Inside ...  
2. . AM Switch  
3. . DXDX-E  
4. . DXDX-W  
8. . DXDX  
10. . TA's  
15. . Verle Signers  
16. . R900A mods  
17. . Target DX  
18. . WHOT  
19. . Musing  

CPC Tests Directory  
1:22- WILD-1090 Boston, MA  
1:28- WAGL-1560 Lancaster, SC  
2:4- WRSW-1480 Warsaw, IN  
2:5- WCIL-1020 Carbondale, IL  
2:18- WLUS-950 Gainesville, FL  
2:19- WIVV-1370 Vieuxes, PR  

WILD-1090 Boston, MA will conduct a DX test on January 22, 1990 from 2:00 am ELT to 2:30 am ELT. The test will be conducted using 5000 watts non-directional. Programming will consist of 1 kHz test tones, Morse Code ID's and vocal ID's by both male and female announcers. Correct reports will be verified by Mr. Michael Klein NV1L, P.O. BOX 2181, Lynn, MA 01903 (or report via NV1L QSL Bureau). Arranged by Michael Klein with assistance from Peter Grewe and the Colorado CPC Machine for the NRC.  

WAGL-1560 P.O. BOX 28, Lancaster, SC 29720 will conduct a DX test on Sunday, January 28, 1990 from 0000 to 0300 Eastern Standard Time. WAGL will be broadcasting with its daytime 50,000 watts into a directional pattern. The broadcast will be in QCA/AM stereo and if you do have your stereo light on please let them know. Please direct reports and thanks to Mr. R.L. Phillips, President, Arranged by the Colorado CPC Machine for National Radio Club.  

WCIL-1020 P.O. BOX 700, Carbondale, IL 62903 will conduct a special DX test broadcast on Thursday, February 8, 1990 from 0030 to 0700 ET. The test will consist of a special test announcement, Morse Code ID's and music. Reception reports are requested. All reports should be sent to Mr. Paul H. McRoy, General Manager, Arranged by the Colorado CPC Machine for the National Radio Club.  

WRSW-1480 P.O. BOX 144, Warsaw, IN 46580 will conduct a special DX test on February 4, 1990 from 0530 ET to 0555 ET only. The test will be conducted using the 1 kW daytime facility. At 0555 WRSW will switch to 500 watts. The test will consist of Morse Code ID's, Code ID's and will be interspersed with oldies from their automated programming. "In addition to acknowledging repeats I will award a special prize to the first to report our signal. Regards,” James L. Swearingen, Chief Engineer. Thanks to Mr. Swearingen. Arranged by the Colorado CPC Machine for the National Radio Club.  

WLUS-980 - P.O. Box 1068 Gainesville, FL 32602 will conduct a DX test on Sunday morning, February 18, from 0400 to 0430 EST. Test will consist of Morse code ID's, an explanation of the test, and fast-tempo big-band style music. Power will be, from 0400 to 0417: 5 kW, 0417 to 0419: 5 kW, 0419 to 0421: 25 kW, 0421 to 0423: 160 kW, then, return to 5 kW. Code ID's will be used during all segments. Our thanks to Mr. Tim McGuire, CE, for this test. Arranged by the Colorado CPC Machine for the National Radio Club.  

WIVV-1370 P.O. BOX 338, Vieuxes, PR 07635 will conduct a special DX test on February 19, 1990 from 0000 to 0426 Eastern Standard Time. At 0426 WIVV will sign on for normal broadcast day. The test will be run with 9000 watts non-directional. Test will consist of Christian music with frequent voice and code ID's. Our thanks to Mr. James C. French, Operators Manager, Arranged by the Colorado CPC Machine for the National Radio Club.  

From the Pub Center ... The #4 Updater for the NRC AM Radio Log is now available for $2.00. Order from the Publication Center.  

DX Time Machine  

From the pages of DX News  

Twenty-five years ago ... from the January 23, 1965 DXN: Eight CPC tests were listed on the front page of DXN, five from NRC, two from IRC, and eleven from the Newark News DX Club ... Geo Fox, Elia Pf. Ok, Yocto Territory, had sent reports to Alaska, Hawaii, Asian Pacific, Mexico, Europe, Germany, China, Sweden, Luxembourg, Poland, England, Scotland, Wales, Ireland, E. Germany, Philippines, Austria, New Zealand, France, and S. Korea, and more to go to W. Germany and Austria ... Matthew Geiser, Sherrillsville, IN fixed up his Q-Multiplier and bagged Chechoslovakia-1286, India-845, Hermitas-746, Lisbon-665, Chechoslovakia-638, Luxembourg-1439, Germany-1586, France-836, Horky-1178, and Sundsvall-1221.  

Ten years ago ... from the January 1, 1985 DXN: Four CPC tests were listed, all from the NRC, and Pat Rutledge was happy to see a little Fuller CPC schedule ... Chuck Haddon bought the last 12 Radio Shack TRF-12 (665) in Atlanta, they were discontinued ... Craig Beal resigned from WRAR-290 ... Kermit O'Reilly visited Dave Thomas, operator of former pirate WIMS-1560, on a trip in Florida ... Mark Connelly recalled the 'Great Northeast Blackout' of November 9, 1965, as did ERC.  

