

EASTERN TV-DX

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This month:

-- YE EDITOR'S MOUNTAINTOP DX ---
-- RECORD-SETTING TROPO FROM BOB COOPER! --

REPORTS FROM TV-DXERS IN AL, CT, DC, DE, FL, GA, IN, KY, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, TN,
VA, VT, WV, Quebec, Ontario, the Maritimes, and the Caribbean

JULY 1988

DEADLINE: 1st of each month

INCREDIBLE

For many years, Bob Cooper was as familiar a name in the TV-DX world as it is in the amateur and satellite fields. This month, Bob sent his first TV-DX report in a decade... and a doozie it is! A large high pressure area, combined with an all-water path, brought VHF and UHF signals from up to 1520 miles away to Bob's Caribbean location. And if that isn't enough, he noted hi-band E-skip up to channel 8 during the same 3-day period! Hard to believe? Let's let Bob tell us about it in his own words...

Bob Cooper, Providenciales, Turks & Caicos Is. (Mail: POB 100858, Ft. Lauderdale FL 33310)
I last reported in about 1978 (!). Once every ten years seems appropriate. At the time, I was reporting from Oklahoma (left there with 787 stations logged). Have lived here some 590 miles SSE of Miami since August 1980. Installed a semi-serious set of VHF, FM, and UHF antennas early in 1987 and have been DXing as time allows since. This could be a DXers dream: nearest locals, in the Dominican Republic, more than 110 miles away (2, 5, 9, 11). Within 300 miles, there are fewer than a dozen stations. Nearest UHF is nearly 600 miles (PR, FL). All channels clear all of the time, except for DX. At 590-850 miles, Florida signals most frequent DX seen. I have logged virtually every VHF and UHF (including xltrs) in the state except in western panhandle. No longer chasing stations per se because of parallel intense activity on 6-meter, 2-meter, and 70-cm ham bands; one has his priorities. So I end up using TV or FM as a "tip off" that conditions are ripe for distant VHF-UHF ham band contacts. This means we TV- or FM-DX "just before" and "just after" ham bands have opened. In the case of hi-band VHF TV Es, will cross check during intense openings. So much for background.

I will skip mundane Es and tropo to date. Skip started well here on April 24 and has been more consistent, and with higher MUFs, than past several years. Did have hi-band Es (chs. 7, 8) into NC & VA around 1830 EDT on May 9th. Naturally, I headed for 2 meters.

Massive, moist high pressure area laid all along east coast May 8-9-10, building strength daily. A front from the west began pushing on it early May 9. We saw rapid improvement in FL-area TV and FM sigs here. Started seeing hints of mid-Atlantic tropo on hi-band around 1800 May 9th; very confusing as we had Es into SAME area on lo-band, 7, and 8 at 1830! Can you log a 900-mile ch. 7 on Es and tropo at the SAME time? I did.

By 2300 May 9 things were humming. I stayed on 2-m and 70-cm until 0115 on the 10th, and then went to TV and FM. Logged in rapid succession WTNH-8 CT (1350 mi.), WPXI-11 NY (1215 mi.), WMUR-9 NH (1440 mi.), WGMF-13 ME (1520 mi.), WPRY-12 & WJAR-10 (MA) (1290 mi.), WNEV-7 MA (1360 mi.). Great sigs, many snow-free, very stable. Switched to UHF and then remembered that my B-T CMAU-LN pre-amp had been struck by lightning and not replaced yet. Oh, well... would try anyhow. WRCF-42 (1305 mi.) (where's that one, Bob?--jfc), WPXT-51 ME (1510 mi.), WLIG-95 NY (1225 mi.), WTIC-61 CT (1340 mi.), WNAZ-64 (MA) (1340 mi.), WHSI-67 (1215 mi.), WHSE-68 NY (1215 mi.), and WQTV-68 MA (1360 mi.). Band stayed open all night, with WSBK-38 MA (1360 mi.) and WBTW-13 SC (910 mi.) (SC snuck in there...) and others added. Around 0420, lo-band VHF also from Boston for unusual tropo distances: WCVB-5 and WBZ-4 at 1360 mi. Florida QRM off side of antennas, even 7' UHF dish, fierce at times. Virtually all New England on FM band until around 0530 fade-out. At that point as New England QRM peeled away, I started hearing 900-1000 mile narrow-duct NC sigs on FM (explaining earlier WBTW-13). Upon diagnosis, it turned out the UHF pre-amp was not dead, just badly wounded. It had lost lower end of band gain, and everything below about ch. 45 was a signal loss rather than a gain. Naturally, I have replaced that pre-amp.

As interesting as all of this may be ("interesting" is hardly the word for it!--jfc), my real target is Texas on UHF (1600+ miles). It's just a matter of time. And the Canadian Maritimes at 1800+ miles are also an interesting target. 'Til another 10 years...73, Bob.

(Well, at least send a mid-decade update, Bob, hi! I believe it had been generally accepted in the WTFDA that your logging of WSBK-38 from OK at 1475 miles was the official UHF-TV DX record. I see that WPXT-51 at 1510 miles definitely tops that! Think of all that you missed because of the wounded pre-amp! Bob sent along a photo of WNEV-7 tropo at 1360 miles, and it is a beaut! Hope we hear from you again, Bob--jfc)

Preferred by those who know.

DX DISTANCE PRINTOUTS...beware of imitations! Look for the original! A customized printout of your exact distance to all U.S. TV stations, most Canadians and a host of others, can be yours for the measly sum of \$7 worth of those funny green pieces of paper! Don't settle for less; ours are the official TV-DX printouts of the 1988 Olympics! (Well, if you believe that, maybe I have a shot at Joe Izusu's job...) Send check or M.O. today!

EASTERN TV-DX

John F. Combs (N4SFS), 1308 Willow Branch #24, Jacksonville FL 32205

JULY 1988

| MAY 1988 | | | MAY 1988 | | | MAY 1988 | | |
|-------------------------------|--------------------------|--------------------------|----------|--|--|----------|--|--|
| 1 Es 1635+ unIDs-2, 3 | 8 Tr 2308 WLTX-19 SC 267 | 11 Es 1152 KIII-3 ? TX T | | | | | | |
| 2 Tr 2355 WRJA-27 SC 260 | 9 Tr 0636 SC 19, 23, 25 | 1205 KJRH-2 OK 896 | | | | | | |
| 3 Tr 0025 Columbia 19, 25 262 | 11 Es 1139 unID-2 (SS) | 12 Es 1017 unID-2 (PBS) | | | | | | |
| 0738 SC 19, 25, 38 | 1143 XHRIO-2 ? TA T | 1045 WKAQ-2 PR 1289 | | | | | | |

MR. COMBS GOES MAD IN THE MOUNTAINS II: The Sequel!

A very relaxing week spent in the north GA mountains also yielded some great DX this year. (This is in stark contrast to last year's trip!) My QTH was at Black Rock Mountain State Park, near Dillard GA, in the northeastern corner of the state. DX is from either of two sites: the actual campsite, about 3300' ASL (using 4-bay UHF and small VHF log), or the summit of Black Rock, about 3640' ASL, using the 5' TV's built-in dipole. All DX over 200 miles is included, except for WJCL-22, WHMC-23, WTAT-24, and WTGS-28, which are seen too frequently to log...

| MAY 1988 | | | MAY 1988 | | | MAY 1988 | | |
|---------------------------|---------------------------|--------------------------------|----------|--|--|----------|--|--|
| 16 Tr 0833 WJPM-33 SC 212 | 18 Tr 0802 WCJB-20 FL 375 | 21 Tr 0845 Florence 13, 15, 33 | | | | | | |
| 0839 WBTW-13 SC 235 | 0805 WUFT-5 ? FL T | 0900-0930 Wkg Florence | | | | | | |
| 0839 WTOG-11 GA 230 | 0833 unID-63 or 64 | & N. Myrtle Beach 2-m | | | | | | |
| 0839 WITV-7 SC 252 | (LPTV?--see below) | repeaters w/5 watts!! | | | | | | |
| 1719 WABW-14 GA 263 | 0849 WTVX-34 FL 565 | 0951 WJKS-17 FL 337 | | | | | | |
| 1845 W67BC GA 135 | 0849 WOFL-35 ? FL T | 0955 WUNJ-39 NC 301 | | | | | | |
| (Augusta LPTV) | (strong zero on WRLK) | 0955 WVGA-44 GA 258 | | | | | | |
| 2016 WJWJ-16 SC 218 | 0849 WFLX-29 ? FL T | 1003 WNFN-47 FL 337 | | | | | | |
| 2219 WGIQ-43 AL 248 | 0850 WIYE-55 FL 430 | 1004 W67BC GA 135 | | | | | | |
| 17 Tr 0400 WNET-47 FL 337 | 0850 WXEL-42 ? FL T | 1007 WVAN-9 GA 216 | | | | | | |
| 0416 WTOG-11 GA 230 | 0902 WAYK-56 ? FL T | 1007 WXGA-8 GA 259 | | | | | | |
| 0700 WVGA-44 GA 258 | (zero CCI on W56AG) | 1008 WJCT-7 FL 336 | | | | | | |
| 0703 WTSB-31 GA 248 | 19 Tr 0524 WBTW-13 SC 235 | 1010 WJXT-4 ? FL T | | | | | | |
| 0705 WALB-10 GA 248 | 0550 WPDE-15 SC 234 | 22 Tr 0238 WCCS-5 SC 252 | | | | | | |
| 1037 WPDE-15 SC 234 | 0557 W05AO SC 35 | 0238 WCBZ-2 SC 252 | | | | | | |
| 1037 WBTW-13 SC 235 | (Pickens WLOS-13) | 0253 WCIV-4 SC 252 | | | | | | |
| 1037 WJPM-33 SC 212 | (Prob. the source of the | 0625 WBTW-13 SC 235 | | | | | | |
| 1210 W13AY GA 25 | almost constant CCI to | 0625 Sav. 3, 9, 11, 22, 28 | | | | | | |
| (Young Harris WSB-2) | WAGA Atlanta...) | 0625 Charleston 2, 4, 5, 7, 24 | | | | | | |
| 18 Tr 0636 WJKS-17 FL 337 | 0629 WJPM-33 SC 212 | 0631 Jax 17, 30, 47 337 | | | | | | |
| 0636 WANS-30 FL 336 | 20 Tr 0525 WPDE-15 SC 234 | 0703 WTVL-12 FL 337 | | | | | | |
| 0636 WNET-47 FL 337 | 0609 WTSB-31 GA 248 | 0708 WTSG-31 GA 248 | | | | | | |
| 0648 WJWJ-16 SC 218 | 0630 WJPM-33 SC 212 | 0723 WCVB-43 SC 269 | | | | | | |
| 0657 WVGA-44 GA 258 | 21 Tr 0544 W07BE GA 25 | 0725 WCVB-20 FL 375 | | | | | | |
| 0704 WJCT-7 FL 336 | (Young Harris WXIA-11) | 0727 WJGA-44 GA 258 | | | | | | |
| 0750 WGSX-51 FL 388 | 0558 WSAV-3 GA 230 | 0800 Left for FL... | | | | | | |
| 0752 W67BC GA 135 | 0843 WGSB-43 SC 269 | | | | | | | |

The unID-63 or 64 (My 5" TV has no detent tuning) had an exercise show with a dark-haired lady, and only ran 2 ads in 30 minutes: one for cheapo jewelry, the other for a weight-loss plan, both with a Tulsa OK address. Kinda neat seeing my own locals on DX!! The TV-DX log for Black Rock now totals 82 stns, 51 UHF, 10 xltrs, none by Es yet.

I also had the opportunity to visit Waterrock Knob again. This peak is in NC, between Waynesville and Cherokee, off the Blue Ridge Parkway. The top is 6292' ASL. I was mistaken last year when I stated that Knoxville and Chattanooga could not be seen from there. That previous bandscan was cut short by rain, but this year clear skies prevailed. The complete TV bandscan for this spot (done between 1100-1230 EDT) follows:

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| WSJK-2 TN 65 | WGTV-8 GA 130 | WTBS-17 GA 135 | WUNF-33 NC 20 | WJZY-46 NC 110 |
| WSB-2 GA 135 | WSOC-9 NC 110 | WCCB-18 NC 135 | WATL-36 GA 135 | WSBN-47 VA 100 |
| WBTW-3 NC 110 | WTVC-9 TN 125 | WKPT-19 TN 85 | WPQC-36 NC 135 | WRET-49 SC 80 |
| WRCB-3 TN 125 | WBIR-10 TN 60 | WLTX-19 SC 160 | WNEH-38 SC 90 | W56AF NC 25 |
| WYFF-4 SC 35 | unID-10 WIS?? | WNHS-21 NC 30 | WETO-39 TN 45 | WUNG-58 NC 135 |
| WCYB-5 (TN) 90 | WJHL-11 TN 85 | WTVX-26 TN 60 | WWTI-41 GA 190 | W59AD NC 40 |
| WAGA-5 GA 135 | WXIA-11 GA 135 | WATG-26(SC)160 | WVTG-42 NC 130 | WDSI-61 TN 125 |
| WATE-6 TN 60 | WRDW-12(SC)160 | W27AB NC 10 | WKCH-43 TN 60 | W62?? NC ? |
| WJBF-6 (SC)160 | WLOS-13 NC 20 | WPBA-30 NC 135 | WTCI-45 TN 125 | W67AQ NC 60 |
| WSPA-7 SC 50 | WGSB-16 SC 55 | WNEG-32 GA ? T | WGNV-46 GA 135 | W67AV NC 135 |
| | | | WVEU-69 GA 135 | |

So, a total of at least 51 signals (49 IDed) can be monitored from this spot under absolutely dead conditions. All the xltrs noted are of WUNF-17 except for W27AB, which repeats WUNF-33, according to the WTFDA Translator List. There are 2 possible UNC-TV xltrs on 62, so I'm not sure which I had, but could definitely separate the two on 67 by moving the dipole around. On next year's trip, I may try to rush up there when things look hot and bring along the 4-bay. I only fear one thing: it takes over an hour to drive there from Black Rock, then 1/2 hour to climb the trail to the top. With my luck, things will have faded out by the time I get there!

BACK IN THE FLATLANDS OF FLORIDA... (comments next page)

| MAY 1988 | | | MAY 1988 | | | MAY 1988 | | |
|---------------------------|----------------------------|---------------------------|----------|--|--|----------|--|--|
| 24 Tr 0045 WMGT-41 GA 201 | 24 Tr 0723 WTVX-34 FL 233 | 29 Tr 1221 KQTV-2 ? MO T | | | | | | |
| 0047 WJHG-7 FL 221 | 27 Es 1100+ unIDs-2, 3 | 1221 unID-3 | | | | | | |
| 0049 WCBZ-2 SC 215 | 1154 KJRH-2 OK 896 | 1300 f/out | | | | | | |
| 0118 Columbia 10, 19, 25 | 1220 KMID-2 ? TX T | 31 Es 1332 WBAY-2 WI 1031 | | | | | | |
| 0123 WMAZ-13 GA 201 | 1300 f/out | 1332 WBBM-2 ? WI T | | | | | | |
| 0124 WRBL-3 GA 228 | 28 Es 1200+ unIDs-2 in/out | 1344 WISC-3 ? IL T | | | | | | |
| 0125 WCCS-5 SC 215 | 29 Tr 0542 WJKA-26 NC 334 | 1617 Check...still 2, 3 | | | | | | |
| 0723 WHMC-23 SC 293 | 0838 SC 23, 25, 27 | 2305 KFDX-3 TX 1013 | | | | | | |
| 0723 WOLO-25 SC 262 | 0838 WUNJ-39 NC 334 | 2307 KRGV-5 ? TX T | | | | | | |
| 0723 WJPM-33 SC 297 | 1221 WJBK-2 MI 842 | 2308 KPRC-2 ? TX T | | | | | | |

Combs (cont.)

There has been a considerable amount of Es lately, but much of it weak and in/out. Add that to my typically madcap schedule, and I haven't made too many positive loggings. I wish someone made a car radio that would cover VHF-TV in addition to AM and FM! I spend so much time in my truck that it would be nice to log Es while driving about. I could get one of those portable TV-sound receivers, but it probably wouldn't be very sensitive and would be vulnerable to ignition noise. Any ideas on this subject would be most welcome!

On the home front, I have dismantled my quad-loops and now DX VHF-TV with the same small all-channel log that I use on trips. Although it doesn't seem to have as much gain on lo-band, it is directional and can also be used to DX hi-band tropo, which I've neglected. My goal is (finances permitting) to move to a small house or mobile home in January, when my lease is up on this apartment. Even getting small antennas 20 or 25 feet in the air would be a decided improvement over my current situation!

Table with columns for date (MAY 1988), call sign, frequency, and location. Includes entries for Jeff Wolf, 1131 University Blvd. W., Apt. 701, Silver Spring MD 20902.

Table with columns for date (MAY 1988), call sign, frequency, and location. Includes entries for Greg Coniglio, 5100 Glenwood Drive, Williamsville NY 14221.

EQUIPMENT BEFORE MAY 15: Same as in April VUD AFTER MAY 15: Emerson ECR127 TV (color), Jerrold 10-element VHF and 4-bay UHF bow-tie (w/CM 0071C amp), both on same mast, with Channel Master rotor. RG-6 coax used on both antennas (VHF @ 25' AG, UHF @ 28' AG).

Note #1: On the first day I put my roof antenna up, a reliable local goes off, resulting in two new catches! What are the odds of that? Also, something kept coming in from the SE that I could not ID. It was likely WNBC or WRC. Note #2: Under WIVB-4--my first e-skip logging on channel 4.

Es is looking active so far with 5 openings in the last 14 days. Hopefully, things will really pick up during the first week of June. I almost always have CCI on locals 2 and 4 from the WSW now; I assume from Detroit. I can usually differentiate between that and E-skip, though. 73s, Greg.

Table with columns for date (APRIL 1988, MAY 1988), call sign, frequency, and location. Includes entries for Matt Sittel, 220 Brookfield Dr., Kingsport TN 37663.

E-skip is back in the form of early season activity, though it seems not as good as last year. The FM on the 11th was good, and that opening brought a new station. I hope everyone has a super E-skip season! 73's, Matt. (See Matt, I was able to work several 2-meter repeaters in your area from the top of Waterrock Knob [see previous page]. I should have asked to use the autopatch and tried to give you a call while I was DXing at 6292' ASL, hi! Maybe next year--fj)

Report your DX today!

Read the Fine Print.



