	0.5
3	C1	Main Tuning Cap. - H/W 2	-1.875	2.287	0.14
4	R3	Reg.Threshold/Level-shaft	-1.875	0.625	0.3125
5	R3	Reg.Threshold/Level- tab	-1.5625	0.625	0.14
6	G2	GND H/W - int. lug	-1.25	1.125	0.113
7	S3	Length switch - tab	-0.25	2.0	0.113
8	S3	Length switch - shaft	0.0	2.0	0.25
9	S2	Function switch -shaft	0.0	0.875	0.375
10	S2	Function switch - tab	0.0	0.375	0.14
11	C2	Vernier Tuning Cap. - shaft	0.125	3.25	0.28
12	G3	GND H/W - int. lug	1.5	3.0	0.113
13	S1	Freq. Range switch - shaft	1.0	2.125	0.375
14	S1	Freq. Range switch - tab	1.5	2.125	0.14
15	R2	Q/Regen.Vernier Pot - shaft	1.5	0.625	0.3125
16	R2	Q/Regen.Vernier Pot - tab	2.0	0.625	0.14

KKMX

AM 1000 FM 96

P.O. Box 00 - Hayden, CO 81639
 P.O. Box 774743 - Steamboat Springs, CO 80477

Table 3: Hole List for MWT-1 Medium-Wave Tuner (continued)

R I G H T S I D E					
Hole #	Comp. Desig.	Description	X	Y	D
1	J7	battery holder - H/W 1	-1.625	2.625	0.113
2	J7	battery holder - H/W 2	-1.625	1.75	0.113
3	J6	RF out to car RX - H/W 1	-1.5	1.269	0.14
4	J6	RF out to car RX - body	-1.5	0.875	0.5
5	J6	RF out to car RX - H/W 2	-1.5	0.481	0.14
6	C8	B+ input feedthrough cap.	-0.6875	1.0	0.188
7	G4	GND H/W - int. & ext. lugs	0.0	1.125	0.113
8	J5	RF out - BNC jack	0.0	0.5	0.375
9	M1	Regen.Front End Card-H/W 3	0.5625	1.5	0.113
10	M1	Regen.Front End Card-H/W 1	0.5625	0.5	0.113
11	M1	Regen.Front End Card-H/W 4	1.5625	1.5	0.113
12	M1	Regen.Front End Card-H/W 2	1.5625	0.5	0.113

Parts Lists for MWT-1 Tuner

Table 4 = "upper level" of electrical & major mechanical components

Table 5 = M1 (RFE-A) Regenerative Front-End Card subassembly components

Table 6 = small hardware

Vendor Abbreviations

DK = Dig1-Key - P. O. Box 677 - Thief River Falls, MN 56701
 MOU = Mouser Electronics- 11433 Woodside Ave.- Santee, CA 92071
 NEW = Newark Electronics- (many locations)
 RS = Radio Shack - (many locations)

Table 4: "upper level" of electrical & major mechanical components

Component Designation	Description	Vendor	Stock #
BOX			
---	chassis box (5" x 4" x 3")	MOU	537-TF-779

SUBASSEMBLY

M1 RFE-A regenerative front-end card [see Table 5]

CONTROLS

C1	10-365 pF variable capacitor	MOU	524-A1-227
C2	2-25 pF variable capacitor	MOU	530-189-0569-1
R1	500 ohm linear pot w/ switch	MOU	31CT205
R2	250 K linear pot	MOU	31VA503
R3	10 K linear pot	MOU	31CR401
S1	2-pole 6-position rotary switch	MOU	10W026
S2	8-pole 3-position rotary switch	MOU	10WR083
S3	SPDT on/off/on toggle switch	RS	275-325

Table 4: "upper level" of electrical & major mechanical components

Component Designation	Description	Vendor	Stock #
JACKS / CONNECTORS			
J1	BNC jack UG-1094	RS	278-105
J2	Motorola jack	MOU	16PJ107
J3	banana jack (red)	RS	274-662
J4	banana jack (black)	RS	274-662
J5	BNC jack UG-1094	RS	278-105
J6	Motorola jack	MOU	16PJ107
J7	battery holder (Keystone 1290)	MOU	534-1290