The World's Oldest and Largest All Medium-Wave DX Club  

DX NEWS  
The magazine of the National Radio Club  

Volume 57, No. 15 - January 22, 1990 (ISSN 0737-1639)  

Since 1933  

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

Jerry Starr
c/o WJOT Radio
4040 Simon Road
Youngstown, OH 44512-1320

Status changes in AM stations, supplied by the FCC and NRC members

**CALL LETTER CHAN GE:**
Old call: WMNY
New call: WMNY

**APPLICATIONS & GRANTS FOR NEW STATIONS:**
None

**APPLICATIONS FROM EXISTING FACILITIES:**
None

**GRANTS TO EXISTING FACILITIES:**
740 WMNZ FL Orlando: power to 105000/75000 w, relocate to KX
1440 WPTQ MA Worcester: antenna to EF

**O THERWISE:**
880 WMEQ WI Menomonee: station is here ex 1350 Khz.
960 WXP FL Gulf Breeze: station is SILENT
1110 KJTT WA Oak Harbor: this station has been on the air for several years, our comment on those few issues ago was a misinterpretation of a rather vague release from the FCC regarding the KJTT request.
1120 WDFJ VA Suffolk: new station is ON THE AIR w/agreement
1300 WING NJ Ewing: silent for a short period, station is back ON THE AIR
1310 KTKR CA Taft: station is SILENT
1440 WCCF FL Lehigh Acres: silent station returns to the air on 2-5-90
1480 KVON WA Lakewood: slight change to our comments on this two-station arrangement of this frequency once KLAY moves to 1180 kHz, this call will be used every day but Sunday when KPLH will broadcast
1530 WPJL TN Huntingdon: silent station is back ON THE AIR
1630 KS2XAH VA Norfolk: follow-up to our comments last month, this oft-heard experimental operation is from WNIS-880 being used to proof the antenna system for their new 30 kilowatt operation which should be operational in February

**THANKS for contributions go to:** DAVE SCHMIDT, ED CHRISTIAN, GEORGE PARISH and M STREET Journal

73 and Good DX, Jerry & KBF Jerry Starr & Buffalo K. Foonman

---

**Domestic DX Digest - East**

William Hale
734 Burleson
San Marcos, TX 78666

**MEDIUM WAVE RAMBLINGS:**
- Two new reporters are welcomed this week: Burton Zakek of Providence, Rhode Island, and Chris National of Warren, Michigan, both with their reports on early morning loggings for our pleasure. Hope we have lots more from both of you.
- New Years morning brought in a couple of surprises here...KSP-1100 with a clear, full ID, 0600-0630, and CB-990 from about 0615-0630 with loud Manitoba weather (brrrrrrrrr) mentions. Never thought 1'd hear either one of those down here! 1990 off to a good start.

**FM 100 & AM 820**

**WXEZ**

1580 WXNN KS PASCOAGLA 12/21 1600 with w2b by male followed by full legal
**PRO FROM the beautiful Mississippi Gulf Coast. WM-BH-PH**

**PIRATE ACTIVITY:**
1610 WDI NY OTTSTADT 12/16 2200 L & C with ROX mx, frequent mention of P.O. Box in Cotterill, which I can't find in the road atlas (82-PII) It can't actually find it either, but the ZIP code directory says Cotterill, 12B19 (issue date 12/2) on Lake County, NY, near Kingston. It's up in the Van Winkle county area. LauraMcCue, help us out here-Ed.)

**WDO NY OTTSTADT 12/16 2222 noted with usual ideal and ROX mx by the Grateful Dead! good (CR-ON)**

**MIDNIGHT TO MIDDAY**

570 WHTY MS BLOXSI 12/24 0635 with non-stop SM 'all w2k' 0650 (120° on the Gulf Coast), gave a couple of SM Stereo K22 mx and back to w2w by ALBARES, fair with WXNN nullled and no sign of usual WMFQ (CR-ON)

590 WGW NQ DUMAS 12/23 0726 poor with 605 mx; down by 0726 (HF-M12)

600 WQOE LA NEWORLDS 12/16 0700 poor w/sign-off (KNL-11)

630 CKRC MB WINNIPEG 12/3 0315 fair with Carolyn Moore with CMX 0mx; ad for Furniture Cleaning in ND, CFCU GRMN (HF-M12)

640 WALS OK RUGAR 12/15 0700 poor w/sign-off (KH-78)

650 WQFG MN NORMAN 12/18 0330 fair with ID of SM Stereo 650 WQFG; female w/SM mx, add for Noy's Sport & Cycle, Fashion Corsets at the Thunderbird Mall, ABC MX @ 1600; WCM GRMN (HF-M12)

680 KNBR CA SAN FRANCISCO 12/2 0415 fair w/Neil Noyes & Sekertt; from the giant reach of the station 68 KNBR GRMN from CFRT/KFQO (HF-M12)

710 WDFZ NY TULLAHOMA 12/26 0130 w/Rolling Stones Under My Thumb & Joe Jones; You Talk Too Much; 0130 male adds & mentions of upcoming concerts; 0130 ID: WDFZ Tullahoma plays your favorites! Sleep Boys' Sleep Join 8 & other ODDTOS, poor w/latin mix in KNL-12)

760 KCCY KS OVERLAND PARK 12/29 0600 poor, but way over WJR with sign-on in KNL-11)

850 KOA CO DENVER 12/12 0440 poor w/sign-off in KNL-11)

910 WRCM SC ORCHARD TERRACE-BRENTHOOD 12/24 0059 fair w/SM mx 'all over Tullahoma playing your favorites! Sleep Boys' Sleep Join 8 & other ODDTOS, poor w/latin mix in KNL-12)

920 CFLS NY LEVEY 12/24 0105 came out of FF news cast with a long list of Queens radio stations (a network of mesh type) including a mention of CFLS WSH-19/35 (CFLS) 29/40 CFRGR MN mx fair (KNL-12)
NRC Stationary

Now only 5.00 for 100 sheets... including the NRC logo and header in black ink. Order today from the Pub Center.
US 4100 Miami Beach heard at 0455 on 11/26 with a talk between the speaker and a listener. Then a interview to the person in the studio about baseball. (Obj:1)

MEXICO Autism XEFL fair in WCBM null with full ID "Estas es XEFL Radio Costa" at 0422 12/7. Upbeat nonscript LA mx followed. (Thomas)

UNID nill-fair w/soft SS ballads 0535 and very quick ID (unscripted) and carrier cut to be looped Cubs but many mentions of Honduras. Owner. (Thomas)

BELIZE Belize City Radio One in and out 0430 12/7 w/talk by EE female about love and Christmas. (Thomas)