FM NEWS

Bruce F. Elving, Ph.D., Editor 241 Anderson Road Esko MN 55733-9413

Contributions earnestly solicited and/or coveted!

Facilities Changes Granted

Call Letters Assigned [m] AL Enterprise 96.9 WLHO-FM (VLHO) AZ Green Valley 92.1 KFXX (KFXX-FM), rp AZ Kearny 105.1 KCDX [m], "The Wave" AZ Oracle/Phoenix 103.1 KAWV (KHYT)/ CA Colusa 96.5 KKLK (KRCC), Stereo CA Madera 92.1 KHOT-FM (KHOT) CA Quincy 103.1 KNLF CA Redding *89.7 KXFR (KRFR) CA San Diego 94.9 KKYY (KWLT), "Y-95," still rm [oldies r, no nonID CA San Francisco 98.9 KQFY-FM (KHIT)/ CO Fort Collins 107.9 KIMN (KCOLF-FM) CO Loveland 102.5 KTRR (KLOV-FM) FL New Smyrna Beach *89.7 WJLU GA Metter 104.9 WHCG (WQKK); now S? HI Honolulu *89.3 KIPO HI Waimea 99.1 KKGQ-"FM" IL Sterling 94.3 WSSQ (WJVM) KS Salina 104.9 KCVS KY Cave City 106.7 WHHT KY Hyden 92.3 WZQD MA Truro 102.3 WTUR [vertical only MN Austin *91.3 KAVT-"FM" (KAVT-FM; TV now has different calls), r (when it operates) MS University 92.1 WUMS MO Buffalo 99.9 KBFL \$, kr, delete KBFL *90.3, ON AIR AND DX READY on 99.9! MO Versailles 95.1 KLGS NV Carson City *91.3 KNIB, g NH Newport 101.7 WXXK-FM (WCNL-FM) NJ Newton 103.7 WNNJ-FM (back to, from "WJXL-"FM") NJ Stockton (Delaware Township) *89.7 WDOVR NM Bloomfield 104.5 KMYO NM Hatch 101.1 KWQJ NY Port Henry 92.1 WHWB-FM (WKLZ; AM is in Rutland VT) NY Syracuse *90.3 WFNY NC Gastonia 101.9 WCKZ-FM (WCKZ) NC Griffon 99.3 WVVV NC Warrenton 107.3 WVRS OH Fort Shawnee 107.5 WFSO-"FM" OH Mansfield *91.7 WOSV OR La Grande 100.1 KWRL OR Milton-Freewater 97.9 KUDDO [Stereo? PA Central City 101.7 WYSN (WNZE); to go! PA Edinboro 97.9 WMYJ PA Harrisburg 105.9 WPHB-FM PA State College 103.1 WBHV (WXLR) SC Columbia 103.1 WPRH-"FM" SD Lowry *91.9 KQSD-FM TX Amarillo 101.9 KESE (KZZO) TX Canyon 107.1 KHVK (KATP) TX Cuyo 97.7 KNRO-FM TX Houston 94.5 KLDE (KJYY) WA Grandview 100.9 KARY-FM (KGNU; AM is in Prosser WA) [-FM; AM has new calls] WA Walla Walla 97.1 KAFR-"FM" (KAFR-/ VI St. Croix 94.3 WAVI AB Lac la Biche 89.9 CFWE BC Creston *100.3 CBRM BC Pemberton (frequency unknown) VF 2005-FM, a CIRK 97.3 Edmonton relayor ON Sarnia 99.9 CFGX (CJFI) PQ Manouane 95.1 CHMK (CHOX) PQ Oka 101.7 CKCS, "program director was beaten following some controversy over Oka Indian Reservation policies. . . CKCS was NOT heard in St. Eustache, Sunday, May 1, 19 km away." PQ Rouyn-Noranda 99.1 CJMN PQ St-Hyacinthe 106.5 CFEI, \$, b, with "French and English mor/EZ listening music, French DJ." PQ Val d'Or 102.7 CJMV

Stereo, or to be Stereo

AL Andalusia WAAO-FM 104.7
 AL Florence WBHL *91.3
 AL Guntersville WTWV 95.9, "now back in Stereo after a long period in mono"
 AK Fairbanks KINQ 95.9, [rock]
 AZ Birbae KZMK 92.1 (not "Bishop," as in FM Atlas-11, p. 143)
 AZ Glendale GHSB 103.5, still off the air
 AZ Miami KQSS 98.3, k
 AZ Parker KMDX 99.3, m
 AZ Brawley KWST 94.5, k
 CA Cores KBES *89.5, apparently back in \$
 CA Concord KLCZ 102.3, rm
 CA Corcoran KQYZ 104.9
 CA Stockton KSJC *89.5
 CA Taft KLXV 103.9, to be g
 CA Aspen KAJX *91.5
 CO Leadville KRNH-FM 93.5—this must be for real, with KRNH-FM believed to finally be on the air
 CO Pagosa Springs KRDS 106.3 [WV Weston
 CT Fairfield WVFF *88.5 [WSSN 102.3,
 CT Westport WWPT *90.3 [now rm for-
 DE Ocean View WVUV 101.7, rmt mat —
 FL Apalachicola WAPY 100.9
 FL Chiefland WTBB *91.5
 FL Port Charlotte WVJF *91.7
 GA Boston WXTB 106.3
 GA Jessup WLPT *88.3; not "Jessup," and not "WJPT," as in June VUD, Pugh, p. 12
 GA Miami WMCG 104.9
 GA West Point WCMJ 100.9, now k (see Pugh, W, p. 11)
 HI Kailua-Lona KLUA 93.5
 ID Soda Springs KFIS 100.1, rm
 IN Fort Wayne WLAB *88.3
 IN Linton WOTY 93.5, "back in stereo. Must have been a transmitter problem.
 KS Concordia KYCO *88.3
 KY Bowling Green WCVK *90.7
 KY Stanton WSKV 104.9
 LA Natchitoches KNVD *91.7
 ME Blue Hill WERU *89.9
 ME Camden WOSS 102.5, m, "Coast 102.5," Transmitter on Ragged Mountain north of Camden and studios on Main Street in Camden. "I can pick up Coast-102.5 here in Portland about 110 miles away—a good mono signal; stereo is real fuzzy."
 MI Traverse City WNNC *90.9, not "WMNC," FM Atlas-11, p. 140
 MN Ely (new) 92.1; not yet on air
 MN St. Paul WMCN *91.7. John Ebeling—please check on this for me!
 MS Bay Springs WIZK-FM 93.5, r, "ZK Rock"
 MS Marion WQIC-FM 103.1
 MO Branson KRZK 106.3
 MO Houston KUNO 99.3
 MO Moberly KZZT 105.5
 NH Hanover WTSL-FM 92.3
 NM Portales KKHJ 95.3
 NY Gouverneur WIGS-FM 95.3
 NY Tupper Lake WLRG 102.3
 OH Millersburg WKRM 105.3
 OK Enid KBVV *91.1
 PA Grove City WSAJ-FM *91.1, cj
 TX Bowie KRJT 100.7, not 1530 m, as shown in FM Atlas-11, p. 159 (is 140 m, 1530 h,v)
 TX Brownwood KBUB *90.3
 KPSM 99.3
 TX Galveston KRTX 104.9
 TX Kingsville KTAI *91.1
 TX Lamesa KUFO 100.3
 TX Pearsall KVVG-FM 95.3
 TX Pittsburg KXAL 103.1
 TX Pleasanton KBOP-FM 98.3
 TX Tye KTLK 99.7
 TX Wheeler KYCD *90.5
 TX Yoakum KYOC 102.3, k, not "97.7," as shown on p. 62 FM Atlas-11
 UT Blending KSMH 92.1
 UT Ogden KWCR *88.1

KOMJ Now an "Omaha" Station

UT Tremontton KKVU-FM 104.9, "K-View," ID with Garland (not "Gardner," as shown in FM Atlas-11, p. 168)
 WA Auburn KGRG *91.3
 WA Ephrata KGDN 95.9
 WI Sturgeon Bay WDCW 97.7
 WY Wheatland KYCN-FM 101.7
 PR Bayamon WXXY 100.7
 VI Charlotte Amalie WVGW 107.1
 NB Fredericton CHSR *97.5
 NT Hay River CJCD-1 *100.1, 53 m (300 ft)

Not in Stereo, Remove \$ Listing
 TA Nuevo Laredo XHNC 99.3, "is mono"

Format Changes

Formats are the same as in the "FM Atlas"
 AZ Flagstaff KMGW 93.9 m
 AZ Phoenix KOY-FM 95.5 rs, still "Y-95."
 KKL 98.7 mr
 KAMJ 101.5 m
 AZ Scottsdale KSLX 100.7 rp, no nonID
 AZ Tucson KWFM 92.9 m
 AR Hoxie KHGX 100.5 k. AR Humnoke 101.7
 KZIX out of sequence, FM Atlas-11, p. 100.
 AR Osceola-Memphis TN KMPZ 98.1 m,
 "Power-98." FCClassifies 98.1 as C (from C1)
 CA Coachella KCHV 93.5 r, still monophonic
 CA Fort Bragg KSAV 97.7 m, "Lite 97-7,
 K-Say," not yet on
 CA McFarland KXEM-FM 102.9, to be Spanish,
 1. AM simulcast at least for a while
 CO Durango KDUR *91.9 pc, has \$, but "off the air until September. Contractors are going through the building, removing asbestos and remodeling. Meanwhile, KSUT Ignacio CO gets into Durango through their translator."
 FL Cross City WDFL-FM 106.3 k[country]
 FL Englewood WSEB *91.3 g[ospel]
 IL Casey WCBH 104.3 k [variety"
 IL Chicago WKDQ 101.1 m, "with more/
 IL Kewanee WJRE 92.1 k
 IN Knox WKVI-FM 99.3 k, parallel to AM
 IN Notre Dame WSDN *88.9 cp, "classical days, progressive rock evenings"
 IN Plymouth WNEZ 94.3 k
 IN Princeton WRAY-FM 98.1 m [nites
 IN Rensselaer WLQI 97.7 m, with p Friday/
 IA Atlantic KOMJ 103.7, music of the '60s and '70s, ID with Omaha NE, saying "Atlantic" only once an hour and that is immediately followed by Omaha, in the weather, between 4:5 and 5:5. Otherwise, it's usually "Omaha's Magic-103.7" (not strict; calls used often). It was played a tape of their computerized voice count-down, starting with 10,000 and going down to zero, then the sign-on as KOMJ about two days later around 7:25 a. m.
 Hourly IDs during the computer count-down were simply: "KJAN-FM Atlantic-Omaha."
 IA Storm Lake KAYL-FM 101.5 m, "Many people are disgusted with their changing formats, and are turning to us, the area's only easy-listening station."
 KS Baldwin KNUB *92.5 r
 KY Hardinsburg WHIC-FM 94.3 k
 KY Hartford WLLS-FM 106.3 rp, "just about as hard as WGBF-FM"
 KY Henderson WGBF-FM 103.1 pr
 KY Maysville WFTM-FM 95.9 k
 KY Smiths Grove WBLG 107.1 m, "adult contemporary"
 ME Scarborough WPKM 106.3 all c, having dropped all religious programming. "However, I'm not sold on a lot of their programming. Much of time selections played are parts of longer items."
 MI Atlanta WAIR 92.5 m
 MI Cadillac WDLW *91.3 g
 MN St. James KXAX 104.9 r
 MN Thief River Falls KSNR 100.3 (having moved from 99.3 r, no nonID
 MS Ackerman WPCA 107.9 all g, ID with French Canon, where its studio is

MS Brookhaven WBKN 92.1 k
 MS Heidelberg WEEZ 99.3 s (not mr), \$
 MS Magee WJMJ 92.5 m (light rock), ID with Jackson, "Magic-107" (strict)
 MS Philadelphia WSSL 102.3 r (classic rock)
 MS Sturtevant WBSN 92.7 k
 MT Plentywood KATC-FM 100.1 k
 NE Aurora KMTY 97.3 (having moved from 103.1) mr (similar to KEZH 101.5 Hastings), with Kansas City Royals baseball; ID with Grand Island-Hastings, no nonID, still IU, 67
 NE Broken Bow KBBN 98.3 r, "timeless rock and classic hits," and "FM-98" nonID
 NE Omaha KEFM 96.1 r[ock]
 NE Ord KNLV-FM 103.9 m
 NJ Cape May WSJL 102.3 g, still mono
 NJ Cherry Hill WBEK *88.1 r
 NM Albuquerque KMGA 99.5 m, "Magic 99-FM" [que's My-107"
 NM Armijo KMYI 107.1 m, "Albuquerque-
 NM Los Alamos KBBR 98.5 r (not ri); ID with Albuquerque-Santa Fe, "K-Bear"
 NM Ruidoso KBVY 93.5 k (from r)
 NM Santa Fe KKNY 95.5 k, with its 105.5 Albuquerque translator heard in mono
 NC Lexington WWGL 94.1 g, "Like a sinner who has found the way, the station has dropped its music about heartaches and cheating, shed its old call letters and re-emerged on April 4 as WWGL: 'We Witness God's Love.'" Ratings under the old format were a .6, compared to other country stations in the market: WTQR 14.8, WBGJ 6.9, WPCM .7.
 NC Windsor WDRP 98.9 k
 ND Grand Forks KJKJ 107.5 r, "hits/oldies," still "KA-108" (strict)
 ND Mandan KNDR 104.7 g, not gr
 OH Xenia WDJK 95.3 r, "DJK-95" (strict). IDs with multiple cities and varies from Springfield, Beaver Creek, Fairborn
 OK Lawton KQLI 94.3 mr [with AM
 OR Lakeview KQIK-FM 93.5 k, simulcast/
 RI Woonsocket WXXK 106.3 sr, "Dance-CHR."
 NonID: "Kix-106" (strict)
 SC Beaufort WAGP *88.7 g
 SD Bridgeton KOLY-FM 99.5 m, "music you like when you like it"
 SD Spearfish KSLT 107.3 gr, no stereo on air
 Fort Pierre translator, 102.3. I wonder if KSLT itself is without \$ now
 TX Alamo KJAV 104.9, Spanish (S)
 TX Jasper KJAS 100.9 rk
 TX Lorenzo KVOD 98.1 b, "easy listening"
 TX Lubbock KTEZ 101.1 mr, "soft AC," with "K-Lite" nonID
 TX Mineola KMDD-FM 96.7 k, still mono
 TX Nacogdoches KSAU *90.1 j[azz]
 TX Roma KBMI 97.7 Spanish (S). "Hope you can improve the TX map next time."
 TX San Saba KBAI-FM 96.7 r[ock]
 PR Cabo Rojo WMO 102.3 r, "Spanish hits"
 AB Edmonton CKXM 100.3 rj, with "new age," 6 p. m. to 12 a. m.
 PQ Longueuil CIEI 98.5 authorized to originate an all-night show (12-6 a. m.), to be carried by a network of Quebec stations. "The program will be mainly music, plus news reports."

NonIDs, Not Just Slogans

AL Dothan WRWA *88.7 Waj-FM
 AZ Apache Junction KVVAF-FM 107.1 Viva
 AZ Coolidge KQEZ 103.9 no nonID
 AZ Glendale-Phoenix KKKR 92.3 no nonID, having stopped playing with "Fire"
 AZ Nogales KAYN 98.3 K-98
 AZ Phoenix KESZ 99.9 EZ Rockin' 99.9, rm
 AZ Tempe KUPD 97.9 dropped its nonID
 AZ Yuma KJOK 93.1 K-Jock
 CA Brawley KSIG 96.1 G-96 (not "C-96")
 CA Carnelian Bay KHTZ 103.7 K-Hits 104
 CA Palm Springs KODES-FM 104.7 K-Des
 CA Sacramento KZAP 98.5 K-Zap
 CA San Diego KXYX 96.5 dropped its nonID
 CA San Francisco KMEL 106.1 no nonID

CA Tahoe City KRZQ 96.5 Q-96
 CO Durango KJUX 101.3 Kix-FM
 CO Grand Junction KVEE-FM 92.3 VFM
 CO Montrose KSTR-FM 96.1 K-Star FM
 CO Snowmass Village KSNQ-FM 103.9 K-Snow
 CO Vail KVMT 104.7, dropped its nonID
 FL Clearwater WNL7 95.7 Lite-Rock
 FL DeLand-Orlando WOCL 105.9 Cool 105.9
 GA Fort Valley WQZB 106.3 Q-106 (not "Z-106")
 GA Savannah WEAS-FM 93.1 Ace-93
 WZAT 102.1 Z-102
 HI Honolulu KMAI 93.9 I-94
 HI Kealahou KOAS 92.1 Coast
 HI Idaho Falls KFTZ 103.2 Z-103
 ID Rexburg KADQ 94.3 94-OFM
 KKQT 98.3 K-98 [WV Clarkburg
 IL Joliet WLLI 96.7 R-ock [WVHF 92.7
 IN Greenfield WZPL 99.5 ZPL Stereo-93
 IN Muncie WDKZ 104.9 KZ-105
 KY Louisville WDJX 99.7 DJX
 KY Winchester Lexington WFLM 100.1 Hit —
 Radio 100-FM (strict) [WV Grafton
 MD Glen Burnie WGH 95.9 Hot 95.9 WTBZ-FM
 MI Muskegon WSNX 104.5 Sunny [95.9 Z-96
 MS Forest WGST-FM 92.5 Country-92
 NE Blair KBWH 106.3 K-106 (strict)
 NE Columbus KLIR 101.1 Clear
 NV Ely KBXS 92.7 X-93 [strict"
 NJ Millville WMBV-FM 97.3 Boss-97, "very/
 NJ Wildwood WZXL 100.7 100-ZXL
 NM Santa Fe Albuquerque KIVA-FM 105.1 Power-105 [with Utica
 NY Rome WFRG-FM 96.1 96-Frog, ID/
 ND Valley City KOVC-FM 100.9 Lite Rock 101 (strict)
 OH Columbus WNCI 97.9 has dropped nonID
 OK Altus KRKZ 93.5 K-Rocks
 PA Altoona WPRR 100.1 has dropped nonID
 PA Charleroi WESA-FM 98.3 Class 98 FM
 PA Clearfield WQYX 93.5 Quicks-93
 PA Ebensburg WYQ 99.1 dropped its nonID
 PA Greensburg WSSZ 107.1 Z-107
 PA Harrisburg WNNK 104.1 Wink-104 (not "Wink-106")
 PA Johnstown WGLU 92.1 Power-92 (no longer stuck with "Glue-92")
 PA Pittsburgh WHTX 96.1 has dropped nonID
 PA Sunbury WQXX 94.1 94-KX
 PA University Park WQWK 96.7 97-Quick (not "96-Quick") ["Hit FM-100"
 SD Rapid City KGGG 100.3 Hit-100 (not/
 SD Winner KWYR-FM 93.7 Magic-93 (strict/
 from "Magic-94")
 TN Minor Hill WLLX 92.1 WLX
 TN Oak Ridge-Knoxville WOKI 100.3, 100.0, dual-city ID now given on the hour, instead of five minutes previously, as before
 TX Amarillo KLSF 96.9 KLS
 TX Odessa KKKK 99.1 FM 99-K
 UT Salt Lake City KRSP-FM 103.5 Rock-103
 WA Bremerton KNUA 106.9 has dropped nonID
 WI La Crosse WLXR-FM 104.9 Hit 105
 WY Buffalo KLG 92.7 K-Light
 WY Greyhound KZMQ 100.3 Q-100