ELECTRICAL COMPONENTS

B1	9 volt battery	RS	23-553
C3	1000 pF B+ feedthrough cap.	NEW	19F2861
C4	.1 uF monolithic cap.	DK	P4525
C5	18 pF disc cap.	MOU	21CB018
C6	47 pF disc cap.	RS	272-121
C7	.01 uF disc cap.	RS	272-131
C8	39 pF disc cap.	MOU	21CB039
C9	.1 uF monolithic cap.	DK	P4525
L1	4700 uH inductor	MOU	43LH247
L2	2200 uH "	MOU	ME434-1120-223K
L3	390 uH "	MOU	43LR394
L4	180 uH "	MOU	43LR184
L5	82 uH "	MOU	43LS825
L6	39 uH "	MOU	43LS395
L7	1000 uH "	MOU	43LS103
L8	470 uH "	MOU	43LS474
L9	82 uH "	MOU	43LS825
L10	39 uH "	MOU	43LS395
L11	18 uH "	MOU	43LS185
L12	8.2 uH "	MOU	43LQ826
R4	5.1 ohm resistor	DK	5.1Q
R5	4.7 K resistor	RS	271-1330

KNOBS

-	knob for C1	RS	274-415 (pk 2)
-	knob for C2	MOU	45KN013
-	knob for R1	RS	274-415 (pk 2)
-	knob for R2	MOU	45KN013
-	knob for R3	MOU	45KN013
-	knob for S1	MOU	45KN013
-	knob for S2	MOU	45KN013

Table 5: M1 (RFE-A) Regenerative Front-End Card subassembly components

Designation(s)	Description	Vendor	Stock #	Qty.
BD	perfboard (1.4" x 1.4")	RS	276-1396(cut)	1
C1,C6	.001 uF disc cap.	RS	272-126	2
C2,C3,C4	.1 uF monolithic cap.	DK	P4525	3
C5	10 uF / 25 V tantalum cap.	DK	P2089	1
H1,H2,H3,H4	4-40 x .25 screw	DK	H142	4
H1,H2,H3,H4	4-40 x .5 spacer	MOU	565-2332	4
H1,H2,H3	#4 split lockwasher	MOU	572-00649	3
H4	#4 solder lug	MOU	565-1416-4	1
P1,P2,P3,P4, P5,P6,P7,P8	flea-clip for .042" hole	MOU	574-T42-1/100	8
Q1,Q2	MPF102 N-channel JFET	RS	276-2062	2
Q3	2N3866 NPN	MOU	511-2N3866	1

Table 5: M1 (RFE-A) Regenerative Front-End Card subassembly components (continued)

Table with 5 columns: Designation(s), Description, Vendor, Stock #, Qty. Lists components R1 through W with their respective values and quantities.

Table 6: small hardware

Note: Mounting hardware is supplied with the following components: C2, C3, J1, J3, J4, J5, R1, R2, R3, S1, S2, S3, knobs, & chassis box.

Hardware is required by the following component designators: C1, G1, G2, G3, G4, J2, J6, J7, and M1. All required hardware is listed below:

Table with 4 columns: Description, Vendor, Stock #, Qty. Lists hardware items like screws, lockwashers, solder lugs, and nuts.

Table 7: Wiring / Component Connections for MWT-1

Notes: I = insulated wire, approx. #22 AWG; B = bare solid (buss) wire; TP = twisted pair of insulated wires

Wires:

OUTSIDE BOX

Table with 4 columns: Wire #, From, To, Description. Shows connections for wires 1 and 2 between J7 terminal pins and external pins/lugs.

INSIDE BOX

Table with 4 columns: Wire #, From, To, Description. Shows internal connections for wires 3 through 12 to various components like J3, J2, G1, S2A, G2, R1, R4, C1, and S2A.