PUERTO RICO WPRP Ponce surprisingly strong with a baseball game between Maraguyo and Ponce at 0100 on 11/30. (Object)

Perú Nacional 12/20 2230-0405 super weak, fading up through WYFX splatter. SS male enner, Latin EZL mx. ID at 0400 as "Transmite La Voz Nacional de Perú". This only a couple of hours before all hell broke loose there. Subsequent monitoring tough, not sure what outlet this one is, some Nacional outlets at this writing still in Noriega loyalist hands. (Scott)

UNID 12/20 0409 very weak sig of Latin mx and SS talk. SS woman at 0409 though faded. Tip from Bob Winker in Lauderdale lakes indicated that 5th had been playing several mentions of Costa Rica and Cuba but no clear ID's caught. Could 8th have been Transmedia? (Obj:1) I think there are two stations still on 0205, the second a national South America but I don't know who - Chuck

VENEZUELA Ferial Mundial Zulia, Maracaibo at 0900 on 11/26. Good. Then announced Armas Camilo, a singer very well liked here as well.

VENEZUELA R. Vision, Machiques, ending transmission on 11/26 with Estado Zulia hymn and then "Gloria al Bravo Pueblo", Venezuelan National hymn at 0400. (Obj:1)

ANTIGUA (Guatemala Radio, St. Johns with EE speaking music with the typical accent of the English Antilles, some disco mx at 0403 on 11/26. (Obj:1)

MEXICO Leon XEKF fair with shouted "X-FL" ID's at 0500 12/17. Upbeat LA mx followed. (Thomas)

UNID "Radio Solar" fair w/soft ID's around 0337 and looped E-4. No calls heard. (Thomas)

COLOMBIA Lo de Colombia ID at 0900 on 11/11 w/Colombian pop mx, very strong as a local 5th mx. Not listed on this freq in BY WRTH. There is one LV de Colombia at Cartagena. (Don't have ID)

COLOMBIA LV de la Patria, Barranquilla, got this just in the moment of ID at 0417 on 11/26 and annt of off with Colombian NA. (Obj:1)

PUERTO RICO WWHO San Juan, just heard some ads with addresses in Spanish at 0405 on 11/11 and pop mx. (Obj:1)

COLOMBIA "Radio Melodia lider en Sintonia", Medellin (Radio Melodia is being tuned IDing this was at 0230 on 11/10 then instrumental music. (Obj:1)

COLOMBIA R. Rele, Cartagena just heard the ID with a female ID's at 0207 very fast iding on 11/11 w/Colombian pop mx. (Obj:1)

VENEZUELA "Radio Bahia en los catorce-veinte (14-20) no duerme" (Radio Bahia on 14-20 does not sleep), Puerto Los Carus. Heard this ID on 0251 on 11/11, and pop mx. (Obj:1)

COLOMBIA "Radio Cadete de la Paz is in the canto-twelve" (one thousand, four, thirty). Ided this at 0400 on 12/6. Did not mention location, but it announced the winning numbers of the lottery. It is a new name, probably for the air and heard in Manizales, Cali, she said that the speaker was the pride of Santa Maria, a neighboring town. (Obj:1)

COLOMBIA R. de Avila CMIL R. Sozrus owning the channel at 0329 12/17/ with upbeat LA mx // 1440 outlet. (Thomas)

Cesar Objio - Santo Domingo, Dominican Rep. (5000) TRF, 4' loop

Russell Objio - Hollywood, FL 7700, Kowell's loop, WWY700

Berry Thomas - Petersburg, FL 770, Super Loop

Cuban CMIL 12/18 2252 Radio Tal I.D by female. Fair. (Townshend)

CUBA SANTA CLARA CMIL 12/18 2252 SS talk, LA mx, ex CMIL. Fair-good. (Townshend)

CUBA Ciego de Avila CMIB poor/fair w/classical mx and R. Musical Nacional ID's; // strong 950 outlet. Noted at 0900 12/26 w/DS and NA. (Thomas)

HONDURAS R. Paracelo RHPG noted in passing at very poor level w/35 male singing 0208 12/27. (Thomas)

CARIBBEAN ISLANDS George Town better than usual w/mix. Noted because on past listed 0430 12/6. This at 0525 12/10. (Townshend)

UNID weak carrier here 0430 1/3 and looped just N of Anguilla on 12/17. Probably a TA. Sea only传染病 news, maybe hearing noted on 1539 at same time (Seneal also listed here). No audio on either. (Thomas)

Rebecca Thomas - South Carolina, FL 770, Super Loop

Bill Townsend - Washington, DC ICF2010

MEXICO Changes: 640 XEYO Fremnillo ex 890, 700 XEKO Hidalgo del Parral ex 1400, 750 XEKO Chihuahua 800, XEEX 1270, 770 XERE Los Mochis long ex 740, 870 XEEMS Mazatlan, 510 now here, 880 XEEX. Chihuahua, CN is ex 1030 XEHMF Chihuahua, La Fodera is new, 1600 XEPIST Tepaca is new with 1 kw. 3M61 IS is off the air.

COSTA RICA the VOA outlet on 960 kHz has closed.

COLOMBIA R. PLUS, 8-9 kHz lit green in the canto-twelve, (object:1) on 12/17, it was at 0449. Did not mention location, but it announced the winning numbers of the lottery. It is a new name, probably for the air and heard in Manizales, Cali, she said that the speaker was the pride of Santa Maria, a neighboring town. (Obj:1)

COLOMBIA R. de Avila CMIL R. Sozrus owning the channel at 0329 12/17/ with upbeat LA mx // 1440 outlet. (Thomas)

COLOMBIA R. de Avila CMIL R. Sozrus owning the channel at 0329 12/17 with upbeat LA mx // 1440 outlet. (Thomas)

COLOMBIA R. De Cienfuegos in the celebration of an open air party at 0435, many IDs, but not listed in the log 0917. Maybe a move from 1440, the station network as announced on 11/26. (Obj:1)
Trans-Atlantic, Past and Present... by Benjamin Dangerfield

I’ve been working over the TA’s (Trans-Atlantic) for several decades, (or perhaps you could say they’ve been working over me,) and I recently returned from six weeks in TA-Land. It seems a good time to reflect on those decades, and, to keep the interest alive, I have put together a rundown on the stronger stations heard during those weeks in Turkey and Germany, and in Belgium. Incidentally, this was my 15th trip across the Atlantic. I have also included Trans-Pacific areas on six occasions.