Multi-City IDs in Use

[Selected. For more, see FMedia!]
 IL Aurora WYSY 107.9 no longer IDing with Chicago, but with multiple western suburb places, such as Addison, Lombard, Downers Grove, Palatine, Hoffman Estates and Wheaton IL Kankakee WBUS 99.9 with Joliet, and "the southern suburbs" [of Chicago]
 IN Goshen WZ0W 97.7 with Elkhart and "Concord." However, both ConCORDS in IN and the Concord in MI are too far away for WZ0W to claim in its coverage. Station had been off the air for a week and returned with r, as before, except for playing "oldies"
 KY Owensboro WBR KR 92.5 with Evansville (IN) and Beaver Dam KY
 NM Wadeno KKWS 105.9 adds Brainerd-Park Rapids; still "K-106" (strict)
 NM Albuquerque KHFM 96.3 with Santa Fe

NM Los Alamos KBOM 106.7 with Santa Fe and Albuquerque
 NM Rio Rancho KZIA-FM 101.7 with Albuquerque, concealing Rio Rancho in its ID.
 NonID: "Talkradio FM-102," and "still mono. Received this better than their 95.9 translator in Albuquerque."
 NM Santa Fe KLSK 104.1 with Albuquerque
 ND Bismarck KYYY 92.9 with Mandan, retains TX, 67 [adds Lock Haven
 PA Jersey Shore-Williamsport WYRS 97.7

On Air (Selected)

MI Pittsford WPCJ *91.1 g, mono

Off Air, or Not Yet On

IL Pana WKXX 100.9
 IL Park Forest WRHS *88.1, "still silent"
 IL Pantou WLMN 96.1
 IN Kentland WPNI 101.7
 IN Terre Haute WFFF *91.3
 IN Vincennes WZDM 92.1
 MD Baltimore WBQY *96.7
 MD Salisbury WICO-FM 97.5 (still on 94.3)
 MS Jackson WWCJ *89.3, had been listed as \$, g
 NM Los Lunas KBBU 102.3 (moving to 102.5)
 NY Webster WFRW *88.1
 OR Riddle K292CF 106.3, listed by FCC as licensed
 K280BH 103.9, also listed as licensed
 OR Tri City K224VA 92.7, listed by FCC as a c-p to carry KGN 92.3 Portland
 K252BB 98.3, listed as c-p to carry KUGN-FM 97.9 (not "99.7," as shown in FM Atlas, p. 133)
 SD Pierre K249AO 97.7, listed as c-p
 K276DH 103.1, listed as c-p
 WV Vienna WBNN 100.1

Deletions

AZ Holbrook KBBH 92.1, "application denied to replace expired permit. . . call letters are hereby forfeited and cancelled"
 AR North Little Rock WLRP *91.5 Family Stations, Inc. "CP and call letters hereby forfeited"
 IN Gaston WDHS *90.9, "I happened to see the band director from Was-Del High School, and asked him why WDHS hasn't been on the air. He said the station no longer existed. All the equipment is gone and a guidance counselor uses the space. The school wants to sell the transmitter. A pirate, perhaps?"
 MS Mississippi State WMSB *96.7
 NH Gorham WMIH 107.1 "application denied for extension of time; call letters are hereby forfeited" [KMYI 107.1 Armijo]
 NM Albuquerque K296CO 107.1 (because of/ND Mandan K221CA 92.1
 ND Rugby KZJJ-FM 95.3, "call letters forfeited and cancelled" (and cancelled)
 OR Eugene KPAA *88.1, "c-p is hereby forfeited/
 OR Rogue K261BF *100.1 (replaced by K201AI *88.1, see above, "New")
 WA Kennewick KSVL *91.7, "cp is hereby forfeited and cancelled"

See Also June VUD For

FL Bradenton WJIS *88.1 g, not rg, Strobel, p. 31 [io, p. 12
 FL Fort Lauderdale WJQY 106.7 m, Conig-
 IL Springfield WNSN 98.7 Class FM nonID,
 Hood, p. 27
 MA Brookline-Boston WBOS 92.9 Country
 Favorites-93 nonID, Hood, p. 29
 MS Hartsville WBHY-FM 104.5 (not "104.9"),
 Pugh, p. 11 [g, Coniglio, p. 12
 NC Black Mountain WMIT 106.9 now all/
 NC Jacksonville WRCM 98.7 multi-city ID with
 Wilkinson-Morehead City, and facilities for
 98.7 are correctly listed in FM Atlas-11,
 Coniglio, p. 12 [Coniglio, p. 12
 NC Wilson WRDU 106.1 r./ [tin, p. 13
 OK Marlow KFBI 92.1 Foxy-92 nonID, Bun-
 NC Columbia WRSF 105.7, not "WSRF," p. 169
 NC Durham WXDU *88.7 listed as 88.9, p. 114
 NC High Point WHPE 95.5, not "WHKPE," p. 150 [146g, 98500 (h,v)
 NC New Bern WTEB *89.3 not on p. 137, is/
 NC Sanford (misspelled) WDDC *90.5, p. 140
 OH Cleveland 98.5 WNCX, not "WGLC," p. 41
 99.5 WGAR, not "WNCX," p. 41
 OH Edgewood 102.5 move 25 m figure to proper column, p. 115 [25 km
 OH Marietta WMRT *88.3 not on p. 115, is c./
 OH Sylvania (misspelled) WWWW 105.5, p. 115
 OK Enid *102.3 KNVD, not "KNID," p. 60
 OK Idabel (not "Isabel") KWGG 96.7, p. 152
 OK Okawaso (misspelled) KVLT 106.1, p. 170
 OR Florence KLXC 104.7 listed as OK, p. 167
 OR Millican *91.9 KOAAT, delete listing, p. 78
 OR Sweet Home 105.5 KNLR, not on p. 78 map
 OR Warm Springs WWSN *91.9 \$ symbol missing, p. 142
 PA Pittsburgh WSHH 99.7 (not 93.7), p. 117
 RI Providence WWLI 105.1, not PA, p. 168
 SC Orangeburg (misspelled) WORG 103.9, p. 166
 TN Bolivar (misspelled) WQKZ 96.7, p. 157
 TN Greeneville WMBWt is *103.1, not 104.9, p. 37
 VA Blacksburg WVUT *90.7 listed as VT, p. 140
 VA Blackstone WBBC-FM 93.5 remove \$, p. 120
 WA Aberdeen (misspelled) *91.1, p. 141
 WA Seattle KCIU listed both on p. 90.3 and *90.5; delete its listing on 90.5, p. 140
 WV Buckhannon WBOT 93.5 missing from p. 146; ID with Weston, is \$, 67 m, 3000 (h,v)
 WI Holmen (misspelled) WKBF-FM 105.5, p. 169 [143 m, 12000 (h,v)
 WI Lancaster WJTY *88.1 not on p. 135, is/
 WY Sheridan 104.9 is KLG1T, not "KLG1M," p. 83 [per columns, p. 124
 BC Vanderhoof CIBC-1 move 3015 to pro-
 NS Northeast Margaree CBHF *93.9, 96 should be listed as a separate community, not Margaree, N.E., with dot southeast of Margaree.
 SK Prince George CKMM 99.1 missing from p. 156. Is "99-FM," \$, 185, 100000 (h,v)
 JA Gudajalajara XEJB-FM is *96.3, not 96.5, p. 127.
 Also, page 7, "FMedia! Newsletter Launched," it "should start on January, 1987, not 1986."
 "Have to say this edition more mistake-filled."

PA Erie WXXC 99.9 m, Coniglio, p. 33
 TN Johnson City WQUT 101.5 rp, Coniglio, p. 12 [Coniglio, p. 12
 VA Danville WAKG 103.3 k (from b./
 VA Suffolk 106.9 calls are now WSKX, not WTID, Coniglio, p. 12
 FM Mistakes, FM Atlas-11 and VUD, selected only
 See FMedia! for more. Much of this information was inadvertently erased after printing in FMedia!
 NC Durham WXDU *88.7 listed as 88.9, p. 114
 NC High Point WHPE 95.5, not "WHKPE," p. 150 [146g, 98500 (h,v)
 NC New Bern WTEB *89.3 not on p. 137, is/
 NC Sanford (misspelled) WDDC *90.5, p. 140
 OH Cleveland 98.5 WNCX, not "WGLC," p. 41
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 OK Okawaso (misspelled) KVLT 106.1, p. 170
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 PA Pittsburgh WSHH 99.7 (not 93.7), p. 117
 RI Providence WWLI 105.1, not PA, p. 168
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 WV Buckhannon WBOT 93.5 missing from p. 146; ID with Weston, is \$, 67 m, 3000 (h,v)
 WI Holmen (misspelled) WKBF-FM 105.5, p. 169 [143 m, 12000 (h,v)
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 AM Happenings Most Likely Caused by FM
 AZ Tucson KJMM 580 "went dark at midnight Saturday, April 30. KJMM lost its lease on the studio/transmitter site. . . [For more, see FMedia!]
 SCServices, 57, 67 and 92 kHz
 GA Atlanta WAPW 99.7 tX, 67 (retains tZ, 92)
 IA Le Mars KZLL 99.5 R, 92 (M, 67; both Muzak services)
 MA Boston WJIB 96.9 tM, 67, same as on WHJY 94.1 Providence RI [tX, X, 67
 MN Mankato KEE 29.9 10 92 kHz X; only/
 MN Minneapolis KBEM *88.5 tX, 67
 MS Clinton WHJT 93.5 tR, 67
 MS Vicksburg WCKO 96.7 no "SCA (had tX), rp (from K) on main channel, "98-Rock"
 WSTZ 106.7 tX, 67 [only, 67 kHz
 [For more, see FMedia!]

Petitions for Rulemakings Filed
 CA Mount Shasta 102.3C1 for 95.3A, KEDY
 CA Rancho California 92.9A, by Miller & Fields,
 attorneys, for Jones and Associates
 CA Sun City 92.9A, by G. Dale Cowle
 CA Temecula 92.9A, Jim James
 GA Martinez 107.7C2 for 94.3A, WMTZ
 GA Warrenton 94.3A, with Martinez
 NC Harkers Island 100.3C1, Roy R. Grant, Jr.
 NC Pine Knoll Shores 100.3A, Hope Communi-
 cations

FM Rulemakings Proposed
 First date below (if given) is deadline for filing
 comments at FCC; second date is for replies.
 Stations affected, if any, are listed before the
 dates. Selected only, see FMedia! for more
 details.

AL Eufaula 97.9A, Reynolds-Strickland, trans-
 mitter to be 6.2 km north because of WJAD
 97.3 Bainbridge GA, as well as a proposal to
 add 97.7A to Arilton AL, June 24, July 11
 AL Jackson 94.5A for 104.9A, WHOD-FM (see
 Moss Point MS) [June 27, July 12]
 CA Coalinga 100.1B1 for 100.1A, KNCSG/
 IA Onawa 102.3C1 for A, KOOD, July 7-22
 MS Moss Point 104.9C2 for A, WKKY (see
 Jackson AL), June 24, July 11
 MS Philadelphia 104.1A, Quail Communica-
 tions, July 1, 18
 NC Highlands 104.5A, June 27, July 12
 NC Hertford 104.9C2 for A, WELQ, July 1, 18
 OR Harbeck-Fruittale 98.3A, July 7, 22
 SD Vermillion 93.9A for 102.3A, with Onawa IA
 TN Lawrenceburg 97.5A, Roger W. Wright, to be
 5.4 km SW to avoid a short-spacing with
 WSIX-FM 97.9 Nashville TN, June 20, July 5
 TX Crockett 92.7C2 for A, KIVY-FM, July 7, 22
 VT Brandon 101.9A, James G. Kirkpatrick, June
 20, July 5; Canadian concurrence must be
 obtained
 WA Ellensburg 95.3C2 for 95.3A, KXLE-FM;
 also 103.1C2 for A, KUBE, June 24, July 11
 WV Montgomery 93.3A, June 27, July 12
 WI Prairie du Chien 94.3C2 for A, WPRE-FM,
 June 27, July 12
 WI Waunakee (Madison) 105.1A, site must be 6
 km NE to avoid short spacings to WNFM
 104.9 Reedsburg and a proposal for 105.5A
 at Verona (Madison) WI, WIBU, Inc., June
 20, July 5

FM Rulemakings, Finalized
 Dates are when FCC filing windows are open.
 Selected only. For more, see FMedia!

AR Booneville 104.7C2 for 92.1A, KBSS
 AR Fairfield 106.1C2 for 106.3A, KFFB
 AR Hot Springs 105.9C1 for 106.3A, KLZ
 AR Monticello 99.9A, June 21-July 21
 FL Fort Myers 95.3C1 for A, WSOR
 GA Augusta 105.7C for C1, WZNY
 HI Kekaha 103.3A, June 21-July 21
 ID Coeur d'Alene 103.1C2 for A, KCDA
 ID McCall 98.3A, June 24-July 24
 IN Bremen 96.9A, with site to be 9 km east,
 avoiding short-spacing to WCOE 96.7 La
 Porte, June 25-July 25
 IN Brownsburg 101.9A, June 24-July 24
 IN Ellettsville 105.1A, site must be 6.3 km west to
 negate a short-spacing with WWWW 104.9A
 Columbus IN, June 25-July 25
 IN Wabash 105.9A, June 24-July 24
 IA Atlantic 103.7C for C1, KOMJ. Very strong in
 Omaha now; will be even stronger
 NM Angel Fire, a resort community about 26
 miles east of Taos, 99.1C2, June 21-July 21
 NY Copenhagen 106.7A, site to be 6 km south to
 avoid a short-spacing to unapplied-for
 106.5A Brockville ON, June 21-July 21
 NY Henderson 100.7A, June 20-July 20
 NY Old Forge 99.7A, with site to be 9 km SW to
 avoid short-spacing with WGF 99.9C Platts-
 burgh, June 14-July 14
 OK Roland 92.3A, site restriction 5% km north,

June 27-July 27
 SC Spartanburg 102.9A, July 5-Aug. 4
 SC Surfside Beach WYAK-FM 103.1C2 for A
 TN Etowah 103.1C2 for A, WVKS
 TN Jamestown 105.1A for 103.1A, WCLC-FM,
 with Etowah
 TX Brenham 106.1C2 for 106.3A, KWHI
 TX Round Rock 105.9C2, 17 km west to protect
 Brenham, June 14-July 14
 TX Slaton 92.7C1 for A, KJAK, for 92.9A
 TX Temple 104.3C2 for 104.9A, KPLE
 TX Wichita Falls 106.3C2 for A, KTLT

Readers' Reports and FM News

Walter Patton was good enough to send
 along a map showing where the city of Magaree
 is, as indicated above under "FM Mistakes." "In
 your March column you challenged my assertion
 that Magaree and North East Magaree, Nova
 Scotia are really separate communities. . . If
 names used in the Atlas or your column differ
 from those used by the CRTCC then I'm liable to
 cause you to have a double entry in your
 records. . . Trying not to appear too fatuous."

Mike Kohl both called and wrote with info
 on products to help prevent computer disasters
 such as I had recently. "I just had some
 experience with the M Street Journal that you
 might wish to be aware of. I ordered a copy of
 their annual AM/FM guide back in January, for
 publishing in February. It seems they are having
 fun with computers, too. Redoing all of their
 files at about 1000 entries a week, it will be
 another 6 to 8 weeks before the publication hits
 the printers. Not what I would consider
 organized, but at least I got an honest explana-
 tion with a telephone call." [M Street Journal,
 if you want to find out prices for their
 directory, is at Box 3568, Alexandria VA
 22302, Robert Unmacht, editor. I am currently
 typing a mailing to all FM stations, using
 Broadcasting Yearbook, so if you work at an
 FM, watch for it to come, % your general
 manager.] Mike Kohl continues: "After living
 in southern California for a year, I am still not
 used to the great numbers of FM stations
 available. DXing is a pleasure, because paths to
 San Diego and southward open up just about
 every other day. We get better regular TV and
 FM reception [in Santa Barbara] from San
 Diego and Tijuana than most people in the Los
 Angeles area, because the signals just shoot
 across the water without any obstruction. I
 don't have any FM news for you; you are
 always a step or two ahead of me."

John Adams: "Some comments on the new
 FM Atlas. I'd still like to see networks listed,
 and formats listed in the by-frequency section,
 but I don't suppose anything I say will make
 you change your mind about that. Also I would
 like to see a listing of stations by call letters
 (you can't tell me to get Vane Jones Log this
 time; it's not being published any more)."

Greg Coniglio sent word that WBSU Brock-
 port NY is still on 88.9, but it does have a c-p
 for *89.1, as my FM Atlas shows it. Watch for
 WBSU moving, or call them and ask when the
 move will take place. He's heard "Kingdom 92"
 on KNMG *91.9 Emporia KS, and I wonder if
 KNMG is in Stereo or not. "I like the new FM
 Atlas, especially the new translator list. I don't
 like the metric, but it's your book! One
 suggestion for the next Atlas: Change the Texas
 map. It strikes me as being very confusing!"

I responded to an ad in May's VUD and
 bought the Pioneer tuner Mel Murray was
 selling, and it works very well. I'd say identical
 to my Magnum/Dynalab FT-101, and it has AM
 as well! However, I prefer the Magnum because
 the stereo indicator works with very weak
 signals, telling me of the existence of stereo,
 even though with poor (or no) stereo separation
 when the signals are weak. Mel writes: "I just
 got the new Harman Kardon Citation 23. While
 the adjacent channel selectivity is great—40 dB

plus—there is a price to pay and that is loss of
 sensitivity—so much that most signals will drop
 from stereo to mono over which the user has no
 control. Analog tuner design still makes sense
 to me! Have a great DX summer."