Table 7: Wiring / Component Connections for MWT-1 (continued)

INSIDE BOX

Table with 4 columns: Wire #, From, To, Description. Shows detailed wiring connections for wires 13 through 34 to various stator and arm positions.

Components:

INSIDE BOX

Table with 3 columns: Component, Side A to, Side B to. Lists components C4 through R5 and their connections to stator and arm positions.

Table 8: Control Orientation Conventions

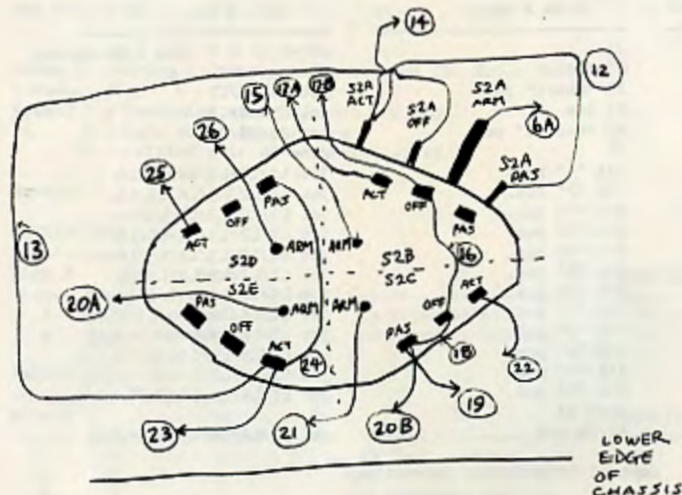
Ensure that components are mounted and wired in accordance with this table; align knob pointers to clock positions indicated.

Table with 3 columns: Side, Control, Orientation Conventions. Shows control settings for left and top sides, including CCW and C values for different plate positions.

Table 8: Control Orientation Conventions (continued)

Side	Control	Orientation Conventions
top	R3	arm at GND = fully CW = 4:00 arm at jct S1A/S1B = fully CCW = 8:00
top	C2	maximum C (plates fully meshed) at 6:00 minimum C (plates fully open) at 12:00
top	S3	"Short" = left; "Long" = middle; "Normal" = right
top	S2	passive = CCW = 11:00; off/bypass = centre = 12:00; active = CW = 1:00
top	S1	[see Table 2]
top	R2	maximum Q = CCW = 7:00; minimum Q = CW = 5:00

Figure 4: S2 Function Switch Orientation
Interior view (view from back of switch)
S2A section is on wafer closest to chassis,
S2B/S2C/S2D/S2E sections are on wafer closest
to observer. Wire numbers correspond to Table 7.



. /x end +/

The opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the Editors, Publishers, or the National Radio Club, Inc., or its subsidiaries.
Times are local per Muse.

Greetings again from 1A, where the weather in January has been disgustingly warm and beautiful. We hear from one lady and one couple for this week's theme ... but if we hear from even just one unpublished NRC member or one from whom we haven't heard for a long time, I consider the theme idea a success. I could use a few more ideas, too! #19 (Jan. 31) will be devoted to first-time Musers ... #20 (Feb. 7) to past or present employees of broadcast media; #22 (Feb. 21) will be Story Time, and #23 (Feb. 28) will be turned over to teenage NRC members. And now, on with it ...