This affair with the TA’s began way back in the Thirties but I never heard any at that time. I was a teenage fitter, living in Pittsburgh then, using 5 and 6 tube receivers hooked up to outside aerials. I bought and read RAEAX every month, including the reports of European reception, but I guess I just didn’t know how or where to tune in these stations, or else the reports were not strong enough. Oh, I did pretty well with West Coasters, Californias, Cubans, and some South Americans, but I had no luck with the TA’s. I just assumed my receiving equipment wasn’t good enough. But in October 1943, I had a really good opportunity to hear European medium wave radio stations. First, I was living in France, that is, as a member of Uncle Sam’s Army in Europe. In fact, I was able to listen to European and North African stations for almost three years, in England, France, Belgium, Germany, and Austria.

I shall always remember my first night in England. At Palverin in the Midlands. Our hut had a radio, and I heard my first medium wave BBC stations. But they had put all their transmitters on 5 regular wavelengths, 3 carrying the Home Service and 2 with the Forces Program, and I had a hard time figuring out which stations I was hearing. (Air raid protection, I believe.) There was also a European Service, broadcasting messages and news to the continent. (There still is!) I heard a lot of French, German, and Italian speaking stations, but the most interesting was Radio Calais in France, where we heard Lord Haw-Haw and Axis Sally. I was using Gribben’s Miller records, and telling us what the back home were up to. There were also some low powered American Forces stations in England, most of them off frequency and causing bad beats.

When our outfit reached Normandy, in the summer of 1944, the AFN stations had set up portable transmitters that the American Forces all the way into Germany where they then became part-time broadcasters in places like Munich, Stuttgart, Frankfort and Berlin. At one time, Paris had an AFN station, too, whenever we were there “requisitioned” high powered receivers, and I disconnected whenever I had the chance. I was used for U.S. stations, but got stationed for several months, waiting for the trip back home, and had the time to compile a log of all the existing European and North African stations by frequency. By that time most of the transmitting stations were on the air, and the BBC had shifted to the longer wavelengths. Two of the strong signals were from Radio Luxembourg and Algeries, but Hamburg and Cologne were quite good, too.

I came home just before Christmas 1945, and you can’t believe how good it was to hear WMEC 200 miles off the Virginia coast. From that moment on I tried to pick up those elusive TA’s on my little Philco from my new home in Wynnewood, Pa., a suburb of Philadelphia. But even with that log of stations I still heard no TA signals. Then, almost by chance, in December 1956, the opening of the Peace put 2 and together and decided that the nets I was hearing coincided with the frequencies of European stations.

So: sat on them until one night in early December when the nets just below WMEC 880 (now WCBS) became London-797 at the WMEC 1245 A.M. 910. I was off loud and clear a red ad it was a real thrill. The Berlin-1302, Lille on 1393, Toulouse on 913, Start Point on 977, Monte Carlo on 1456, and others. And on an afternoon’s day or so later, Wimations-RS at 4:30 P.M. The Clevedon on 1302, Lille on 1393, Toulouse on 913, Start Point on 977, Monte Carlo on 1456, and others. And on an afternoon’s day or so later, Wimations-RS at 4:30 P.M. The Clevedon-RS was a cycle of minimum sun spots, and I think I was picking up more TA’s on more nights, and they were starting to come in from mid-afternoon (sometimes) until the wee hours of the morning.

Back to September 1964, Tunisia-629 was logged on one evening at 7:00, while the QUICKEN-RS was nothing but publishing and I didn’t know about the BBC or any other radio clubs.

Twelve years went by, and I had married, fathered three children, and bought a home in Wallingford (between Philadelphia and Wilmington) before I resumed foreign DXing. Inspired by an article on DXing the

World by C. M. Stansbury in an early fall 1955 edition of Radio-TV Experimentor, I dusted off my Philco and went outside and put up a 75 foot long wire. I also joined the National Radio Club (mentioned in the article) in October. And there they were, on new frequencies, the TA’s from Europe and North Africa along with the LA’s from Central and South America. And the DXers verified with a passion that eventually netted me 423 stations in 119 countries. But 107 of these stations and 66 of these countries were verified TA’s, and that’s what I’m writing about.