"I have heard the WIBI translators W288AW
 105.5 Altamonte and W211AD 90.1 Granite City
 IL," says Rich Eddie. "Both are poor but I have
 no trouble getting WIBI 91.1 Carlinville IL
 DaSoto MO 100.1 is still off. KNXS 96.7
 Steelville MO is on, but I don't get them real
 good. . . I also wish you would use miles in the
 FM Atlas." Says Ralph Strobel, "The Atlas is
 nice, but the 10th edition is better. I will
 always find the metric system confusing. I find
 other DXers oppose the metric system, too. Did
 you have no other choice than to cut up the
 states of AZ, KY, TN, MS, NC, VA, NY, ME? I
 X is hard to follow, too. Quebec is the worst
 mess of all. Perhaps you should publish a larger
 book next time to overcome the map crowding
 problem. Why the same orange cover as the
 10th ed.? [Printer made a mistake, and deducted
 10% off the price of the books for that—b.e.] I
 still hear WIOK Falmouth KY on 95.3. Why
 does the ed. band still have 10-watt stations?
 Why can't the 10-watters increase in power?
 Why the wait on 90.5 here in Muncie? They've
 been ready to increase power since 1982. Why
 so many 10-watters in the ed. band in the
 Detroit area? WEDM *91.1 Indy still 10 watts—
 they've always claimed 34 watts." [Ralph,
 WEDM has a c-p to increase to 100 watts, so
 that is how I list them. You might call them
 when in Indy to try to find out why they're
 stalling on the power increase. Detroit probably
 has most of its 10-watt stations jammed into
 frequencies where higher power is not possible.
 The FCC did not make illegal 10-watt operation
 88-92, but highly discouraged that they stay
 there without increasing. I am not sure of the
 90.5 situation there in Muncie. Perhaps you
 could make some calls and let all of us
 know—b.e.] "Frank Merrill happened to be
 going through Muncie and stopped here. I
 played my tape of WDIZ 100.3 Orlando FL. He
 said "ooooohhh, that is trop, all right! I finally
 logged my 1500th FM!" I won't print that, for
 you should be reading about it in one of the
 FM DX columns. WSGS 101.1 Hazard KY still
 k mono. WICR 88.7 Indianapolis always turns
 their \$ light off during talk programs. Most
 stations do not follow that practice. . . WZRO
 106.3 Columbia City IN had been off, but soon
 on again. WZRO seems to have reduced power—
 signal not nearly as strong here. They were a
 strong Class A here."

Nick Lombardi sent an article on WABE
 *90.1 and how listeners who are angry at the
 station for cancelling folk and jazz shows and
 "leaving an almost exclusively classical music
 format." They are concerned, too, about a poor
 signal in the Atlanta area where many live,
 when the station moved its antenna atop Stone
 Mountain at a cost of \$100,000—money donated
 by listeners. The station can now be clearly
 heard in the suburbs and most of the state, but
 for undiagnosed reasons, not in the city in
 which it is licensed. Plans are to relocate the
 station's transmitter.

Wendell Ford: "In the local area, WFAJ
 89.5 Michigan City IN is not on yet and shows
 no sign of construction, also not on yet is 102.3
 WLPZ New Carlisle. My boss at WEFM 95.9
 Michigan City IN says he's met you before and
 that you were at WEFM when they were
 WMCB. He also owns WJFM in Mount Zion IL,
 and has applied for a station in Polo IL in the
 "107" area. . . I saw an article in the South
 Bend Tribune about an application for an FM 3
 kW station in Buchanan MI, that will serve
 from Kalamazoo MI to Michigan City, IN."

Pat Dyer: "The FM Atlas finally arrived on
 Apr. 29. I wonder why only 12.5 cents postage
 on it when I'd added 55 cents for it in the

order?" [The reason is that we use the 12.5 cents stamps with our
 bulk permit, paying the difference, up to 45 cents for one book
 or 55 cents two or more books. Each individual piece does not
 have to have the extra postage marked on it. This saves time and
 money when we have 200 pieces to mail. When there are fewer, as
 now, we are sending each out "book rate" at 90 cents, so we are
 not making a profit at the .55 we are asking for shipping.
 Similarly, our FMedia! newsletter goes out using 21.1 cents
 stamps, but the rate for ZIP+4 coding is 24.1 cents. Since no 24.1
 cent stamp has been invented, we must pay the postal people an
 added 3 cents per item we send that way, but the individual
 pieces are not so marked.]

Pat goes on: "At a semi-annual used book sale at Brandeis here
 in April a mint copy of the third edition FM Atlas turned up for
 \$1!" He sent items on the still-dormant KSTX *89.1 San
 Antonio, merging with KPAC *90.9. "As I told you during the
 Apr. 24 phone chat, it seems that Fredericksburg 101.1 (KFAN)
 has adopted us. So there goes another channel or three for
 DXing." KFAN's new coordinates are 29-50-29; 98-49-30. The
 new coordinates for KCYY 100.3 are very similar: 29-31-33;
 98-43-21. Pat's noted KCYY being "a good bit stronger and is
 creating some intermod spurs that I hadn't noticed before."

Received from Tab Books, Inc. is a copy of Peter Hunn's new
 book, *Starting and Operating Your Own FM Radio Station* for
 review. I may review it in FMedia! and/or in some other
 publication, and will let you know where the review appears.
 Anyway, the book is priced at \$12.95 from Tab Books, Blue
 Ridge Summit PA 17294-0850. The book is 154 pages, and is
 well-illustrated, including some historical photos.

Reijo Siivonen of Rauma FINLAND sent some Finnish
 newspapers and magazines, including FM schedules. "I wrote to
 WFDFA headquarters in Buffalo, too, and I have a sample copy
 of VHF-UHF Digest in addition to your own FMedia! newsletter."

Robert Baker sent a New York Times article about the crusty
 Simon Geller, about to quit broadcasting, take his \$1 million and



run to NY City. He's had it with Gloucester MA, classical music
 and WVCA 104.9, making the switchover to WBOQ under the
 helm of Doug Tanger. Doug's father, Alexander, is an FMedia!
 reporter/subscribe. Geller, at last report, was still asking listeners
 to send in money so that the operation will be debt-free when
 Doug takes it over.

Bill Nollman sent quite a list of FM station nonIDs. "The new
 FM Atlas is great, although I disagree with the metric units.
 Having the translators in their own section was a super idea, too.
 The maps, however, still are quite difficult to use for some states.
 When I get coastal trips to NJ, VA and NC, I like to look and see
 which stations all along the coast as far down as I'd like to see,
 well, I realize that there is a lot of stations but the DE, MD, WV
 page is utter confusion. It looks as if WV is a coastal state. I'll live
 with it, but I thought you'd like to have my input. I built the
 SCA decoder that Tim McVey printed in the Feb. 1985 VUD and
 got pretty good results. I'd like to get a sample issue of FMedia!
 [Samples are \$1.50 for DXers, and can be ordered from FMedia!
 at my address at top of this column; one year's issues can be
 yours for \$18. With the eastern maps, I think it's mostly a matter
 of getting used to them. TX is something else, and I would
 welcome any reader's input as to how that state could be
 remapped—b.e.]

Mel Murray, in another letter, says "I'm an avid DXer and
 appreciate your monthly column and, of course, the FM Atlas.
 Because of your column I discovered an excellent class A station
 over in Strasburg VA that I enjoy listening to—WESI 104.9 mz."
 Keith Pugh: "Looks like I've done a real good job with the
 new FM Atlas. Nice to include a translator list."

Gus Mancuso: "Would still like to see adding directional info
 for stations, that is WHICH
 WAY is signal pointed? Don't
 like metric measurements, espe-
 cially on maps. . . All things go
 for my trip in July as mentioned
 before. May be doing a bandscan from
 Baltimore next week." The illus-
 tration here is for WGRX
 100.7 Westminster MD and its
 Baltimore translator on
 100.1. Trouble is, FCC does
 not print directional info as to
 pointedness or directions of
 nulls.

Alain Pepin: "Happiness is a province-wide power failure.
 WTSL-FM 92.3 Hanover NH was noted with light rock and slogan
 "Light 92.3 WTSL-FM." All Montreal stations off several hours,
 except CFGL 105.7 and CITE 107.3. No tropo, but a deliciously
 clean FM dial on April 18."

DXer John Patterson may be moving to Antioch CA from
 Pleasanton. "It looks like I'll be just outside any triangle
 including Oakland and Castro Valley. So I may have to start a
 new log, including Concord, here and Antioch. It won't be
 overwhelming; 27 or 28 loggings are all I lose! KOPT 100.5
 Sacramento made its official debut at 10:05 4/19 with rj, "The
 Point". So far the jazz played has been mostly upbeat, rock-
 influenced material, with a few quality cuts. They're not great,
 but are far more palatable than the other Sacramento commercial
 stations. Still no phone listings as of 5-3: KTOX 90.1 Bakersfield,
 KCFM 98.9 and KRKQ 105.3 Chester, KHAP 89.1 Chico, KRCC
 96.5 Colusa, KZDO 105.5 Copperopolis, KLCZ 102.3 Corcoran,
 KECU 105.5 Eureka, KWFS Fort Bragg, KFN0 90.3 Fresno,
 KYIA 90.1 Goshen, KAXL 88.3 and KRAB 106.3 Greencreek,
 KSUR 99.5 Mt. Sullion, KRFR 80.7 Redding, and KMRJ 105.9
 Ukiah."

Ken Simon with word on pirates in S. FL: "WMTL ex 91.7 is
 back on! 88.5 after WKPX is off. Other two probably will be on.
 Gave his phone no.: (407) 881-4266. WMTL operator: "Jeff No
 Last Name" told me all three operate with kits that are made for
 pirate operations." [And probably sold by Panaxis Productions,
 Paradise CA. Look for Panaxis' classified ads in magazines like
 Popular Communications.]

Fred McCormack and Zel Eaton both sent word about the
 massive tower collapse near Colony MO that claimed the lives of
 three workmen who were trying to buttress the KTVO, channel
 3, and KRXL 94.5 Kirksville MO tower. They were at the 600'
 level of the 600 meter tower when it went down for no apparent
 reason. KTVO resumed broadcasting from its older 305-meter
 antenna near Lancaster MO (studios in Ottumwa IA), while
 KRXL resumed with lower power from a tower in Kirksville.
 Frank Merrill is thus relieved of a strong local vhf signal that
 popped up in Macomb IL when KTVO was using the Colony
 tower. Workmen's names not released, but one was quoted who
 had just visited an area store that there was good money in tower
 work, and he "could retire in ten years if I live that long." Only
 the foreman, who was on the ground, did not die.

Kenneth Walter had a province of Ontario map sent me, so I'd
 have better detail to work with. He said the new CFMX grant in
 the Hamilton area will give the classical broadcaster, based in
 Cobourg, better signals from Burlington to Belleville. "Even a
 10% listenership potential of that market will give 250,000 to
 300,000 more—a breakthrough for Canada's first commercial
 classical music station. . . Your reference to licence recalled for
 me a language class in which certain words were discussed which
 had the same sound but differentiated in meaning between noun
 and verbs with a variation in spelling [homonyms?]. For
 example, licence is the noun and license is the verb. Over the
 years, FCC Washington [with their limited knowledge of nuances
 of our language] just started to lump nouns and verbs together
 and use the verb "license" all the time."

Jeremy Lansman: "I did reprint Sex and Broadcasting, but we
 didn't change any information—it's totally out of date. If you
 have Edition III you have it all." For information on this book
 about starting community radio stations, write The Fessenden
 Review, Box 7272, San Diego CA 92107.

One Don L. Moody asks for a combined AM-FM-TV book, and says KAUL-FM "has changed its call letters to KQLV FM and plays rock (r) oldies." I'm wondering if this could be Sheridan AR 102.3. Nothing from the FCC on that.

An Atlas reader, J. T. Anderton, likes the translator and subcarrier entries, but "The general tone of your FMusings sections is like a little crusade to advance the general superiority of FM. Why? If there was a 'war' between the bands, FM won, hands down, a long time ago. Is it not satisfying enough for you that FM now commands an overwhelming 70.6% of the audience, nationwide? Have you no grace in victory? No one I've talked to in the last 10 or 15 years has even begun to question FM's audio superiority. Those who are realistic about the ways the audience uses radio, and the receivers most people use to listen, feel that audio quality is only one factor among many which determine why people listen to a particular station. Many AM stations provide their communities a very useful service. The Athletics bear that out in many markets. Many AM stations have for one reason or another, fallen out of the race. But, in those markets with excellent AM stations, a significant, often very large, audience listens. This indicates to me that your average listener places just as much emphasis on what's on the station as how the audio sounds. Why knock AM just because it's there? Does that help anything?

"AM stereo can sound very good. Not FM quality--no one ever said it would have the full spectrum of response--but it can sound very good. I have had a Delco AM stereo radio in my car the last four years, and have generally found the slight degradation of response to be a fair trade-off to get rid of the annoying multipath and picket-fencing so often found in FM reception. Many listeners in my car have been pleasantly surprised when I told them the station to which we had been listening was AM, in stereo.

"If you want to worry about something in the way of a threat from AM, worry about wider band audio. If you have heard any of the prototypes of the new NRSC AM receivers, you know how good seven or eight kHz response can sound. Not FM, not 15 kHz response, but close enough that widespread use of NRSC radios would lessen the audio advantage of FM. And, the NRSC standards are prompting a reduction of AM adjacent channel splatter and a general clean-up of AM transmission facilities. Audio parity can never come, but wider band audio, implemented over the next few years, will help AM, if the station owners program a product a significant audience wants to hear. AM stereo, as we all know, has had a rocky launch, and still faces an uphill climb to widespread use. But, wider bandwidth AM is a significant development. NAB's engineers would probably be happy to bring you up to date on these developments if you are interested.

Two other observations. 1) The switch to metric makes the book much harder for most people to use; the federal government (and the FCC) is leading a very unpopular campaign for metric--most of the rest of us use standard miles; and 2) there are many, many directional FM antennas out there, in use, which are not noted in the directory." [I always check with the FCC-NTIS datalist whenever there is a question about a station having a dia or not. In spot checking, I see no real difference between mine and the official list. Many stations have "inadvertent directionality," caused by placement of their antenna on the tower, and this does not show in the datalist, nor should it. Any other stations allegedly having a dia I would like to know about, so that I can check it against the other reference that I have--b.e.]

And that's all the VUD-type news for this month. To fill, here is material from last month's FMedia! That issue also contained a transcript of my impromptu speech to the Association of Radio Reading Services, on May 13 in Omaha at a vendor's luncheon. I titled it "This is Not Albania," and it was extremely well received.

More Small-Print Happenings and FM Industry News

FCC tells me that the notice of inquiry, FCC-88-120, of March 24, 1988, on FM translators has not yet been issued. "The freeze on commercial FM translator stations concerns applications for new translator stations and/or major changes to existing stations or facilities, either commercial or noncommercial, for assignment to the commercial band," writes Alan J. Schneider, chief, auxiliary services branch, FCC. "Further, an application which is currently pending or filed under one of the exceptions to the freeze, against which an appropriate petition to deny is filed raising issues regarding for-profit operation or unequal competitor, will be held pending resolution of the Notice of Inquiry proceeding."

Strange bedfellows, but joining forces nonetheless, are four groups who want the FCC to backtrack and not allow noncommercial, educational stations 88-92 mhz to utilize technologies other than over-the-air to get signals

to their translators. Groups are:
 National Public Radio
 National Association of Broadcasters
 National Federation of Community Broadcasters
 Association of Maximum Service Telecasters, Inc.
 The NFCB notes that the FCC currently provides for waiver in rare situations where over-the-air delivery will not serve a community--Alaska being a good example--but warns that the door may now be open for the potential development of a nationally-led translator network. "Possibly the intent of Moody Bible Institute when they requested the change?" Group points to Doug Sweet, general manager of KMNJ *91.9 Astoria OR, which uses three translators to increase coverage by "one third. The translators allow coastal communities to receive the local signal. But Doug remains a strong supporter for over-the-air delivery in order to maintain local origination, an important aspect of public radio." NAB, in its publication, Today, quotes J. D. Williamson II, WKBN-FM 98.9 Youngstown OH: "Low power FM stations do not make communications policy sense for either commercial or non-commercial radio." The four groups' petition maintains that the FCC move will "deplete limited noncommercial FM spectrum availability and will result in irreversible harm to the development and expansion of public radio. . . . In its decision, the Commission has failed to take into account competing NCE-FM spectrum needs, public interest obligations, localism, and other factors relevant to the Commission's role in decisions about spectrum allocation." The organizations say they're not against use of alternative signal delivery for extending service to otherwise unserved areas, or waivers for Alaskan stations. One group notably absent from the foursome is National Religious Broadcasters, which seems to be caught in the middle. Some of its constituent stations are heavily into translators, such as Moody, while others fear encroachment. Still, it would be good for the umbrella organization in religious broadcasting to take a stand--any stand--as it has for greater financial accountability among TV and radio preachers.

Westwood One has acquired its first radio station, WYNY 97.1 New York for \$39 million. Word has it that WYNY's call letters and country format will switch with WQHT, moving to 103.5. WQHT, Lake Success NY would switch to 97.1. Move said to result in WQHT getting a better transmitter site on New York's World Trade Center, and freedom from having to protect signal of WPRB 103.3 Princeton NJ. Dial setting said to be near stations with similar formats, but I find that hard to believe. Next-door neighbors on the dial to WQHT would be WQXR-FM 96.3 with classical and WNEV 92.9 with ethnic, while at 103.5 it enjoyed the neighborliness of WNEV-FM 102.7 rock, and WNCN 104.3, classical. Knowing the quirks of FCC allocations, WYNY would perform perfunctory recognition to Lake Success, as a station licensed to that community where the United Nations was once located, while WQHT would become in fact what it is already, a New York city station.

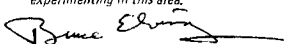
FCC public records rooms described in a couple of industry publications as disaster areas. Words like "zoo" and "hellhole" were used to describe the places where public, publishers and industry representatives are supposed to obtain routine information. Former paralegal Perri Womack, who quit "out of frustration," said clerks in the Mass Media reference room are often bribed with gifts of food or liquor in order to get service. FCC managing director Edward Minke denied use of bribery, but admitted things could be better. He criticized a plan to put station records on videotapes as "underfunded and ill-conceived."