Linda Brodsky - 55 Nassau Ave. - Malverne, NY 11565

I must admit that it took a special Musings theme to get me to pick up my pen and write once again, but having a new receiver (Kerwood R-2000) helped, too. (That's the idea ... welcome back -pls) A brief re-intro: I'm 39, married to a tolerant non-DX'er, have a son (13) and daughter (10), been DX'ing since 1960 and am a social worker/marketing representative of a large health care corporation. The last few years were the least active for me DX-wise due to time shortage and seemingly poor conditions. I purchased the R-2000 in August and am satisfied with it though I wish it had direct entry tuning (a feature I neglected to give sufficient importance to when I was looking for a new rx). For BCB DX, it's hooked to an SM-2. Another "inconvenience" is not being able to tune the antenna automatically when running through the memory. It sort of makes the memory feature less effective. To my surprise, there is no antenna trimmer on the set, either, so an external tuner is needed for the best results on my longwire. I wonder how or why such a useful and inexpensive feature was omitted from a fairly expensive receiver? Other equipment includes a modified TRF, a Bearcat 210 scanner and a tape recorder which I use rather than send for QSL's. I do have a small but interesting QSL collection from the '60's. My best BCB catch ever was China on 1525 kHz in March 1976. I have this one on tape along with Vatican 1529 kHz, Spain 584 kHz, and Portugal 1034 kHz from the same time period. Other TA's in '76 and '77 were Spain 683 kHz, England 1088 and 1214 kHz, Switzerland 1562 kHz, and Germany 1586 kHz. Band conditions in the '80's are decidedly different with many more domestics and, this season, with extremely auroral conditions. I miss TA's but still look for them every time I turn the set on. Recent catches: TICAL-529 kHz 1-2-86 at 2050; R. Grenada-535 kHz nightly during Dec. 85; XEQ-940 kHz on 12-3; ZDK-110 on 12-19 at 2051; VOA Antigua-1580; Anguilla 1610 kHz nightly; a Colombian Caracol station on 1100 at 2100 1-2-86; WSJV, a carrier current college station on 685 kHz from St. John's University, Jamaica, NY on 12-4. This one is about 5 miles from my QTH but is heard rarely; Cubans, all over on every receiver, no matter how poor, in the car, on the clock radio, etc. I would appreciate hearing from other R-2000 users about antenna arrangements for LW and BCB. So far, LW is virtually non-existent on longwire and very poor on SM-2. Also, any ideas for ways to overcome the matching problem when using memory would be welcomed. I hope 1986 is a great DX year for everyone.

Bill Hardy - 2301 Pacific Ave. - Aberdeen, WA 98520

I've spent the last 1 1/2 years as half of a "DX'ing couple", but prior to 1973 I mostly DX'ed alone. I belonged to a DX club, and I had met other DX'ers from Seattle, Portland, and California, but aside from fall 1971 when I worked in Astoria and could compare notes with a DX'er there, I was at least 50 miles from the nearest DX'er. My life changed in 1972 when girl DX'er Nancy Gantzer of Fredonia, NY wrote to me and asked how to hear Washington State. (Ironically, I didn't hear my first New York station, WJAM-1180, until two months after she wrote!) For a year we were pen pals, and then I offered her a typing job at the radio station where I worked. She moved west in May 1973, and one year later we were married. I know of several DX'ers whose wives are not sympathetic towards the DX hobby, and a couple of them are almost antagonistic - the "you-can-do-that-but-not-when-I'm-around" type. So I'm actually quite lucky, although I wonder sometimes, hi, when I come home at 5:45 pm in November and Nancy grins, "I got another new station today." I'll admit that these past few weeks, she's DX'ed more than I have, what with Christmas and all. In fact, I had no new catches between Dec. 3 and Jan. 5. A strange catch on Nov. 29 was the result of a phone call from the chief engineer at KBOI-670 Boise, wanting to identify the signal on 675 that was interfering with KBOI in Boise itself. It turned out to be XETRA Tijuana, normally on 690! Evidently a big storm had caused XETRA to go way off frequency, caught at 10:07 pm Pacific time with ads, a full legal ID in Spanish, and more "69 Extra Gold" oldies. I haven't decided whether or not to count it as a separate logging, but it was between KBOI and KNER-680 so it was obviously off frequency. With XETRA gone and CBU signing off at 1:05 am, I caught a very rare catch 11-30 1:37 am with a Herman's Hermits oldie and a quick "WFLX 690" ID from New Orleans! Only other station heard on 690 in XETRA's absence was unneeded Hawaiian KKUA; Hawaiians have been poor here in the fall of 1985. Local KGHO-1490 was off several days in early December while waiting for a transmitter part, allowing one new logging in KIDI-1480 Gooding, ID, 12-3 5:15 am with country music, local ad, CNN business news. This new station would be a regular without the local on 1490. Also relogged numerous old friends on 1490 not heard since KGHO went NSP last April. I wonder if KGHO is beaming all their signal into my radio?