During the first couple of years of my DX "rebirth" I logged a fair number of these stations, either from late afternoon until early evening or, but about midnight to 7:30 A.M., and on weekdays and even-weekends here. There are some of the more consistent signals from those years (1955, 1959, and early 1960). Keep in mind that this was a period of by the sunspots acting for relatively infrequent TA reception. LA’s were much more commonly heard.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Location</th>
<th>Power in kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>647</td>
<td>Coventry, U.K.</td>
<td>150</td>
</tr>
<tr>
<td>665</td>
<td>Lisbon, Portugal</td>
<td>150</td>
</tr>
<tr>
<td>692</td>
<td>Rhodesia, Z. R.</td>
<td>150</td>
</tr>
<tr>
<td>737</td>
<td>Barcelona, Spain</td>
<td>30</td>
</tr>
<tr>
<td>755</td>
<td>Lisbon, Portugal</td>
<td>135</td>
</tr>
<tr>
<td>782</td>
<td>Porto Mós, Portugal</td>
<td>100</td>
</tr>
<tr>
<td>836</td>
<td>Nancy, France</td>
<td>150</td>
</tr>
<tr>
<td>860</td>
<td>Rome, Italy</td>
<td>150</td>
</tr>
<tr>
<td>863</td>
<td>Paris, France</td>
<td>150</td>
</tr>
<tr>
<td>909</td>
<td>London (Groomey’s Park) U.K.</td>
<td>100</td>
</tr>
<tr>
<td>926</td>
<td>Brussels, Belgium</td>
<td>140</td>
</tr>
<tr>
<td>935</td>
<td>Tangier, Morocco</td>
<td>140</td>
</tr>
<tr>
<td>943</td>
<td>Tangier, E. U.</td>
<td>140</td>
</tr>
<tr>
<td>1052</td>
<td>Start Point, U.K.</td>
<td>120</td>
</tr>
<tr>
<td>1056</td>
<td>Dr. Strangelove, U.K.</td>
<td>120</td>
</tr>
<tr>
<td>1100</td>
<td>Bratislava, Czech.</td>
<td>150</td>
</tr>
<tr>
<td>1106</td>
<td>AFN-Stuttgart, W. Ger.</td>
<td>100</td>
</tr>
<tr>
<td>1115</td>
<td>Budapest, Hungary</td>
<td>135</td>
</tr>
<tr>
<td>1120</td>
<td>JO-Rethimno, W. Ger.</td>
<td>150</td>
</tr>
<tr>
<td>1205</td>
<td>Nordhorn, France</td>
<td>100</td>
</tr>
<tr>
<td>1214</td>
<td>BBC-Light, London, etc.</td>
<td>50</td>
</tr>
<tr>
<td>1296</td>
<td>Prague, Czech.</td>
<td>100</td>
</tr>
<tr>
<td>1316</td>
<td>Radio Station in W. Germany</td>
<td>100</td>
</tr>
<tr>
<td>1376</td>
<td>Lille, France</td>
<td>350</td>
</tr>
<tr>
<td>1430</td>
<td>Luxemburg</td>
<td>150</td>
</tr>
<tr>
<td>1457</td>
<td>Cluj-Napoca, U.K.</td>
<td>150</td>
</tr>
<tr>
<td>1458</td>
<td>Monte Carlo</td>
<td>400</td>
</tr>
<tr>
<td>1456</td>
<td>Nice, France</td>
<td>20</td>
</tr>
<tr>
<td>1506</td>
<td>Oldenburg/Meerbus, W. Ger.</td>
<td>40</td>
</tr>
</tbody>
</table>

The stations were heard most often and with good signals. Note that only 3 stations used more than 200 kilowatts, and there none over 400. Just compare these with some of our present day monster's.

During the rest of 1960 and in the years 1961 and 1962, reception of TA’s was anything better and better, and in January 1962 I acquired the 9-100 which I still use. The low powered stations in Spain and Portugal somehow sounded like semi-locals, and I’m talking about powers of five kilowatts and less. Countries farther away, like Sweden, Norway, Romania, and Yugoslavia, were being verified. And as for North Africa, between 11-6-62 I had varies from Cairo, Alexandria-1304, Agadir, Morocco-555, Sirtm, Egypt-318 and Tunisia-626. Also, in 1962, I logged and verified South Africa-386, Senegal-1036, and Ivory Coast-1943. In 1963 some of the most interesting catches included that fellow clear signal from 11-5-63, from Niger-1511, and Liberia-650. Note the increasing distances and the low frequency stations now being heard. But the peak conditions came in 1964 and 1965, when we were picking up more TA’s on more nights, and they were starting to come in from mid-afternoon (sometimes) until the wee hours of the morning.

Back to September 1964, Tunisia-629 was logged one evening at 7:00, and quickly, the QUICKEN-RS was nothing but publishing and I didn’t know about the BBC or any other radio clubs. Clearly, it was a real thrill. I was off loud and clear a red ad it was a real thrill. The Berlin-1302, Lille on 1393, Toulouse on 913, Start Point on 977, Monte Carlo on 1456, and others. And on an afternoon’s day or so later, Wimations-RS at 4:30 P.M. The Clevedon-RS was a cycle of minimum sun spots, and I think I was picking up more TA’s on more nights, and they were starting to come in from mid-afternoon (sometimes) until the wee hours of the morning.

WAKETV 1800
with at least five other Eastern European countries, (wouldn't it be fun hearing them now? Also, BBC-647 and other national networks joined in with musical and light hearted shows, but no new music, occasional live, and most regions were on 5-9 MHz.)

On Oct. 31st, Sofia, Bulgaria-572 was local-like from 4:30 to 5:00 P.M. On the same afternoon I heard Sweden-795 for the first time since last year and found no real interference. France was still not there. The Scandinavian stations, however, became clearer. France, Germany, and Dachau were heard with some distortion. I was searching for them all next time, and found them not to be that hard to pinpoint. France became clearer and the Scandinavian stations were sharper. I was able to hear four of them, and they were coming through fairly well. The biggest discovery of the week was the addition of several new stations from countries that had not been heard before this month. These included the Scandinavian countries, Belgium, and Luxembourg. These stations were coming through fairly well, and were able to be heard for the first time.

December 1967 was full of good things. Including Radio Veronica-1557 broadened the spectrum of what was heard on the air. Radio Veronica was a new one this year, coming in at 9:00-10:00 P.M. on 5-9 MHz. This station was not heard before this year, and was only heard on a few occasions. Radio Veronica was able to be heard with some static, but was not heard on a regular basis. Radio Veronica was a new addition to the spectrum of what was heard on the air.

December 1967 saw a lot of new countries and stations added to the air. The biggest discovery of the week was the addition of several new stations from countries that had not been heard before this month. These included the Scandinavian countries, Belgium, and Luxembourg. These stations were coming through fairly well, and were able to be heard for the first time.

December 1967 was a busy month for me. I was able to hear several new stations from countries that had not been heard before this month. These included the Scandinavian countries, Belgium, and Luxembourg. These stations were coming through fairly well, and were able to be heard for the first time.