FCC's indecency policy is putting a "chill" on Pacifica stations. Marita Rivera, manager of WPFW *89.3 Washington DC, says "I have program hosts who are censoring themselves--pulling things off the air without me even knowing about it. I'd love to see a list of everything that hasn't aired on WPFW because of this rule." WPFW program hosts may be especially jittery, knowing that the regulators are only a local station dial away from hearing their shows.

FCC hearing designation order in the educational band pits WSAE *89.3 Spring Arbor, MI, which wants *89.7 with the same power and height it has now, with little WOCR Olivet, which wants to increase power from 10 to 120 watts at 23 meters on *89.7. FCC says the two places are 45 km apart, and grant of one would preclude grant to the other. Again, as is the case with noncommercial applicants, the FCC will be asking whether a share-time arrangement could be worked out, and the applicants are free to pursue this option between themselves.

The CRTC in Canada is expected to soon issue a new policy allowing greater flexibility in the use of the Vertical Blank Interval (VBI) on television and Subsidiary Communications Multiplex Operation (SCMO) on FM radio. Under the proposal, probably patterned after U. S. FCC practices, CRTC authority would no longer be required for such services. VBI is used mainly for captioning for the hearing-impaired, noted the magazine Broadcast Technology. While SCMO includes music, ethnic, station control equipment (but no reading to the blind in Canada), the fastest growing use of it is in data. "About one-third of the FM stations which use SCMO are experimenting in this area."

73ily,



NORTHERN FM-DX

GREG CONIGLIO
 5100 GLENWOOD DRIVE
 WILLIAMSVILLE, NEW YORK 14221

JULY 1988

DEADLINE: THE 5TH

FOR DXers IN: Canada, ME, NH, VT, MA, RI, CT, NY, NJ, PA, DE, MD, VA, IL, WI, IA, MN, ND, SD, NE, MT, WY, ID, WA, OR, AK, and HI

Not much troops to speak of, but the skip has been interesting, especially the 11th and 27th of May. If you live in one of the above areas and have had DX, send in a report!

BILL NOLLMAN - 8 AUTUMN WAY - BOZRAH, CONN 06334

EQUIPMENT: CARVER TX11A TUNER, REALISTIC STA-740 (AMPLIFIER), CH MASTER STEREO PROBE @ 35' AGL, CH MASTER HD-9515 HEAVY DUTY ROTOR, and 100FT CH MASTER RG-59U FOAM COAX.

FEBRUARY 1988

| | | | | | |
|------------|-----------|-------|----|--|------|
| 25 MS | 1035 WAKX | 98.9 | MN | Duluth "99 Wax" In for nearly 1 min!!! No E Skip at the time. Signal was fluttery going from barely audible to a little better than good | 1040 |
| 29 MS & TR | 1107 WNIZ | 96.9 | IL | Zion, weather from Midway (airport) and O'Hare field | 815 |
| | 1132 WUUU | 102.5 | NY | Rome "U102" | 210 |

MARCH 1988

| | | | | | |
|-------|-----------|-------|----|--------------------------------------|-----|
| 10 TR | 1943 WRKZ | 106.7 | PA | Hershey "Z 107" | 205 |
| 12 MS | 0355 WDJX | 99.7 | KY | Louisville "DJX" thats all I heard!! | 765 |
| 15 TR | 1917 WACS | 103.5 | NY | Cobleskill "Wax 103", barely audible | 150 |

MAY 1988

| | | | | | |
|-----------------------|-----------|-------|----|---|------|
| 2 MS | 2311 WDBN | 94.9 | OH | Medina, 1/4 sec. burst.... "BN" heard NEW STATE | 500 |
| 3 MEGATROPO | 0500 WSRE | 105.7 | NC | Columbia "Surf 106" | 455 |
| | 0619 WTEB | 89.3 | NC | New Bern, NPR | 520 |
| | 0700 WRVS | 90.7 | NC | Elizabeth City | 425 |
| | 0701 WHYV | 90.9 | PA | Philadelphia "FM 91", NPR | 190 |
| | 0701 WESM | 91.3 | MD | Princess Anne | 310 |
| | 0900 WVDQ | 99.3 | NC | Manteo "99 VDP" | 445 |
| 10 TR | 0335 CJMO | 103.1 | NB | Moncton, "Rock 103" NEW PROVINCE!! | 460 |
| | 0344 CBH | 102.7 | NS | Halifax | 450 |
| | 0346 C100 | 100.1 | NS | Halifax "C-100 Lite rock, less talk" | 450 |
| | 0407 WAFX | 104.7 | ME | Belfast, "The FOX 104.7" | 235 |
| | 0418 WMHT | 89.1 | NY | Schenectady, local at 1.5 m off!!! RARE | 130 |
| 11 E-SKIP FIJASCOS!!! | 1512 KESY | 104.5 | NE | Omaha "EZ 104 FM" | 1235 |
| | 1521 WOKZ | 105.7 | IA | Waterloo | 1040 |
| | 1522 KLYV | 105.3 | IA | Dubuque "all hits K-Live 105" | 960 |
| | 1524 WFMD | 103.3 | IA | Des Moines "all new FM 103" | 1105 |
| | 1526 WATD | 102.5 | | many possibilities...U2 some DEEP FADES! | |

BILL NOLLMAN'S REPORT - CONTINUED

MAY 11 E-SKIP COPY:

| | | | | | |
|--|------------|-------|----|--|------|
| 1527 | KNWS | 101.9 | IA | Waterloo, "G" | 1740 |
| 1530 | KICD | 107.7 | IA | Spencer | 1170 |
| 1530 | KFMC | 106.5 | MN | Fairmont EBS Test/SW Mn area | 1140 |
| 1542 | WGOV | 97.1 | WI | Sparta | 960 |
| 1543 | KRIT | 96.9 | IA | Clarion | 1115 |
| 1545 | KWOA | 95.1 | MN | Worthington | 1190 |
| 1545 | KISD | 98.7 | MN | Pipestone "Kissed all hit radio" | 1235 |
| 1546 | KCWV | 89.9 | KS | Leavenworth "The Wave" | 1200 |
| 1555 | unID | 88.3 | MS | News | |
| 1604 | unID | 94.3 | MO | Missouri Network | |
| 1608 | WOW | 94.1 | NE | Omaha "Country 94" | 1235 |
| 1609 | KFMH | 99.7 | IA | Muscatine "99 Plus" | 975 |
| 1611 | KANU | 91.5 | KS | Lawrence | 1220 |
| 1613 | KXLP | 93.3 | MN | New Ulm "Lite Rock 93" (93.1?-ec) | 1140 |
| 1613 | KTTS | 94.7 | MO | Springfield, comm. for Color 10 TV (KDLR) | |
| 1615 | KGGO | 94.9 | IA | Des Moines | 1105 |
| 1620 | KMAJ | 107.7 | KS | Topeka, "MAGIC 108" | 1225 |
| 1623 | KGRS | 107.3 | IA | Burlington | 975 |
| 1628 | unID | 98.9 | ?? | "POWER 98.9" TOP 40 mx (probably WPXR-IL-ec) | |
| 1631 | unID | 98.3 | MO | Missouri Network AGAIN!! | |
| 1633 | KUDL | 98.1 | KS | Kansas City "K-98" | 1190 |
| 1633 | KMDD | 98.7 | IA | Centerville | 1070 |
| 1634 | KZL | 89.5 | IA | Le Mars "casual" LOW MODULATION!! | 1230 |
| 1640 | KCPW | 94.9 | MO | Kansas City, POWER 95 | |
| 1642 | WALV | 95.5 | TN | Cleveland, "ALIVE 95" where'd this come from? | |
| (I noted some short skip to TN too-ec) | | | | | |
| 1644 | KEFM | 96.1 | NE | Omaha | 840 |
| 1646 | WIBW | 97.3 | KS | Topeka "97FM" | 1225 |
| 1647 | KEXL | 106.7 | NE | Norfolk | 1300 |
| 1655 | KFRX | 102.7 | NE | Lincoln "ALL HITS 103" | 1275 |
| 1657 | KLIN | 107.3 | NE | Lincoln | 1275 |
| 1703 | KXIA | 101.1 | IA | Marshalltown "KIX 101" in/out with KCLR | 1070 |
| 1705 | KLIR | 101.1 | NE | Columbus | 1395 |
| 1706 | KFMO | 101.9 | NE | Lincoln "9102" | 1275 |
| 1709 | KNEN | 94.7 | NE | Norfolk | 1200 |
| 1711 | unID | 95.3 | | "K-95" TOP 40 | |
| 1717 | WCCI | 100.1 | IL | Savanna | 925 |
| 1725 | KIDA | 92.7 | IA | Iowa Grove | 1200 |
| 1729 | KKYA | 93.1 | SD | Yankton NEW STATE!! "the voice of SE, SD" | 1300 |
| 1732 | KCHE | 93.1 | IA | Cherokee | 1200 |
| 1736 | KBBG | 88.1 | IA | Waterloo "MAGIC 88 FM" | 1040 |
| 1738 | unID | 88.3 | | Trans World Radio | |
| 1745 | KKEZ | 94.5 | IA | Fort Dodge "J-94" | 1115 |
| 1751 | KTFX | 92.1 | IA | Fort Dodge, "KIX 92" | 1115 |
| 1753 | KDEL | 95.3 | IA | Delaware "High Country KDEL" | 1010 |
| 1757 | KTFD | 103.3 | IA | Spook City | 1235 |
| 1804 | KGWC | 95.9 | IA | Webster City | 1105 |
| 1806 | KOLI | 95.5 | IA | Spook City, "KG-95" | 1255 |
| 1806 | KDUR | 95.3 | IA | Independence | 1025 |
| 1811 | KDIB | 106.3 | IA | Clarinda | 1190 |
| 1816 | KP50 | 99.3 | IA | Boone, O MOBILE | 1115 |
| 1830 | FM Es Dead | | | TV KO-2 still in at 2030 and KTVI (2-ec) at 2200 | |

ALL TOTAL, 31 NEW STNS, 1 NEW STATE, 1 NEW TV

| | | | | | |
|-------|------|-------|----|-------------------|-----|
| 12 ES | | | | | |
| 1848 | WLLX | 92.1 | TN | Minor Hill "WLLX" | 925 |
| 15 TR | | | | | |
| 2045 | WRFY | 102.5 | PA | Reading "Y 102" | 215 |

BILL NOLLMAN'S REPORT-CONTINUED

COMMENTS: This opening (May 11-ec) hit the scanner all morning, got to CH2 (AETN (2-ec) by 1445, swung over to KO-2 (St Joseph MO) at 1500. Finally CH 3- KM-3 TV from Omaha NE at 1507 and shot clear past end of FM band by 1515!! UNBELIEVABLE... Signals were strongest Es ever for entire opening. Most 5 and 6 LEDs. Some receipts were 2 stns deep. A lot of deep fading. TV unviewable by 1530.

GUS MANCUSO - 5615 INWOOD ST. - HYATTS, MARYLAND 20785

Gus sends word of a bandscan he plans to do in New Jersey....

"Am planning a super bandscan from East Windsor (Central) New Jersey in July. Will be staying 4 nights, one on each side of Clarion Hotel off of Jersey Take. Hope you will save LOTS of space. (Last editor published two of mine last year, also from NJ) (I did the Mt. Laurel bandscan-ec). Shooting for 175 stations, other members welcome to join (Dutch treat, of course!) It's 1 1/2 hours from Atlantic City, 1 hour New York City, 1/2 hour GREAT ADVENTURE theme park. Will have exact dates set by then (It will be during mid-week, not weekend).

-Gus Mancuso

ROBERT S. ROSS - VE3JFC - BOX 4373, STN. C - LONDON, ONTARIO N5W 5J2

EQUIPMENT: Receiver- Viking SC5813, Antenna- Beam

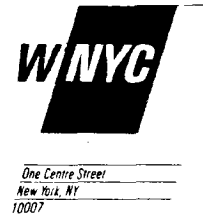
MAY 1988

| | | | | | |
|-------|--------|-------|----|---|------|
| 6 Tr | | | | | |
| 2106 | [WVAE] | 92.3 | MI | Detroit, ez-list MoR mx, ID as "The Wave" (Ex:WXXI) | 120 |
| 2117 | [WDTX] | 99.5 | MI | Detroit, rock music, Ex: WABX | 120 |
| 13 Tr | | | | | |
| 2353 | [WNWV] | 107.3 | OH | Elyria, MoR Yuppie mx, "The Wave", Ex: WCZR | 120 |
| 17 Tr | | | | | |
| 2216 | WQVK | 98.7 | WV | Wheeling, C&W music | 200 |
| 23 Tr | | | | | |
| 2240 | CBBP | 103.9 | ON | Peterborough, Jazz pm // 100.5 London CBC | 176 |
| 26 Tr | | | | | |
| 1850 | WQUC | 89.1 | OH | Cambridge, talk program, Tri-City ID | |
| 27 Es | | | | | |
| 1916 | WRMF | 97.9 | FL | Palm Beach, ID, pop/rock, rock concert promo | 1130 |
| 1925 | WAFG | 101.9 | FL | Ft. Lauderdale, Relis. pm - Dr. Kennedy | 1170 |
| 1929 | WRMB | 89.3 | FL | Boynton Beach, ID as "WRMB-Boynton Beach", into "Urban Alternative" | |
| 2007 | WEGS | 91.7 | FL | Milton, Relis.-Gospel music | |

KURT RICHARDSON - 23 BEVELL ST. - NORTH SYRACUSE, NEW YORK 13215-3586

MAY 1988

| | | | | | |
|-------|------|------|----|------------------------------|--|
| 11 Es | | | | | |
| 1544 | KSD | 90.7 | MO | St. Louis, "93.7 (SD)", RDR | |
| 1544 | KRNA | 90.9 | IA | Iowa City, KRNA-FX, RDR | |
| 1544 | KCPW | 94.9 | MO | Kansas City, KQAK 95, CHR | |
| 1544 | KFRP | 94.1 | MO | Kansas City, 94 KFRP, X | |
| 1545 | KUDL | 98.1 | MO | Kansas City, 88FM, AC/R | |
| 1547 | KYKY | 90.1 | MO | St. Louis, Y-98, AC | |
| 1548 | KGGO | 94.9 | IA | Des Moines, FM-95, CHR | |
| 1503 | KDZO | 95.1 | IL | Decatur, 95-Country-X | |
| 1604 | KGEP | 87.7 | MO | Dorchester, 87 1/2 Country-X | |
| 1631 | KBBG | | | (Where??-ec) | |
| 1633 | KHLT | 94.1 | AR | Little Rock, K-LITE, AC | |
| 1635 | KSYN | 92.5 | MO | Joplin, 92-KSYN, CHR | |



KURT RICHARDSON'S REPORT - continued

MAY 11 Es continued

1641 WYMG 100.3 IL Jacksonville, 100.3 WYMG, AOR
 1645 WJMO 100.1 MO Joplin (Jefferson City-sec), AC
 1646 WIL 92.3 MO St. Louis, FM 92, K
 1652 unID 98.5 US-98 FM (likely KUSD Tulsa, OK-sec)
 1653 unID 98.9 98.9-THE WAVE
 (likely KDWV Leavenworth, KS-sec)

27 Es

2034 WZTA 94.9 FL Miami, 94.9 Zeta 4, AOR
 2035 WLVE 93.9 FL Miami Beach, Love 94 FM, AC
 2035 WQBA 107.5 FL Miami, Super O, SS
 2036 (WPOW) 96.5 FL Miami, 96 Hits??, DHR
 (Kurt, those are the calls-sec)
 2038 WXOS 100.3 FL Plantation Key, FM 100, K
 (calls now WOTH-sec)
 2039 WQTR 97.3 FL Miami, 97 GTR, AOR
 2041 WSHE 103.5 FL Ft. Lauderdale, 103.5 WSHE, AOR
 2043 (WHOT) 105.1 FL Coral Gables, Hot 105, CHR

(Kurt, I assume the asterisks mean the station is a new log-sec)

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NEW YORK 14221

EQUIPMENT: PIONEER TX-9100 TUNER W/S-ELEMENT FM ANTENNA ROOF MOUNTED WITH ROTOR 20' AGL. COAX USED.