hi. Even though KGHO is NSP with the StarDust format and Satellite News Network, I haven't seen anybody else in the West report it - a far cry for the days when KGHO-1560 was heard throughout the West regularly and even made it to Europe! First new logging of 1986 was KPUA-670 Hilo, HI, 1-5 at 9:49 pm ending a Rick Nelson song, nice ID by lady DJ, then more oldies, fair to poor in KBOI null. Conditions to Hawaii have been so poor this season, until recently, that it took all these months to positively ID KPUA. 73 and good DX.

Nancy Hardy - 2301 Pacific Ave. - Aberdeen, WA 98520

The theme for this week's Musing section is "ladies and married couples who both DX". There are not too many who fall into both groups! I know that back in Jan. 1970 when I joined NRC many of the members said to themselves, "Oh, another girl has joined. She'll last a couple of months, then we'll never hear from her again." Well, in the 16 years I've been in the club I've gained many DX friends, hundreds of new stations, and even a DX husband. There are advantages to being married to a DX'er. First is the competition, hi. Since 1973 when I moved to Aberdeen, I've been trying to hear as many stations as Bill. He's been DX'ing from here 13 years longer than I, so it hasn't been an easy job to catch up. Right now I'm about 40 behind. Second advantage to a DX spouse is that when one of us has a lack of interest in the hobby, the other one usually continues to DX and gets a good catch. Suddenly the uninterested one gets interested again. Another advantage is that with two DX'ers in the same house, one is more likely to hear something new. For example, I like to DX at sunset, and Bill likes MM. When I hear new SSS catches I tell Bill about them so on his days off from work he can get them. On MM's I'm usually fast asleep and he wakes me up if something good is coming in. A little over a month ago he was DX'ing one morning and heard WTIX-690 IA. To show you how "functional" I am at that hour (3 or 4 am), I went running into the den thinking he'd gotten CT (WTIC). One last advantage to a DX'ing husband is the sharing and understanding. I'm sure that if I were married to anyone else, he wouldn't be able to understand the excitement I felt last month when I heard KROE-930 WY. I'd been trying for KROE for 13 years. In closing, I'd like to say that I wish all of you were as lucky as I am, to have a DX'ing spouse, too! 73 and 88.