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Verificationsigners

A listing of verification letter signers, contributed by NRC members

Wayne Heinen
4131 S. Andes Way
Aurora, CO 80013
(303) 698-9359 (prepaid only)

Verifiers

Freq. Call Verifier Location

530 CEYIZ Ron MacLachlan MI DT

520 WGOJ Jack Windsor CE DT

1250 WLUOBarlow CE GM

700 WADOM Richard N. Res CE GM

2150 WKSST Werner Ulrich CE GM

1050 WBEZ Bill English CE GM

1500 WZZQ Peter Hune GM VA

1570 WSLAI Tom Folley CE WH

1600 WMBRJ Bill Murphy CE V

1650 WKNR D. Andrea Phillips, Staff VA

1920 WLCMI Bill Curry G/M VA

1970 WSAl Ray Winters CE WV/VT

2020 KCIM Debra Kulik DoP/Dop/FHF/BW WV/VT

2250 KGEH Bob Sheets CE WV/VT

2300 KSSG George Simmons Cn WV/VT

2450 WFRAL Robert H. Sauber CM WV/VT

2400 KOMAI Dwight L. Maddon CE WV/VT

2350 WWOOL David Balcolm Op WV/VT

2470 WLOID Peter Walkleya CM WV/VT

2480 CKANIV Kevin Gibbs CM WV/VT

2490 KLBRC Kitty Malone CM WV/VT

2550 MTEBA KITO Ripley Op WV/VT

2570 WABLN Jeffrey Cogroge CM WV/VT

2600 KSDUL Robert F. Fransen CM WV/VT

2650 WDSLIN George Fry Jr Op CM WV/VT

2720 WWOFGp John F. Coneway Op WV/VT

2750 WPEFR Lenore F. Carozza CM WV/VT

2850 CBBJ Camille Roch CE WV/VT

2880 KXCO Bob Roberts Op CE WV/VT

2950 WPBRA Brenda Green CM WV/VT

Initial Name

Ry Aruda MA
Warren Garfield MA
Henchel FF MI
Harold Fodge MI
Bob Walker MT
John Williams MT
Robert Van MT
Dol Treford ON
Wayne Heinen CO

Join the verification game!

Now, you can help out with station tests. Here’s how: Send Wayne Heinen — 4131 S. Andes Way, Aurora, CO 80013 two 25¢ stamps per station, and Wayne and Jeff Tymann will print your name on the occasional verification request letter for you. You can either specify station and time, or just take pot luck. Increase your verities and help other NRC members at the same time — join the verification game!
Comments on G. Maynard's Synchronous Detector... by Wayne Heinen

After reading articles by Graham Maynard on his Synchronous Detector circuit for the R-390A in both "Hobby Radio" [1] and NCR's "DX NEWS," I decided to check out this inexpensive mod to our R-390A.

Parts were mostly from my own junk box with the trimmer cap being purchased at Radio Shack, 2 for $1.98. The initial results were very encouraging. I'm using the second circuit from HSN Vol. 19, pages NCR "DX NEWS" Vol. 56, No. 2B.

I used Graham's technique for constructing C1 and mounted all other components on a piece of perf board.

The ground connection was made by fastening a spead lug to a mounting screw located just under the "Gain Adj" pot (US1). I used #14 solid wire which allows the light weight perf board assembly to "float" just to the right of ID2. For ease of installation, I used a test socket to make my connection at Pin 1-V50S. The adjustments of C2 and C3 were rather critical, but after peaking them three or four times, I did obtain -16 to -18 volts at the diode load terminal with the circuit locked on a local signal. I have mounted an old Inoperative Radio Shack VOM next to the RX with permanent connections to the diode load terminal and ground. In order to fine-tune the lock on the carrier, I adjust the BFO oscillator with the BFO control instead of using the Hz tuning knob. As the signal locks on, the voltage abruptly swings from -10 to -12 volts up to the -16 to -18 volt range. When drifting occurs, wide swings of the meter and an oscillation in the audio is heard. By adjusting the BFO oscillator control slightly, I can usually maintain the lock on the frequency.

My experience has had an important effect. It has introduced me to a world of better audio and therefore easier-to-understand DX on BCB at a price that I could afford.

I'm using a Motorola PTO, RN-390A UBR model manufactured SN #10607 with this basic circuit. I mention this because certain model PTO's will work better with Graham's first circuit than with the second circuit.

The first circuit is reproduced below. For some comments on the various PTO's and which circuit works best with which PTO, you can check HSN Vol. 19, pg 1. However, I recommend experimenting. I am having more success with Graham's second circuit, although others have reported more success with his first circuit in units with the Motorola PTO.

I have observed that the amount of drift, and consequently the period of time that the circuit maintains the lock on the channel, differs from band to band. This is probably due to crystal stability in the IF oscillator crystals. (See Dallas Lankford's comments HSN Vol. 19, pg 7.) On the BCB bands, I am able to maintain the lock between 5 and 10 minutes. This is after a 15 minute warm-up of the receiver. I have maintained the lock for as long as a half hour during extended DX sessions. A comment is a recent letter from the circuit designer Graham Maynard: "I believe that the R-390A has massive thermal inertia and can be considered "warm-up" until it has been running for 2 or 3 hours. My own unit sets synchronous lock for days. I have replaced all of the inaccurate or "drifty" crystals and made sure all the oscillator tube pins and socket contacts were good and clean and made it a point of NOT using the oven." I have noticed good results on obtaining more intelligible audio from crowded channels. A few recent loggings of graveyard stations from Texas were due in part to the synchronous detection mode. With it off the audio was jumbled; with it on, and locked to the frequency, there was a distinct improvement to the intelligibility.

All in all, the circuit for the price is EXCELLENT. It certainly will allow R-390A users a chance to experiment with synchronous detection at an affordable price, as opposed to plunking down a quantity of money for a synchronous detector kit prior to seeing if the technique is viable for your listening requirements.