MAY 1988

11 Es

1610 KSSN 95.7 AR Little Rock, ads 920
 1615 WYNU 92.3 TN Milan, local ments. 723
 1620 KDVV 100.3 KS Topeka, V-100 915
 1642 KOBC 90.7 MO Joplin, ID 921
 1648 KJMO 100.1 MO Jefferson City, r 758
 1651 KWTO 98.7 MO Springfield, r, 99 Hit FM 760
 1653 KWEN 95.5 OK Tulsa, k, K-95 1028
 1655 KRAV 96.5 OK Tulsa, rm, wx & nx, legal ID 1028
 1704 KLSI 93.3 MO Kansas City, r 860
 1705 KSHE 94.7 MO Crestwood, oldies, K-She 95 660
 1706 KSYN 92.5 MO Joplin, r 921
 1707 KCMO 96.7 MO Columbia, r 756
 1717 KNGM 91.9 KS Emporia, 9, Kingdom 92 958
 1721 KMCM 92.5 MT Miles City, rm, New State! (#34) 1350
 1730 KBYZ 96.5 ND Bismarck, r, Z-95 1115

15 Tr

0834 WAAL 99.1 NY Binghamton, r, AT40, o/local CK02 Toronto 157
 0844 WYDD 104.7 PA Pittsburgh, "Jazz Impressions" 187
 0900 WVPM 90.9 WV Morgantown, W.V.P.R. ID 239
 0916 WVAQ 101.9 WV Morgantown, r, Q-102 (not strict) 239

23 Tr

1753 WEDA 95.1 PA Grove City, oldies, o/WZSH Bristol Center 148
 2011 CBON17 95.1 ON North Bay, FF 250
 2308 WFLL 102.3 NY Canandaigua, k 74

27 Es

1909 WMUM 94.3 FL Marathon, b, promo, "Stereo Island" 1270
 1921 WDMO 92.3 FL Hialeah, SS 1190
 1934 (WHTQ) 96.5 FL Orlando, ra, Q-95 Ext WH00 1011

29 Tr

1012 WDBN 94.9 OH Medina, b, o/semi-local CK07 Oshawa 209
 1016 CKDK 102.3 ON Woodstock, r, K-102 109

30 TrS

0937 CFBG 100.9 ON Bracebridge, rm, "Muskoka FM 101", new to air 148

31 Es & Tr

1658 KUAR 89.1 AR Little Rock, c, ment of KLRE 90.5 920
 1709 KEOM 99.3 TX Mesquite, wx, flood watch: ID 1190
 1711 WCSE 89.3 OH Cleveland, ID, Es backscatter? 189
 1744 KNYD 90.5 OK Broken Arrow, promo 1029

GREG CONIGLIO'S REPORT - continued

MAY 31 Es continued

1951 KTFA 92.1 TX Groves, local ads 1229
 1949 KKED 90.3 TX Corpus Christi, c, legal ID 1470
 1953 KZFM 95.5 TX Corpus Christi, r, Z-95 1470

JUNE 1988

1 Es & Tr

1836 KWNC 96.5 SD Sioux Falls, wx 901
 2001 WNYZ 96.7 NY Utica, r 165

5 Es

2204 KOMA 92.5 KS Phillipsburg, r, 92-0 (slogan change) 1080
 2207 KGGD 94.9 IA Des Moines, rp 767
 2208 KZEN 100.3 NE Central City, k, KZ-100 987
 2216 KKYA 93.1 SD Yankton, k, KK-93 934
 2251 KGFY 92.7 SD Pierre, r, KD-93 1074
 2253 KSOY 95.1 SD Deadwood, ads 1240
 2257 KBHE 89.3 SD Rapid City, c, S.D.P.R. 1214
 2300 KGGG 100.3 SD Rapid City, r, legal ID 1214
 2317 KGLS 100.3 KS Colby, ads, LS-Radio, KC Royals postgame 1176
 2320 KILI 90.1 SD Porcupine, Top-40, then promo in Indian language, "Keelee" slogan hrd, but calls too 1180
 2327 KSDZ 95.5 NE Gordon, ads 1175

9 Es

0818 KERA 90.1 TX Dallas, NPR 1228
 2138 KQUE 102.9 TX Houston, ads, ID 1290
 2132 KIKK 95.7 TX Houston, k, Kick-96 FM 1290
 2134 unID 96.5 rm, "K-Lite"
 2136 KKED 90.3 TX Corpus Christi, c, AGAIN!?!? 1470
 2138 KBTS 93.3 TX Killeen, r, B-93 1317
 2142 KAPT 94.7 TX Luling, r, "94.7 Capital FM" 1388
 2151 KJEF 92.7 LA Jennings, k, ads 1168

An interesting season so far; not much FM skip, but when it's been on FM, it's been interesting. Things like Tenn and Mont in the same opening, Corpus Christi being heard twice (1470 mi.), etc. TV skip has been plentiful, with 16 consecutive days of it as of today (June 11). As for tropo, not much.

COMMENTS:

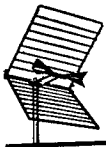
* Logos seen in this column in the past few months have been supplied by: Joe Fala, Dave Nieman, and me.

* I am implementing a new policy concerning state reports:

There will be a LOG CUTOFF date. It will be 4 MONTHS FROM THE POSTMARK ON YOUR REPORT. For instance, if you mail your report to me on the 2nd of July, any loggings in that report before March 2nd would be deleted. Remember, the report still should be here by the deadline (usually the 5th). This does not mean I condone reporting every four months. I would prefer members to report monthly in the summer. Of course if you only log one in January and two in February there is no need for separate reports, but there are usually many more loggings in the summer.

* I would like to trade aircheck and DX tapes with members. I am most interested in Top 40, but I am looking for all formats. I can provide local quality tapes of Buffalo and Toronto stations as well as some Rochester and others. Write if you want more info.

* I recently visited Toronto. DX was limited due to extreme imaging from locals. Only out of town stations heard: CIDG, CHAY, CHRE, CKDS, CKLA, and WMJQ. No sign of locals CHRY and CIRV. In the base of the CN Tower, the Toronto stations were actually quite weak, because I was under the signal



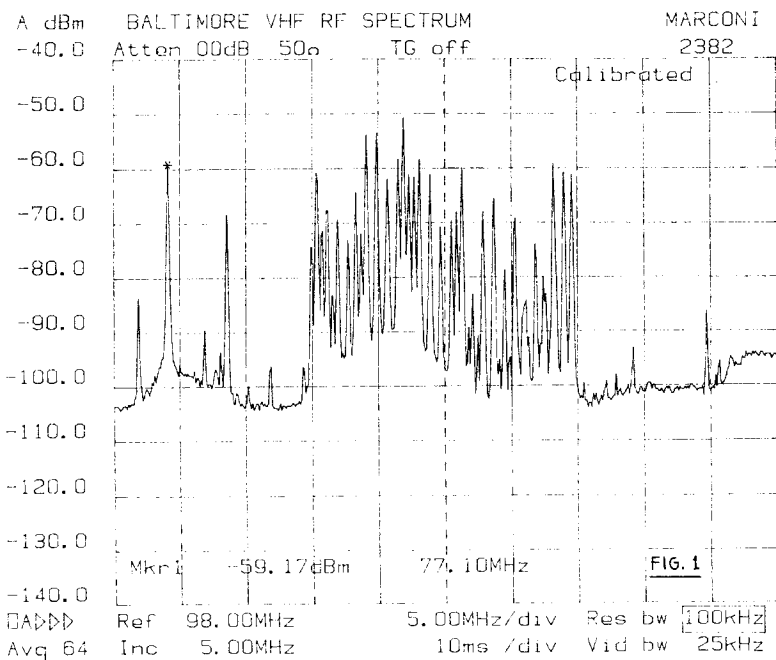
TECHNICAL TOPIX

For a few moments, let's look at some radio and TV signals the way a receiver would. It is interesting and informative to make a PSD (Power Spectral Density) plot of any radio spectrum that one wishes to monitor. In our case, we wish to monitor the FM band, so Figure 1 is a spectrum analyzer display for the range 73-123 MHz. For this plot, I merely connected a "suburban" variety TV-FM log-periodic antenna (Winegard CS-7078) to the input of a Marconi 2382 VHF spectrum analyzer. The plot was made on a H-P pen plotter, with frequency on the horiz. axis and amplitude (signal strength) on the vert. axis. This experiment was done about 4 miles SW of downtown Baltimore, with the antenna pointed N and set up on the second floor inside an office building.

The stations received at that time show up as a collection of "spikes" that make the FM band clearly stand out against a noise floor of around -100 dBm. (dBm's are dB referred to 1 milliwatt of power into a 50-ohm load. In this example, -100 dBm equates to about 2.2 microvolts. The tallest spike is at -51 dBm, or about 630 uV.)

Three TV channels fall within the plot, to the left of the FM band. WRC-4 has an audio carrier at 75.75 MHz, which is the leftmost spike in Figure 1. A complete WTTG-5 spectrum shows up next. The marker at "77.10 MHz" is on the video carrier at 77.25. The audio carrier is 4.5 MHz above this and about 10 dB down, just as expected. (Transmitted aural power is typically one tenth the video ERP.) The peak in between them is a colorburst subcarrier at 3.579545 MHz above the video. Small peaks at 83.25 and 87.75 MHz are from WPVI-6.

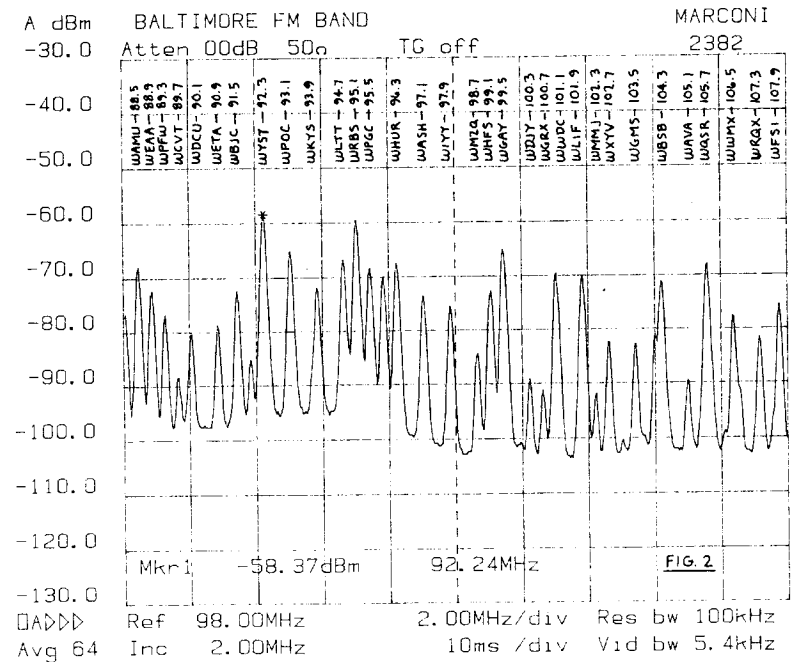
Small spikes to the right of the FM band are data and voice signals that popped up in the 108-138 MHz aircraft band.



This plot should serve to illustrate the crowded nature of the FM band here: at least 40 separate signals can be discerned in the close-up of Figure 2. Two observations come to mind immediately. One, there is a wide variation of signal levels. Notice that your tuner is expected to process signals anywhere from -60 to -100 dBm. In other words, that strongest signal (here, WYST-92.3) is 10,000 times stronger than the weakest (probably WBEY-103.1). A higher-gain antenna outdoors and/or a preamp can multiply that by a factor of ten.

Second, note that selectivity becomes more important than sensitivity in being able to tune in weaker signals. For instance, one can see that the right hand side of the spike at 106.5 MHz (That's WWMX, third from the right) has a bend in it. That bend is the signal of WBMW at 106.7--only about 12 dB weaker, but almost completely obliterated because of the 2382's inability to resolve adjacent channels. (Actually, I simulated that effect by setting the spectrum analyzer's resolution bandwidth to 100 kHz. If this were a plot from a real tuner, it might be said to have an adjacent channel selectivity of 12 dB or less!)

Figure 3 (see the next page) is a close-up of just one of the spikes, that of WBJC-91.5. Here is what the spectrum of an FM radio signal looks like in real life to a piece of equipment. I set the 2382 to plot from the exact center of WBJC's channel to its upper edge, i.e. 100 kHz. The main carrier of WBJC is at the extreme left (91.500000 MHz). Since this is a stereo FM station, the audio will be contained in two, 15 kHz-wide chunks, one of which is L+R and the other, L-R. Because of the way the broadcast is modulated, these chunks occur in pairs around carriers. Thus, the L+R (mono) information falls within the first 15 kHz either side of the main carrier (My plot only shows what is to the right of the main carrier.)



WESTERN TV-DX

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

July 1988

Deadline: 8-4-88

Next, notice the peak 19 kHz above the main carrier (In Fig. 3 this is labelled by Marker 1--91.5190 MHz.) This is the stereo pilot subcarrier, which a stereo tuner must have in order to re-assemble the L and R parts of the audio. A smaller peak shows at double this frequency, or 38 kHz above the main carrier. On either side of this peak is a pair of L-R chunks, each 15 kHz wide. We now have all the parts needed to receive a stereo broadcast. However, in a simplistic sense, we've only accounted for 53 kHz of bandwidth but the FM channel that WBJC uses goes out 100 kHz. Well, band conditions are such that WBJC has a Subsidiary Communications Authorization (SCA) which allows the station to broadcast other programs on the edge of its channel. Two SCA services are offered by WBJC, both of which show in Fig. 3. The hump centered at 67 kHz above the main carrier is a data transmission, while the hump centered at 92 kHz above the main carrier is voice transmission.

A receiver must lock onto the main carrier of whatever station it is tuned to, and be able to receive as much of the 200 kHz bandwidth of a channel as it can without being excessively bothered by the other 199 channels in the FM band. You can see plainly in Figure 3 the components of one half of one FM channel, 91.5 MHz (the other half is identical to and symmetric about the main carrier). In this figure, notice how the L-R part of the audio winds up being about 15 dB below the level of the L+R part. This is an effect of nature (and can be described by Bessel functions and such, which are beyond the scope of this article). It explains why a tuner needs a stronger signal for clean stereo than it needs for clean mono. Put another way, it is why very weak, distant broadcasts which are noisy in stereo become much quieter when only the mono part is used (by pushing in the "mono" button). SCA broadcasts suffer in the same fashion.

I hope you enjoyed this trip into the Frequency Domain...if there's anything that needs explaining feel free to write. 73.

TIM McVEY 9906 El Dee Drive, Ellicott City, MD 21043

The column is starting to take shape again, although a number of regular reporters are still absent. The E skip season opened to mixed reviews as noted in this month's reports, but the mood seems optimistic.

New _____ New Mode _____ Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - @ _____ Unid Color Bars - % IHTP - ♀ Misc. Test Patterns - &

BN - Baja California Norte CH - Chihuahua NL - Nuevo Leon TA - Tamaulipas

John Ebeling, 9209 Vincent Avenue South, Bloomington, MN 55431

CDT

DX from Alborn (Prosit), Minnesota

As I sit writing this today at the cabin, I am wondering where the E skip is this year. Predictions were for a better season than last year, but so far, in my opinion, it has been a big bust, so little TV E skip to report.

| | | | |
|----------|---------------------|----------------------|-----------------------|
| May 1988 | 1 Es 1700 WCBD 2 SC | 1 Es 1708 WRAL 5 NC | 21 Es 1335 KIVQ 2 MT |
| | 1 Es 1705 WCIV 4 SC | 6 Es 2030 CFCN 4 AB | (Good ID and only Es |
| | 1706 WBTW 3 SC | (Ch 2 an Es mess) | noted - Was in 45 min |
| | (Through KDLH- 3) | 16 Es 1130 WDIQ 2 AL | with, at times, an |
| | | 1353 WBRZ 2 LA | excellent signal.) |

This morning (May 23), UHF tropes were up, had channel 22 KTCA translator (no ID given except KTCA) and a channel 16 KSTP translator with Alexandria, Minnesota ads on it.

(John, the channel 16 translator is of KSAX-42 and is located at Brainerd. I do not know of a channel 22 translator of KTCA. There is, in your neck of the woods, a new full service PBS outlet on channel 22 (KAWB, a satellite of KAWB) at Brainerd. fm)

William Eckberg, 1032 Sterling Road, Dixon, IL 61021

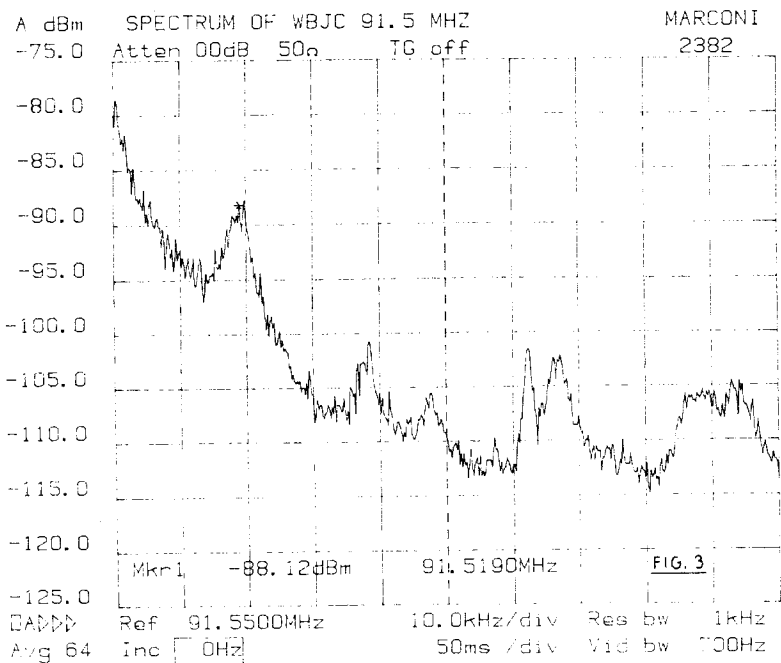
CDT

Equipment: 1966 Zenith b&w tube receiver ch 14N22, modified Zenith 175-1953 detented tuner. Channel Master 1110 VHF antenna. Channel Master 7 foot UHF parabolic antenna with Winegard PA4975 preamplifier on a 40' tower.

| | | |
|---------------------------|---------------------------|---------------------------|
| April 1988 | 18 Es 1230 KIII 3 TX 1072 | 27 Es 1900 KSL 5 UT 1139 |
| 7 tr 2200 K58BT 58 IA 61 | 1300 KNMZ 2 NM 972 | 2055 XHRIO 2 TA 1201 |
| (Davenport LPTV) | 1335 KRGV 5 TX 1189 | 2100 KPRC 2 TX 890 |
| 12 tr 0530 KOIA 15 IA 158 | 1400 KMLD 2 TX 967 | 28 Es 1150 KWGN 2 CO 811 |
| | KACB 3 TX 933 | 29 Es 2320 KTWQ 2 WY 849 |
| May 1988 | 21 Es 1610 XEFB 2 NL 1282 | 2350 KIDK 3 ID 1123 |
| 11 Es 0100 KNMZ 2 NM 972 | 23 Es 2240 KIDK 3 ID 1123 | 30 Es 0010 KIVQ 2 MT 968 |
| 0120 KWGN 2 CO 811 | 2300 KTWQ 2 WY 849 | 0050 KXLF 4 MT '151 |
| 1600 WFSB 3 CT 842 | 24 Es 0930 KMLD 2 TX 967 | 0125 KOUS 4 MT 925 |
| 15 tr 0033 WITK 29 IN 188 | 1000 KNMZ 2 NM 972 | 0135 WPBT 2 FL 1229 |
| Es 2030 WPBT 2 FL 1229 | 27 Es 1200 KMLD 2 TX 967 | 31 Es 1807 KIII 3 TX 1072 |
| 2045 WESH 2 FL 983 | 1225 KNAZ 2 AZ 1258 | 1815 KRGV 5 TX 1189 |
| 2110 KPRC 2 TX 890 | 1230 KENW 3 NM 912 | 1820 KGBT 4 TX 1183 |
| 2120 KNMZ 2 NM 972 | 1258 KNMZ 2 NM 972 | 1928 XEFB 2 NL 1282 |
| 16 Es 1525 KNMZ 2 NM 972 | 1900 KIII 3 TX 1072 | 2057 WPBT 2 FL 1229 |
| 18 Es 1230 KNAZ 2 AZ 1258 | KUTV 2 UT 1139 | 2200 WESH 2 FL 983 |

The new channel 58 in Davenport is very very weak at 61 miles. Many times I can only see sync bars. They are TBN and never identify. I saw a permit in Bill Fahber's column with the listed call. Determined signals origin by triangulation with help of Marvin Schultz. Lines from antenna headings cross in the Quad Cities area. I also saw new stations, channel 15, Ottumwa, Iowa and channel 29, Kokomo, Indiana. The latter is many times snow free at 188 miles. WITK-29 is a satellite of WITV-4. When first noted, they were testing at midnight.