Karl V. Jeter - 2115 Scarbrough Rd. - Stone Mountain, GA 30088

Here's hoping that everyone had a safe and happy holiday season, and so here's my first MUSE of 1986! (Big deal, I know, hi!) I finished 1985 with a bang, DX-wise, as I was able to have 4 out of 5 Monday mornings off! Some interesting stuff has been heard, which I will get to shortly. I recently strung up about 1,000 feet to the south, and after grounding and terminating, I have a pretty decent little beverage to add to the other two. I figure I had better enjoy this luxury while I can, because the land behind us, which fronts on a major highway in a fast-developing part of town, won't be available to me forever. In fact, this land (my antenna farm, hi) is now for sale, so I'd better keep busy. Anyway, I am getting great signals on some of the Caribbean stuff, Central and South Americans, and have logged a handful of Florida GY'ers. Now on to some recent DX: 12-16: made a try for the KFJM-1370 test, and from 1:09-1:35 am, I heard various tones, and around 1:23 am, I heard a male chorus singing "America" which didn't seem to fit the formats of the other stations on. This was a tentative reception, as no definite ID was heard. Sadly, my tentative report and tape was returned by KFJM as "not verified" ... but I would be interested to hear from someone who definitely had the test to see if what I had was most likely them. Oh, well! That same AM, WZAZ-1400 Jacksonville heard with urban-contemp 2:45-3:01 am. Unn. WIS-560 Columbia, SC noted ET'ing 3:30 am with tones and ID at 3:38 am. Up to 12-20: nrd a new Georgian, WBIT-1470 s/on at 6:07 am with quickie announcement. 12-21: WRBD-1470 Pompano Beach, FL logged at 6:24 am with urban contemp and DJ Larry Alexander. 12-22: R. Paradise-825 blasting in at 5:40 pm with canned religious stuff, but still haven't gotten them good at ID time (Murphy at work!) 12-22: WMPJ-1450 Daytona Beach in nicely at 1:03 am s/off, mentioning "Sonshine Radio". This was followed by WSPB-1450 Sarasota, FL in at 1:09 am with AdCon and contest promo. Alas, WSB-750 was OFF this MM, but none of those new clears were hrd ... only a log taken on R. Sandino at 1:18 am, no complaints). More surprise this MM ... WLS OFF too! Only an unn KBYE ET'ing around 2:00 or so, but I was pleasantly surprised when R. Nacional in Panama was logged in around 2:00-2:27 am. That's my second Panamanian reception in the past few months. Over on 1350, KENT-Des Moines logged 2:30-2:44 am with Christmas mx, a sports promo, and promo for their lawn and garden show. Unn WROZ-1400 briefly with country music at 3:01 am. Also hrd unn WJPC-950 Chicago, IL at 3:10 am with urban/contemp-type stuff. Quite a few veries have filtered in this month, including two IA veries in a week: YSS-655 El Salvador and HJKH-770 Colombia, both with v/l; the former promises to send a pennant when new ones are available. Also v/l's from WCE-1200, WFSH-1340, KAAV-870, WAUD-1230, WJUN-1180, and a v/r from WBF-1130. Thaztit for now ... 73's.

Robert Rush - 50 Pequot Rd. - Southampton, MA 01073

The last days of December were productive ones for SRS and SSS. Here is a list of the "goodies" received in the shack: WNRG-980, WBTE-990, WCCS-1160, WSPD-1370, WCKS-1430, WSGO-1440, CKAN-1480, and WCSS-1490. If these loggings were not enough, 1340 had a couple of surprises in store for me. Ohio made a triumphant appearance at local sunrise!

WSTV and WACO were logged on separate days between 6:25 am and 6:45 am. When conditions are this good on the graveyards, one had better do some dial twisting! It is loggings like this that bring me back to the radio. Hopefully, similar listening conditions will be possible in the weeks ahead. With a little luck and patience, the Superadio II should bring more goodies to Southampton. 73's.