To Pin 5
C1 R1 R2 C2
500 11 1 30
To Pin 1
V50S
C1—See Graham Maynard's Article (Ref above)
C2—15pF
R1,R2, 100 K

ERRATA CORRECTIONS... by Wayne Heinen

In a recent letter from Graham, he asked me to pass along a correction to the schematic of the Audio Module (DXN Vol. 56 No. 2B). He stated that in making his final drawing of the schematic for "DXNEWS" both D2 and D3 were reversed. If it's built as shown, it won't work. Simply reverse the diode configuration with the leads connected to the "pin 10," the diodes 10 and 13 and the transistors to the base of B1. This is the waveforms of the circuit diagram should have read. Although I have not tried this mod yet, it is on my list. I hope to have further reviews of this and other mods in the future. My thanks to Graham for his fine work on these R-390A mods and for keeping us informed.

The next generation ofThresholds are coming, with shared tips and requests by NCR members

TARGET DX

Jim Renfew
61 Wilcox Street
Rochester, NY 14607-3832

DXing 'smart', with shared tips and requests by NCR members

I received a nice phone call from Don Telford of Arkansas. Don added the other day. Don has broken another record. He has been busy with 20,000 card and the verification letter. Don called me to tell me that he has a list of many stations that he believes are good including some powerful ones on 750, 1000 and 1100 kHz.

Don's net is a success for this month's column: parallels. A previous column noted the various shortwave - mediumwave parallels that exist. I'd like to point out that there are plenty of parallels within the mediumwave bands alone.

First, foreign broadcasts often transmit the same program over different frequencies. Ghana is famous for this, with every broadcasting network in the country using different broadcast frequencies. Ghanas has another system, Radio Foreign, which uses different frequencies for the same program. In our case, we have been able to log as many as a half dozen new stations simply by getting an ID on the lowest one on a clear channel and then digging for the rest on another channel. Radio Wolof is perhaps the easiest with its tell-tale Morse code "R" ID punching through the interference every minute. How many other stations do you know that ID every minute?

Cuba is just the beginning... CUBA, a Cuban network often has the same program on different channels at different times. In October I heard CUBA on 1000, 1100, 1200 kHz. I've also heard the same program on different frequencies in the same week. An example is the English language program on 400 kHz, but also heard on 750 kHz. In Cuba, you can hear on several frequencies at once, much of the same program.

Havana has two networks that can be heard on several frequencies at once. One is the Cuban National Network, which has a network of local stations. Havana has two networks that can be heard on several frequencies at once. One is the Cuban National Network, which has a network of local stations.

Sometimes a number of parallels operate on the same frequency, such as those from Spain in 1994, but it's often difficult to get all the stations that are operating because they're in parallel. In Cuba, many stations are broadcasting on different frequencies. In Cuba, you can hear on several frequencies at once. One is the Cuban National Network, which has a network of local stations.

Among American and Canadian sports events are often broadcast on networks which carry the same event at different times. For example, a search through the network list for hockey shows "Spain" and "French" on the same list. I've seen this happen on other networks as well, meaning I have no idea which one it was heard.

In fact, I heard at least two 400 kHz outlets, because they were running on different frequencies and times.

I'm planning a trip to Cuba and I hope that we can help you provide some detailed program information from those stations on your return.

Sometimes a number of parallels operate on the same frequency, such as those from Spain in 1994, but it's often difficult to get all the stations that are operating because they're in parallel. In Cuba, many stations are broadcasting on different frequencies.

Sometimes a number of parallels operate on the same frequency, such as those from Spain in 1994, but it's often difficult to get all the stations that are operating because they're in parallel. In Cuba, many stations are broadcasting on different frequencies.
Musings of the Members

Thoughts from NBC members...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.

WFMJ radio signal sold

John A. Grod, general manager of WFMJ-TV

In a deal orchestrated by Myron Jones, CEO of WHOT Inc., several mid-fall changes will take place at WFMJ. Among the changes, the FM radio station and the FCC license to broadcast from 1050 kHz, will be sold. The sale includes all the assets of WFMJ, including the channel 21 signal.

The sale is expected to be finalized by the end of the year, and the new owner is expected to be announced soon. The sale was approved by the FCC in late September, and the transaction is expected to be completed by the end of the year.

The new owner is expected to continue broadcasting the WFMJ signal, but with a possible change in programming. The sale price was not disclosed.

The sale is expected to benefit both WFMJ and WHOT Inc., as it will allow the latter to focus on its core business of television broadcasting.

KOIT fm 96.5 am 1260

Jim

Log sheets - By Frequency

110 sheets, 25 entries possible per sheet with space available to add your own column. Punched for three-ring binders, full-size 8.5 x 11 inches, on heavy paper. $8.50 (25 sheets for $12.50). Order from the Pub Center.
pleasure to listen to. A pleasant note: WOLX Joliet's Art Heyer starts his 44th year in
radio in January. He hosts a Saturday warming show now. Something he has been
doing for 44 years! Once a WGN host, I was always surprised when I heard him say that.
Because he was one of the first to do it regularly in the 30s, I never knew about it.
But now on 1000 in Englewood, IL, I was surprised to hear WGN on 2-O, at 12p.m.
also 1030 WGN, and today with Christmas radio, with ID at 8pm. For sure, WGN is
an icon in the market, with hits of the last 30 years. I lost my log book, so this is the
only way I can report. Just jot notes in my frequency book. I'm happy to hear new
calls, since I happen to be there when I see this page. Hope your mail delivery improves
in 1988. So it's back to the holes on AM 1000, and next Thursday, my Fighting Illini on
Illinois. The only time I ever listen to 11, 11. Happy New Year.