The first E skip of the season was at 0100 on May 11. I saw indications of E skip nearly every day henceforth. It was about the best May for E skip ever seen with three rare late evening openings.



Equipment: Sylvania 12" black and white, quad loops cut for channels 2, 3, and 5 at 15 feet

| | | | | |
|------------|------------|-----------------------------|------------|------------------|
| May 1988 | 28 Es 1352 | KTVU 2 CA 565 | 29 Es 1012 | KDUHT 4 NE |
| 4 Es 2102 | 1418 | unid ch 3 NBC | 1023 | unid ch 3 ABC |
| 2130 | | (MUF down to 3) | 1041 | KPRY 4 SD 870 |
| 26 Es 1902 | 1549 | KPHO 5 AZ 915 | 1103 | unid channel 6 |
| 1908 | 1552 | KTVK 3 AZ 915 | 1111 | KDLT 5 SD 980 |
| 27 Es 1800 | 1729 | <u>KTVQ</u> 2 MT <u>485</u> | 1200 | KUSD 2 SD 1075 |
| 1844 | | (Short Hop!) | 1230 | KMTV 3 NE 1130 |
| 1948 | 1734 | KDLO 3 SD 1000 | 1251 | unid ch 2 CBS |
| 1953 | 1903 | unid ch 5 Mexico | 1908 | unids chs 2, 3 |
| 2015 | | XHBCT 3 BN | 30 Es 1035 | 2 unid ch 2's |
| 28 Es 1128 | 1914 | KVOA 4 AZ 1000 | 1104 | unid CBS,ABC ch3 |
| 1259 | 2000 | KNMZ 2 NM 945 | 1130 | KUSD 2 SD 1075 |
| 1300 | | KCBS 2 CA 790 | 2058 | unids chs 2,3 wk |
| | 29 Es 0953 | unids chs 2-5 | 31 Es 1959 | KENW 3 NM 1115 |
| | 0956 | KTVS 3 CO 845 | 2000 | KMID 2 TX 1280 |
| | | unid ch 4 ABC | | KDBCT 4 TX |
| 1309 | 0959 | KSNC 2 KS 1100 | 2100 | XEPMt 2 CH |
| 1335 | 1004 | unid ch 5 NBC | 2128 | KVOA 4 AZ 1000 |

I thought it was going to be a poor E skip season until the end of the month, when I got six straight days of it! That ties my record consecutive days of E skip set twice previously (unfortunately, no E skip today, June 1st, at least in the evening). And up to channel 6 twice already! It only got up to channel 6 a total of four times last summer! Hopefully, this is the start of a great summer of E skip.

P.S. - I'm going to try my best to make it to the convention this summer - is there an award for the person who comes from the farthest away?

Randy Miltier, 1068 Fairview Avenue, San Jose, CA 95125 PDT

Equipment: 1986 23" Mitsubishi, 12" b&w Zenith, Channel Master 1160 VHF/UHF antenna and Channel Master rotor. Fisher VCR.

Well it's great to be back in these pages. That means the TV-DX season has started. May has been a little slow here. Hopefully, June will bust things wide open. June of 1987 was my best month ever. CFAC-2 wins the "First TV-DX for 1988" award as they were in May 10.

As many of us know, 1988 and 1989 are supposed to be banner years for DX. From the June 1988 QST, one piece of evidence comes from a story carried in the New York Times quoting Dr. Patrick McIntosh, Director of Solar Physics Research at the Space Environmental Laboratory of the National Oceanic and Atmospheric Administration (NOAA), Boulder, Colorado. Dr. McIntosh was quoted as saying that this cycle may peak sooner than previously expected, possibly as early as the end of 1988 and that it may be the most intense since the advent of reliable record keeping in the mid 19th century. That would put Cycle 22 ahead of even the monumental Cycle 19, which occurred in the late 1950's. As good as the last peak in 1979 and 1980 was, it was considerably down from that of cycle 19

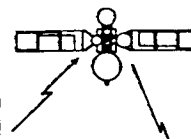
| | | | | | | |
|----------|------------|----------------|------------|----------------|----------------|---------------------|
| May 1988 | 10 Es 1200 | unid channel 2 | 23 Es 0905 | unid channel 3 | 27 Es 1930 | KENW 3 NM |
| | 12 Es 1233 | CFAC 2 AB | | 0907 | unid channel 4 | 1957 unid channel 4 |
| | 1235 | unid channel 3 | 24 Es 0900 | unids chs 2, 3 | 28 Es 1900 | unid channel 2 |
| | 23 Es 0900 | XEPMt 2 CH | 27 Es 1901 | KMID 2 TX | 29 Es 1900 | unid channel 2 |

Typical May stuff here - more skip than ID's. John Broomall, I enjoy your column!

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103 CDT

| | | | | |
|----------------------|------------|-------------------|-----------------------------|----------------|
| May 1988 | 15 Es 1930 | unid ch 2 ABC | 23 Es 2200 | KTBS 3 LA 990 |
| 7 tr 2245 | 16 Es 2005 | KFDX 3 TX 900 | | KJRH 2 OK 750 |
| (Alexandria KITT-29) | 17 Es 0027 | WCBD 2 SC 1310 | 2230 | KFDX 3 TX 900 |
| 2355 | 22 Es 2125 | XEPM 2 CH 1180 | 24 Es 2126 | unid channel 5 |
| (Brainerd KVR-15) | 23 tr 0055 | K40## 40 MN 145 | 27 Es (MUF 88.7 @ 1118- TX) | |
| 11 Es 0048 | | (Willmar KITT-29) | 1130 | KPRC 2 TX 1195 |
| 0051 | Es | (MUF 92.3 @2115) | 1200 | KBTX 3 TX 1120 |
| 1630 | 2126 | KYTV 3 MO 700 | 1259 | KPRC 2 TX 1195 |
| (From Halstad MN) | 2132 | unid ch 5 CBS | | |

(Continued in August)



SATELLITE NEWS

GEORGE W. JENSEN
 4604 Annapolis Avenue
 Baltimore, MD 21206-4220

Sorry for the lack of a column in the last issue, but I was in the process of recovering from a rather severe heart attack. So far I am not experiencing any really bad problems and should be in completely good health soon.

There are several changes which will be attended to in this column this month.

Home Shopping Club - Overnight is now on Satcom 4 XPDR 1 with the regular Home Shopping Club on Galaxy 3 XPDR 8.

A C T S has moved from Spacenet 1 XPDR 15 to Galaxy 3 XPDR 7

Request TV (Pay-Per-View) with VCII now also on Satcom 3 XPDR 19

Channel America (a new service which I believe has programmed to Small LPTV stations is now on Spacenet 2 XPDR 5.

Home Sports Entertainment will move from Satcom 3 XPDR 11 to Satcom 1 XPDR 10.

Cable TV and Appliance Network is now on Satcom 4 XPDR 12.

On Morelos I - XPDR 10 seems to not only be XHGC (Ch 5 - Mexico City) but a feed of that programming to XEX and another station in Las Lejes?

Pan-Am Sat is to be launched this month (June)

There has been video and audio on the new Spacenet 3 - nothing noted as yet on Ku.

Z-Channel - Los Angeles in on Satcom 3 XPDR 9 VCII

Kids Information Network (helping to locate missing children) is to locate on Satcom 1

You-TV out of Los Angeles WAS on Satcom 3 19, but is now Kaput.

Macho Channel is to locate on ?? when it premieres Feb. 1, 1989 will be VCII encoded and will be 24 hour service (Pay-Per-View) for men.

JISO feeds to Japan are now on Satcom 2 XPDR 21.

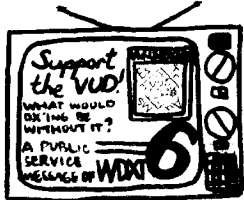
A new Intelsat was recently launched and will probably be around 53* W

That's all for now - hope to see you in 30.



NWS NEWS

JULY 1988



Matt Sittel
220 Brookfield Drive
Kingsport, TN 37663-9777
(615)239-9186
Deadline: 8/1/88 for
9/88 VUD

JULY 1988

JULY 1988

A LOOK AT WHAT'S NEWS FOLLOWS THE WEATHER: Just when it looked like summer was here to stay a cold front came through and really changed the weather. After 2 days of 91° highs yesterday brought us a high of just 67°! It also brought us over 3/4 inch of rain. That certainly helped the drought somewhat. I know many areas of the US are in a severe drought situation also. DX appears not to be in a drought, as I've now received 7 straight days of TV Es! Let's hope it continues! Now on to NWS NEWS.....

First, though, what do you think of the new print? I got a typewriter as a graduation gift from my parents, and I hope the print is acceptable for you, the reader. If not, well, I could always use the script wheel for this column and type in cursive! I like this print, so I hope you do, too.

Greg Coniglio, 5100 Glenwood Drive, Williamsville, NY 14221

Over Easter I vacationed in Myrtle Beach, South Carolina (actually about 10 miles north of Myrtle Beach). Here is a bandscan for the following route:

I-90 Buffalo, NY to Erie, PA SC 34 to Lugoff, SC
I-79 to Sutton, WV I-20 to Florence, SC
US 19 to Beckley, WV US 501 to Myrtle Beach, SC
I-77 to Ridgeway, SC

EQUIPMENT FOR WHOLE REPORT: Realistic 12-151A Weatheradio
KEB-98 .550 Buffalo, NY WXL-60 .475 Roanoke, VA
KEC-58 .400 Erie, PA unID .400 (see comments)
KHB-59 .550 Cleveland, OH WXL-42 .550 Winston-Salem, NC
KDO-94 .400 Akron, OH WXL-70 .475 Charlotte, NC
KIH-35 .550 Pittsburgh, PA WXL-56 .400 Asheville, NC
WXJ-85 .550 Clarksburg, WV WXJ-21 .550 Greenville, SC
WXM-74 .450 Sutton, WV WXJ-20 .400 Columbia, SC
WXJ-84 .400 Charleston, WV WXJ-22 .550 Florence, SC
WXM-71 .500 Beckley, WV KEC-95 .400 Myrtle Beach, SC

Here is a DX report from Myrtle Beach, SC:

4/5 tr 4/6 tr
0930 KHB-29 SC Charleston(.550) 95 0652 KIG-77 NC Cape Hatteras(.475) 213?
0931 KEC-84 NC New Bern(.400) 140 (also in at 1650)
(over local station) 0655 WXJ-70 FL Melbourne(.550)(tent.) 415
(see comments)
2057 KHB-31 NC Wilmington(.550) 60
2227 WXJ-22 SC Florence(.550) 65

Where is the Cape Hatteras weather station, exactly? (35°16'N, 75°33'W; coordinates look like they're close to it. Bill Burrows says they mention Buxton as their xmtng site, which is very near Cape Hatteras.-mcs) The tentative Melbourne had a special wx statement relay from Daytona Beach NWS about dense fog in North Central Florida. I'm sure this was connected to the tropo. I don't think it was Jacksonville; wouldn't they have their own special wx statement?(I'd think so-mcs) Plus, wouldn't they be just "North Florida"?

The unID 162.4 in the southwest Virginia area had a wide range of city temps, from Baltimore to Nashville. It gave more specific info(wind, barometer, etc.)for Roanoke. The forecast mentioned cities such as Galax and Hillsville. Could this be a new station, or maybe I had it on the wrong switch, and it was 162.55 Lynchburg or 162.475 Roanoke? (Galax and Hillsville are mentioned in Roanoke's forecast, so my first guess would have to be overspill from 162.475 Roanoke. The weatheradio you used is the same one I have used through there, and getting one station on all three frequencies happens near NWS stations frequently. But if you were on I-77 you didn't get much within 60 miles anywhere on the road. Roanoke is definitely audible on I-77, and rather strong in spots. I don't know of any xlters other than the Lynchburg one, so I'd guess it was spilling over from 162.475, but at 60 or so miles that's one strong signal to be spilling over!-mcs)

Back home....

-May 6th brought a strong tropo to Erie, with KEC-58 162.400 at its loudest signal level ever.

-Local KEB-98 has been running promos to increase the popularity of weatheradio. It urges listeners to spread the word, and suggests a weatheradio as a gift. It is a great idea to try and spread the word about this extremely useful radio service.(Absolutely!-mcs) (Around Christmas those kinds of messages are quite frequent, some NWS's even wish their listeners a happy holiday season!-mcs)

-On May 24, I took another trip to Niagara-on-the-Lake, NY, in extreme northwest New York-

NWS NEWS

-page 2-

JULY 1988

I walked right up to the lake shore(I even got my feet wet!)(Every couple of feet closer to Toronto helps,hi!-mcs) with my weatheradio and tried for XMJ-225 Toronto. KEB-98 162.55 was not a problem; they were barely in. I could even CLEARLY see the CN Tower (where XMJ-225 is), along with all the other Toronto buildings. It's only about 30 miles across the lake. I was in "line-of-sight", and still could get either nothing or almost that out of them. They were fair to strong, however, on a hill about 1/2 mile inland. 73s Greg
John F. Combs, 1308 Willow Branch #24, Jacksonville, FL 32205

NWS stations monitored during this year's camping trip to Black Rock Mountain State Park,

GA:
162.400 WXX-56 Athens, GA 57 162.550 WXJ-21 Greenville, SC 56
162.425 WXM-88 Waynesboro, GA 145 WXX-54 Augusta, GA 130
162.475 WXX-71 Macon, GA 146 KEC-80 Atlanta, GA 87
WXX-75 Waycross, GA 258 KHB-29 Charleston, SC 251
WXJ-23 Beaufort, SC 161
162.500 WXM-79 Valdosta, GA 277 WXX-56 and WXJ-21 audible under normal conditions,
162.525 WXM-65 Baxley, GA 214 but WXJ-21 easily overridden during tropo. 73, John

Matt Sittel, aka "NWS NEWS Editor"

Nothing to report during April or May. On June 2 I think I had Hazard, KY, KIH-40, on .475. It was quite foggy, so that might have played a part in it. I had 96.1 filled with Charleston, SC and Atlanta, and an unID 2 ABC at west(Nashville?) May have been kind of a widespread fog over the southeast. But, since it didn't completely overtake Knoxville NWS I'm not sure.

In upcoming DXpeditions, after my college orientation in Raleigh my parents and I will be going out to the outer banks, they in search of relaxation and I in search of those coastal tropics! Also I'll be looking for the same kind of great reception that Greg found in Myrtle Beach. I'll be DXing NWS, FM, and TV, so hopefully I'll have lots to report! Also, school at NC State starts August 29th, so use the current address for the September column, but by the time you get the September VUD you'll be needing to send reports to my new address in Raleigh. Hopefully by the time I'm typing up the September column I'll know my new address.

But use my current address for the September NWS NEWS column.

OTHER NWS NOTES: In the articles department, John Ebeling sent an article from the May 2nd Duluth News-Tribune about buoys in Lake Superior, which mentioned that the National Weather Service has three buoys in the middle of Lake Superior where they collect atmospheric data. Someone (I can't remember who-if you sent it, thank you very much and I'm sorry I forgot that you sent it!) sent an article from the March 1988 issue of Popular Communications entitled "VHF Aero-Band Weather Broadcasts" that lists all the frequencies that the FAA uses to transmit weather information. The facilities used are known as Automatic Terminal Information Service(ATIS), and are repeating recorded broadcasts in areas of high activity. Some especially busy airports may actually have several ATIS transmitters, although airports that are not busy or open during limited hours may have an ATIS facility that operates only during certain hours. In addition to weather conditions, other information useful to arriving or departing pilots is also provided, including altimeter settings, general runway conditions, temporary situations at the airport that require special attention, etc. I've heard only two of those, our local Tri-City Airport one at 118.25 MHz, and in Knoxville I heard the McGhee-Tyson Airport one at 128.35 MHz, which, according to the article, broadcasts from 1200-0400 daily. Both of those start out "(airport) information". Here's what my local one says right now as I'm typing this: "Tri-City Airport Information Lima 1859 weather, 3500 scattered, visibility 7, temperature 64, dew point 46, wind 360 at 8, altimeter 3013, MVP(I'm not sure about those letters) and visual approach runway 5 in use, taxi vehicle aircraft advise ground patrol on initial contact, initial outbound heading, requested altitude, and position on the field. Notice to airmen: runway aisle section runway 5 ILS out of service. All aircraft on initial contact advise you have Lima." Has anyone ever caught any of those via Es? They might be a good tipoff to an MUF in excess of 108 MHz, on its way to the 2 meter band, NWS, and high-band TV! Danny Buntin sent in an article about large hail that hit the area, from the June 3rd Stillwater News Press. It had a picture of the hail actually falling on cars, about the size of golf balls. Fortunately, there wasn't any damage at Danny's location. It also included a story about the tower at KTVO-TV 3 in Kirksville, MO that collapsed and unfortunately killed two workers, and another was reported missing. The tower was 2,000 feet tall, it said, and when it was built increased KTVO's potential audience from 40,000 households to 120,000 households. They planned to go back on the air after the June 2nd collapse on the 4th or 5th of June using their old tower near Lancaster. The larger tower that collapsed was located in Colony. States were not mentioned on those cities, so I would assume they are in Missouri.

Thanks to all who sent in articles this time, I always appreciate them and enjoy reading them, and I'll try to use them in upcoming columns of NWS NEWS.

Severe weather has been quite frequent in the Carolinas so far this year. I had only heard 2 emergency action notifications before this year, one about a tornado watch and the other a winter storm warning. Now I've heard 9 EBS emergencies, and seen 1 on TV. WBCY-107.9 heads the network, as they told me one day. They start with a tone, then tell other stations in the network to join in. Does anyone have any on tape? I'd be glad to trade them, those and NWS warning alarm messages. NEXT TIME: The Outer Banks DX report, hopefully, if the atmosphere permits some NWS DX (especially Es-anyone ever heard NWS MS or Au or trs?) and hopefully something in NWS NEWS from you! Happy DXing!