Ernest Cooper - 5 Anthony Street - Provincetown, MA 02657 (617) 487-9337

Who or what is SW "Radio Earth" that it gets front page mention every issue? Only verie is on a f/up to WIRK-1290 for former call WPKC, and it is rather vague. Reports went out to WICE-550, WAVI-1380, WOKJ-1370, WXAX-1170, WJAX-1270, and WJRO-1590. To Laura McCusker: WQQW-1590 is not an all-nighter, and hasn't been for a couple of years. They s/off faithfully at 1 am weekdays and midnight Sunday nights, bless them! And, yes indeed, there are Piggly-Wiggly stores in the South; I saw them in Orlando! Those frequency maps seem like a vast waste of space to me; the same info is in the NRC Log, with much more detail. A typo; the WOCB-1240 FM is WJFR, after the late President who was a Cape Codder (not WFKJ). (My Muse in the 12-9-85 DX News). To Dave Hascall: "The Voice in the Valley" on 830 is WRND, Cortland, OH. DX here: Wed. 12-4: WJRO-1590 tentatively the one with a powerful preacher at 1:49 am. Is this perchance the one with SS after 2 am here/ Methinks so. Thur. 12-5: Unn WDLA-1270 on PoP at 1:02+. Sort of two-toned TT on 1320 at 1:46 am, and another TT'er on 860 at 2:27+. Fri. 12-6: R. Popular-950 filtering thru WPM/WIBX at 1:01 am; this is in Santo Domingo. MM 12-9: WCFE-1000 screaming preacher condemning virtually everybody: Chicago politicians, lawyers, gays, teachers, preachers, judges, doctors, lotteries, bingo, parents, children - but he didn't mention DX'ers! This is religion? Judge not, let ye be judged, says the Good Book. Tues. 12-10: Unn WJSO-1590 TT'ing at 1:31. Unn WINT was in well atop 1270; equally unn WMR likewise on 1250, 2 am-ish. Unn WBLD was pushing thru the SS barrage on 640 at 2:29, with Christmas carols. Thur. 12-12: CHUR-840 was in, in WBS's null rather weakly and not enough for a report, and not heard since! SM 12-15: XERF topped the Canadians today at 1:15 am. On 1200 it was (in this order): WOLJ, YVOZ, WROX. Unn FPC CJTR-1140 was strong with WRA off at 1:34 am. To John Malicky, nice going on CKAN-1480; they used to be heard here, but no more - I sent 'em to Pittsburgh! Who has the loud OC atop WNL-870 these days? Tue. 12-17, SSS, WROX-1210 was dominant here at 4:24 pm, not heard in years. Then a log on WZAP-690 4:47-5:02 pm, QOS programming. Wed. 12-18: I listened to local WKPE-1170 leave the air; about two minutes before the end the DJ says the AM has to leave now; then the music up and suddenly off at 4:17; no city, no call, and illegal! Thur. 12-19: Unn WELV-1370 strong at 4:37 pm; unn WKZQ-1520 also. So long for now from your old left-handed bandwaster. Forward - March!

Flattop Antennas

by Floyd Hall

Crestline CA ... DID YOU KNOW THAT ... ?

The radio broadcasting business was nearly 10 years old before stations began to use vertical antennas! Previously, all broadcast stations had four-wire, flattop antennas strung between two towers, and a great many of them on top of a high building.

Old Radio Timer

In the early 30s in Southern California, these stations had transmitters and flattop antennas on the roof of prominent buildings: KMTR, KFVB, KECA, KGER, KPON, KFSD and several others. (If you recognize all of these call letters, you have been around a long time!)

KNX put up the first vertical radiator I ever saw, when they were located out in the wilds of the San Fernando Valley. They had been operating with a flattop antenna strung between 200' towers, driven by a 50 kW transmitter built by Kenny Ormiston and his crew, through a 600 ohm, open-wire transmission line. (No manufacturer had marketed a 50 kW). This was about 1933, if my memory serves me right.

They had decided to put up a 400' guyed tower, and they had a lot of fun in the process! When the contractor got about 100 feet of tower up, everything got hot. The steel workers up on the tower were getting burned every time they reached out for a piece of steel, so they quit.

Kenny assured them he could eliminate the problem by grounding the base of the tower, and talked them into going back up. This worked all-right for a couple of days, then the tower got hot again. Kenny didn't know what else to do, so he disconnected the 50 kW amplifier and fed the old flattop antenna with the 5 kW driver.

This worked pretty well; the workers were not getting burned, and the tower was going up nicely.

One afternoon at about 1500 hours, Kenny came out to the transmitter and decided to turn on the filaments to the PA. When he did, the water pump and cooling blower just at the back of the building started up.

Then, as Kenny strolled outside, he found the tower contractor jumping up and down, screaming at the tower crew, who were coming down the tower like a couple of monkeys. When they got down within shouting distance, they yell-

ed at the contractor, "That blankety-blank so-and-so has turned it on again!"

No way would they go back to work. The sound of that cooling blower meant "hot stuff" to them, and they walked off the job. They had to get steeple jacks down from San Francisco to finish the tower! This may seem a little strange in the light of the high towers they are putting up these days, but then a 400' guyed steel tower was quite a project.