KMRJ-RTV, 215 Searleboard Rd, Stone Mountain, GA 30088

After the broadcast, the football game was set for 5:30 PM, but the terrain was
covered with water, and I could see that the game was not going to take place.
Conditions were quite good and there was a strong wind blowing. Game
was scheduled for 8:00 PM, but the wind was too strong. The game was
cancelled due to the weather conditions. I didn't see a lot of fans in the
tailgate area. We saw a few, but they were all scattered around.

JIM COFFIN, 5082 Apecott, Apt. 121, Alexandria, VA 22311

While doing some FM going in Cambridge State Park near Frederick, MD, on Labor Day, I
was happy to notice that I was listening to WBOC 104.1 from 800 miles away.
I didn't see many cars on the road, but I noticed that the radio station was
very strong. I must say that the reception was excellent. I tuned in to
WBOC and was able to pick up all the commercials. I thought it was
amazing how well the station sounded.

CHRM (CHRM) 670 Third Avenue, Vancouver, BC V6C 1E9 (604-682-6726) no calls
good signals received from the station. I had a good time hearing the
interestin catch that came back to me. I can't remember the exact details,
but it seems like the station was doing a special program.

BILL TUSENHED, 5600 Olsen Ave. NE #501, Washington, DC 20006

Greetings from Washington! On Saturday, 28 November, 18, including yours truly,
attending the WABC radio station hosted by Greg Monte. Among the highlights of
the event was the annual WABC radio auction, which featured a wide range of
items, including a WABC radio station plaque and a WABC station t-shirt.

ROCK USA, 2020 64th, Omaha, NE 68150 (712)-889-5200

Greetings from the Midwest! This letter has the pleasure of visiting NKWM
Kramer in Bobk, Indiana, during November 17-20. Despite late afternoon freeing
rain and slick roads in the Chicago, IL to Indiana area (on 1-80 near Notre Dame, I got
caught in a mudslide, I was faced with a challenging task, turning on my
radio and listening to the traffic reports. I made it to the station around 2315 Friday
evening, where I was treated to some great stories. I was impressed by the
quality of the station, and I enjoyed listening to the music.

Mike Harnes, KGO, KPQ, KIEZ, 3rd Marcy Ave., NY 11102, phone (212)-585-8689

Greetings from New York! This letter has the pleasure of visiting NKWM
Kramer in Bobk, Indiana, during November 17-20. Despite late afternoon freeing
rain and slick roads in the Chicago, IL to Indiana area (on 1-80 near Notre Dame, I got
caught in a mudslide, I was faced with a challenging task, turning on my
radio and listening to the traffic reports. I made it to the station around 2315 Friday
evening, where I was treated to some great stories. I was impressed by the
quality of the station, and I enjoyed listening to the music.
WAYNE EINHORN, 1531 S. Jades Way, Aurora, IL 60503-3681 (303) 636-9353

Paul's suggestion of names on how (Berks) can help stations was rather timely for me because of a recent contact with WRAD-1250 Gary WRAD. Joe Syman first noted the problem during an SBKNE Session on 11/3/86, "very distorted audio on 1250 and 1260. After some monitoring and taping both of us agreed it was WRAD. Since I was off the next day, I called WRAD and spoke with General Manager Greg Heitmann and alerted him to the problem. I told him I'd drop by a tape and he said he'd get an engineer on the problem. About a week later, I received a verification letter that read in part, "Thank you very much for your phone call, tape and letter of Classic KISS 1250. We are currently in the process of checking the problem. Your cooperation in giving us this information is greatly appreciated for the betterment of our station and your listening experience." Currently, I'm in contact with Paul 'O'Reilly of KEEN-1150, Brigade. Basically the same problem. Very serious sideband splash and spurious at 1140 and 1120. I'm continually checking, but all have been assumed to be due to both KEIM and WRAD calls will be answered, but currently, they're rather busy with the problem at hand. When I called the station, they thought they'd return the phones. By the way, the station/lexer relations was in 1984. KEEN-1250 in Gary, OE-1260 took the STL 25K filter. I had a PRC from those days, signed by QM W.M. Elam. I wrote a note letter to have removing my recent 25K filter above and below 1250. I returned I received a nice long letter. It started off, 'First let me say thank you very much for calling my attention to the improper radiation we were emitting.' It went on to explain why they hadn't noticed the problem, but the readers who had it corrected it. The lesson line was 'Again, my sincere appreciation for your notification.' 'As I noted above, we probably would not have caught it until this paper did.' Shortly after this came from WRAD, I started to get via info of form letter verified signed by W. Elam. Prior to this, only PRC series had been received from KEIM. (Below a copy of my KEIM letter back in a 1984 issue of DX News.) This only goes to show 'What goes around, comes around.'" -- Matt said 75.

Pete KRISP - KE122, P.O. Box 73, Bethel, CT 06802

Great summary all... Jack O’Hare has rejoined SW, in Philadelphia, as a sports anchor... recent international changes in Europe have certainly pointed out how quickly lines can change and how we all so depend on radio to provide us some degree of interactive awareness, and hopefully insight, into still unfolding events which affect our world. While TV has come a long way with providing us with the visual component to these stories, it is still RB that does the trick. When RB had a recent letter from a station, I received a nice letter, via amateur radio, from fellow WB2 Al Beaum (KE2FMC), peaked WBC may even make this via N7KS BR in CT. Although he resides in Connecticut, he has jumped to the city of San Francisco, where he has been able to see the city by the Pacific earthquake hit. In his note he recounts the extraordinary efforts of KIWI's Chief Engineer Al coloring, with associates Greg C73K and George GTO, at getting the station's mighty @X6 back on the air with creativity, hard work, and that don't give up spirit that seems to run through communications engineering staffs everywhere, when one operates pop up. I have taken the liberty of forwarding Al's complete letter to our esteemed editor for possible editing and inclusion in a future edition of DX News... Fragments of the famed Golden Gate are tangling in the United States News photo captions, offering listeners a "Piece of the Wall," a bit of history. I guess Capitalism will win out in more ways than one... So much for now... please send me copies.

The Challenging Crystal Set

By Ray Cole

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