73's, Matt

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, Ok 74075

SOUTHERN FM DX

JULY 1988

DEADLINE: 10th

THE HORSE OF A DIFFERENT COLOR IS OUT OF THE STARTING GATE
('88 skip season gets well under way)

MORE ON THE ONKYO T9090II

Gus Mancuso, 5615 Inwood, Cheverly, MD 20785

I agree that better equipt. would increase reception, but not that much, more help on skip catches than tropes, I suspect. Aside from dial crowding, other problem is 1) mountains to west a)less stations there b)cuts off every thing from other side. 2)Ocean 120 mi. east(not stations there!) This leaves only two narrow "troughs"--one south and one north-east. Biggest plus, of course, is a.m. enhancement off of bay. Would say minuses out weigh pluses. Whiteville, NC 99.1 at 350 miles comes in easily sunrise. After midnight when lol: WHFS signs off though, NJ & VA stations are dominant. Have picked up Boston 89.7 & Long Island 97.3 in other direction. Would rather spend money on vacation trips to do bandscans. (Sorry I had you print all that jazz on Ohio trip. Girlfriend thought it was crazy so we compromised on closer NJ site.) Agree that Presidio, TX would be good spot, but to me E-skip reception is a horse of a different color, not "real" FM reception, is more like AM or SW where you pick up reception not indigenous to area. Can't see traveling long way for chance of E-skip;"bird in hand worth two...". Last point: About NYC DX w/Onkyo rec., his ranting about getting CT & Phil. adjacents is very deceptive. Most NYC FMs are on reduced power due to super ant. height, reducing adj. channel int. For local listener, right? Yes!. Most DC-Balt. 50 kw. [Deceptive? Wrong! What a groundless assertion. Actually, the DC stations and the NYC stations have close to the same primary coverage areas. Therefore there should be no significant differences in signal strength between the stations.DB]

The May Stereophile did a test report on the Onkyo T9090. It was remarkable how closely the report's comments followed those of Eric Fader's from last month's SFM, such as the T9090 being more difficult to manual tune, noisier on weak signals and more selective. Here are some notes from the report's conclusion:

"Without a doubt, Onkyo has bettered the former T9090 by 10-15 db additional adjacent channel selectivity. Other characteristics are nearly equal between the two vintages. Its nearest competition is the Denon TU-800(\$475). At low and mid-dial frequencies, the Denon exhibited 5 db more adjacent channel selectivity--enough to make the difference between splatter and no splatter from strong adjacent stations. On the high end of the dial, the Onkyo has the selectivity edge. Example: I was able to receive a 30-37dbf signal at 107.1 MHz next to and 80dbf signal at 106.9MHz in stereo better than with any tuner tested to date. On the other hand, the Denon TU-800 sliced signals better at 95.9 vs a stronger 95.7, and the Citation 23 was the only tuner ever tested that received a station at 92.7 vs a stronger signal at 92.5. The T-9090II has quieter weak signal stereo reception than the two mentioned tuners. Despite my nitpicking, Onkyo has done its job fairly well. The T9090II gets stations clearly that are hopeless splatter on most other tuners. A tuner to be recommended on an equal footing with the Denon TU-800." (Sens.mono: 10.3 vs 8.8dbf for T9090.)

Keith D. Fugh, 227 Martin St., New Hope, AL

Equipt: Onkyo T9090, Stereo Probe 9 at 30'

5/7 tr (while WLRH off)
0820 WFLP 89.3 KY Louisville, j, ID
5/16 Es
2359 KGRB 88.5 MN Bemidji, c, ID 998
5/17 Es
1008 KILot 93.9 CO CO Springs
1057 XHSC 99.9 CL Piedras Negras, city ID
1059 KRSJ 100.5 CO Durango, ID
1117 XHPLT 99.7 CL Ciudad Acuna, L
1119 KTDR 96.3 TX Del Rio, r, ID 900
1122 KOLA 94.3 TX Del Rio, r, ads
1131 KRVL 94.3 TX Kerrville, k, ID
1220 XHRP 94.7 CL Saltillo, "Stereo 94"
1311 KTQM 99.9 NM Clovis, ID 950
1324 KYXX 94.3 TX Ozona, ads
1332 KTEO 93.9 TX San Angelo, ID, k 840
1334 KALP 92.7 TX Alpine, k, ID
1335 KBIL 92.9 TX San Angelo, r, ads
1337 KXYX 94.7 TX San Angelo, "Kixy FM"
1339 KGKL 97.5 TX San Angelo, k, ID

5/17 Es
1340 KODM 97.9 TX Odessa, ads
1347 KNFM 92.3 TX Midland, k, ID 925
1348 KBAT 93.3 TX Midland, "Rock 93, "The Bat"
1350 KPTX 98.3 TX Pecos, r, ID
1429 KWBI 91.1 CO Morrison, ID
5/27 Es
1140 KSPZ 92.9 CO CO Springs, ads, "293"
1150 KUNC 91.5 CO Greeley, ID 1080
1154 KBCO 97.3 CO Boulder, rp, ID 1085
1203 KCSU 90.5 CO Fort Collins, "CC State U"
1224 KUWR 91.9 WY Laramie, ID 1130
5/29 Es
1039 KAMZ 93.1 TX El Paso, "93-Z"
1100 KTEP 88.5 TX El Paso, ID 1160
1109 KWMJ 103.3 TX Midland, ad
1112 KTEO 93.9 TX San Angelo, k, ID
ms
1255 ALTT 94.7 MD Bethesda, "Washington's
lite rock station" 602

Matt Sittel, 220 Brookfield Dr., Kingsport, TN 37663

5/24 trs
1548 WVOW 101.9 WV Logan, ads 104
5/7 ms 783
1306 KIOC 106.1 TX Orange, K106,32 sec.burst
5/11 Es
1609 CBN 96.1 CN North Bay 699
1623 GBAF19 92.3 NS Halifax 1116
1628 WZOU 94.5 MA Boston(state #32) 747
5/22 tr/trs?
1022 WRZL 107.5 NC Winston-Salem 130
5/27 Es
2020 KBAT 93.3 TX Midland, ads, r 1174
5/31 Es
1808 KITY 92.9 TX San Antonio, calls 1053
1840 KTSR 92.1 TX College Station,Star 92
1842 KPTS 93.3 TX Killeen, B93 948
1846 KSJT 107.5 TX San Angelo 1088
1849 KSTV 105.7 TX Stephenville, ads 941
1859 KTN 106.3 TX Belton, Q106, ID 937
1900 KSAQ 96.1 TX San Antonio, ID 1053
5/31 Es
1902 KTDR 96.3 TX Del Rio 1174
1919 KBAT 93.3 TX Midland, calls, "The Bat" 1174
1926 KZEP 104.5 TX San Antonio, calls 1053
1935 KFAN 101.1 TX Fredericksburg 1040
1935 KBUC 107.5 TX San Antonio, k-Buck 1053
1940 KSMC 105.3 TX Seguin, Magic 105 1017
1953 KTFM 102.7 TX San Antonio 1053
2002 KVRP 95.5 TX Haskell, ID 1008
2007 KWCB 94.3 TX Floresville, BE, ID, ss mx
2025 KBNL 89.9 TX Laredo 1182
2035 KISJ 104.1 TX Brownwood,104.1 kiss FM 999
2050 KZFM 95.5 TX Corpus Christi, 295 1055
2054 KRYS 99.1 TX Corpus Christi, calls 1055
2059 XHAAA 93.1 TA Reynosa 1184
2101 KBFM 104.1 TX Edinburg, ID 1167
2104 KIWW 96.1 TX Harlingen 1166
2106 XHRR 102.5 TA Reynosa 1184
2107 KVLY 107.9 TX Edinburg, b 1167
2107 KELT 94.5 TX Harlingen 1166
2118 KIIM 105.5 TX Mission, address 1179

E-skip is back on FM. 5/31 brought in a weak but varied opening, and 5/27 just barely climbed into FM. Then 5/31 was the first solid FM of the year. The MUF climbed in and out of FM until just after 2300 when it faded out. I hope E-skip is great where you are! 73's.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74075

Equipt.: Onkyo T9090, Channel Master Stereo Probe 9 now at 30' and new Gemini rotor

5/13 Es
2024 KIMY 93.5 OK Watonga, k
5/14 Es
2000 KRPS 89.9 KS Pittsburg, ID, \$ 140
2158 KPHN 94.5 AR Barling, ID, g, \$ 170
5/27 Es/tr
0024 KMKT 104.9 TX Denison, ID
0028 KZEX 104.9 OK McAlister, s/off
5/30 Es
2010 K292DX 106.3 OK Hennessy, g 42
5/31 Es
1800 WKXZ 92.7 GA Dublin
1801 WEAS 93.1 GA Savannah 970
1811 WAPB 95.1 FL Jacksonville,Power 95
1815 WHGJ 88.5 GA Savannah
1822 WCRJ 107.3 FL Jacksonville
1828 WDAX 95.3 GA McRae
1830 WSTI 105.3 GA Quitman, ad
1834 WZLS 96.7 GA Valdosta 900
1837 WWSA 92.3 FL Orlando 1070
1840 WUSA 100.7 FL Jacksonville 990
1842 WJYO 107.7 FL Mt. Dora,Joy 105 1050
1851 WMMZ 90.7 FL Coala 1010
1856 WHGS 93.3 FL Haines City, g
"Heartland's Gospel Station"
1859 WWOJ 91.1 FL Lakeland, ID, g
1901 WJIS 88.1 FL Bradenton
1905 WSRZ 106.3 FL Sarasota, ID 1060
1912 WWSA 107.3 FL St. Petersburg
1919 WQEZ 99.3 FL Ft. Meyers Beach
5/31 Es
1937 WAYJ 88.7 FL Ft. Meyers, Way FM 1130
2000 WAVV 101.1 FL Marco, Wave 101 1150
2006 WINF 96.9 FL Ft. Meyers, Wink FM, r 1130
2103 WMNF 88.5 FL Tampa, ID 1040
tr
2150 KUAR 89.1 AR Little Rock, c 290
Es
2200 WNCU 89.7 FL Miami, ID 1255
5/5 Es
1843 WSRZ 106.3 FL Sarasota, ad 1060
1846 WSHE 103.5 FL Ft. Lauderdale, ad 1230
1854 WAXY 105.9 FL Ft. Lauderdale, Waxy FM
1857 WOOJ 107.1 FL Lehigh Acres, ID
1859 WNYJ 94.3 FL Riviera Beach, ID
1900 WAFY 106.3 FL Glawiston, ID
1903 WQLM 92.7 FL Punta Gorda
1913 WRCC 103.9 FL Cape Coral
1914 WHYI 100.7 FL Ft. Lauderdale, I-100
1919 WCTR 97.1 FL Miami, ad, 97CTR 1255
1933 WCKO 98.3 FL Arcadia, Ok 100
6/9 Es
0855 WMSJ 92.7 MD Prince Frederick
0859 WAMU 88.5 DC Washington 1105
0901 WBSM 91.3 MD Princess Anne
0904 WFLS 93.3 VA Fredericksburg,party line
1000 WPFW 89.3 DC Washington, ID, j
1009 WETA 90.9 DC Washington, wx
2045 WROC 102.9 MD Cumberland, k
2052 WRVQ 94.5 VA Richmond, ID
2058 WJQI 94.9 VA Virginia Beach, Joy 95

So it looks like the Es season is proceeding along reasonably well, though I get tired of hearing from Florida so much, still fun, anyway, for picking through to the ones that were not logged before, even if new to the air. Raising the antenna 10' improved the strength of the majority of the semi-locals by 5 to 10 dbs while a large minority were upped by only 2 or 3 dbs. Surprisingly, enough, the 4 locals stayed about the same. The new Gemini rotor is nice for being totally silent at the control box, though I had been used to the old one making a click to signal end of rotation. Now it's just a red light going off. My old Archerrotor is for sale at \$25. 73.

Please report to Southern FM DX if you are from AL, AR, AZ, GA, CO, DE, FL, GA, KS, KY, LA, MD, MO, NC, NM, MS, NV, Ok, SC, TN, UT, VA & WV. Also DC. Report Today.

Television news

Bill Fabber, editor
336 Atlantic Street
Bridgeton NJ 08302

ABBREVIATIONS USED IN THIS COLUMN:

| | |
|------|---|
| AAT | Antenna height above average terrain |
| AG | Antenna height above ground |
| ASL | Antenna height above sea level |
| AZ | Azimuth (North=0°) |
| BT | Beam Tilt |
| CIR | Circular polarization |
| CP | Construction permit |
| CRTC | Canadian Radio-Television and Telecommunications Commission |
| DA | Directional antenna |
| ELL | Elliptical polarization |
| ERP | Effective Radiated Power |
| FCC | Federal Communications Commission (USA) |
| HOR | measured along a horizontal plane |
| MAX | In the direction or elevation of maximum signal strength |
| MP | Construction permit modification |
| TL | Transmitter or tower location |
| + | carrier frequency offset 10 kHz above standard |
| - | carrier frequency offset 10 kHz below standard |
| Z | carrier frequency not offset |

APPLICATIONS FOR NEW TELEVISION STATIONS

| ST | CH | ERP | HAAT | CITY/APPLICANT |
|----|----|------|------|---|
| LA | 20 | 5000 | 902 | New Orleans; Cajun Broad'ing Co. |
| LA | 20 | 5000 | 897 | New Orleans; Crescent City Broadcasting Corp. |
| LA | 20 | 5000 | 906 | New Orleans; Delta Broadcasting of Louisiana Ltd. |
| LA | 20 | 5000 | 902 | New Orleans; Traci Lewis, limited partnership |
| LA | 20 | 5000 | 896 | New Orleans; Tucker Broadcasting Company, limited partnership |
| MA | 48 | 1000 | 1306 | Worcester; Worcester Educational Corporation (amended) |
| OR | 28 | 391 | 911 | Eugene; Oregon Commission on Public Broadcasting |
| VT | 44 | 5000 | 1995 | Burlington; Burlington 44 Company (amended) |
| VT | 44 | 5000 | 1739 | Burlington; Nichols Broadcasting Corporation (amended) |
| VT | 44 | 5000 | 1801 | Burlington; WCQV Inc. |

APPLICATIONS DISMISSED

| | |
|----|--|
| AL | Dothan; ch.60; Kimberly Broadcasting Ltd. |
| MA | Worcester; ch.48; Worcester Educational Corporation. |
| MN | St. James; ch.32; Hubbard Broadcasting Inc. |
| NC | Kannapolis; ch.64; Community Action Communications Inc. (NOT Kannapolis TV Co., as was mentioned last month. By settlement agreement, Community Action allowed its application to be dismissed.) |
| PA | Scranton; ch.64; Robin C. Brandt. |
| SC | Sumter; ch.63; Gerald J. Robinson. |
| WA | Walla Walla; ch.14; Trident Broadcasting Inc. |
| WI | Fond du Lac; ch.68; Church of Christ Ministry Inc. |

CONSTRUCTION PERMITS GRANTED

| ST | CH | ERP | HAAT | CITY/APPLICANT |
|----|----|------|------|--|
| NC | 64 | 152 | 1372 | Kannapolis; Kannapolis TV Company, joint venture |
| PA | 64 | 5000 | 977 | Scranton; Ehrhardt Broadcasting |
| WI | 68 | 5000 | 1660 | Fond du Lac; Skycom Inc. |

CONSTRUCTION PERMITS CANCELLED

| ST | CH | CALLS | CITY | REASON |
|----|----|---------|---------------|--------|
| AR | 25 | KVTN | Pine Bluff | |
| CA | 62 | KGG8 | Santa Rosa | |
| GA | 33 | WTKV | Valdosta | |
| ID | 20 | KMCV | Idaho Falls | |
| KY | 51 | WEKT-TV | Pikeville | |
| MN | 26 | KXBJ | Benidji | |
| MO | 22 | KMPF | St. Joseph | |
| MT | 23 | KGCL | Missoula | |
| NM | 19 | KCJA | Santa Fe | |
| OH | 55 | WEYE | Hillsboro | |
| PA | 29 | WXEK | State College | |
| SD | 21 | KXRC | Rapid City | |
| TX | 30 | KLMH | Odessa | |
| WI | 39 | WWTL | Marshfield | |
| WI | 22 | WTAH | Oshkosh | |

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

| ST | CH | ERP | HAAT | CALLS | CITY |
|----|----|------|------|---------|-------------------|
| FL | 69 | 5000 | 866 | WYHS | Hollywood |
| IN | 63 | 1838 | 1077 | WILB | Bloomington |
| TX | 15 | 147 | 210 | KSUZ-TV | Abilene (amended) |
| TX | 16 | 5000 | 469 | K... | Lubbock |
| VA | 41 | 251 | 1156 | WHTJ | Charlottesville |

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

| ST | CH | ERP | HAAT | CALLS | CITY |
|----|----|------|------|-------|------------|
| AR | 25 | 4368 | 596 | KVTN | Pine Bluff |
| MI | 5 | 100 | 423 | WHTA | Calumet |
| PR | 68 | 89.1 | 1949 | WVSN | Humacao |
| TX | 52 | 2619 | 1076 | KFWD | Fort Worth |

APPLICATIONS TO CHANGE EXISTING FACILITIES

| ST | CH | ERP | HAAT | CALLS | CITY |
|----|----|------|------|---------|------------|
| FL | 33 | 1191 | 1365 | WHBR | Pensacola |
| WV | 33 | 2360 | 1666 | WPBY-TV | Huntington |

CHANGES GRANTED STATIONS ON THE AIR

| | |
|----|---|
| AL | Montgomery; WMCF-TV, ch.45; granted CP to raise ERP from 250 kw max to 600 kw max; 1011' AAT/1038' AG/1218' ASL (reduced 705' ASL); coordinates 32°24'11" N, 81°48' (about 1.3 miles NNE of present TL); I suspect the reduction in height will just about counterfit increased ERP for its regular coverage area, but as far as DX, I would expect the height reduction to outweigh the power increase and make DX harder. |
| AZ | Phoenix; KTSP-TV, ch. 0; granted CP to raise antenna height to 1829' AAT/328' AG/3001' ASL (129' higher AAT, 64' higher AG, and 96' higher ASL; not bad for same TL). |
| CA | Los Angeles; KTLA, ch.5; granted MP to reduce ERP |

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CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS

| | |
|----|--|
| CA | Yosemite Valley; add 41z |
| CO | Grand Junction; add 11+ |
| MA | Boston; change 4- to 4+ (to make way for new assignment in Utica NY; WBZ-TV will eventually have to change offset) |
| NM | Albuquerque; add 50z |
| NY | Buffalo; change 4- to 4z (to make way for new assignment in Utica NY; WIVB-TV will eventually have to change offset) |
| NY | Ilium; add 67- (site restriction 8.6 miles southeast to avoid short-spacing to vacant *59 in Utica NY) |
| NY | Utica; add 4- (site restriction 13.4 miles east of Utica to avoid short-spacing to WSTM-TV, ch.3, Syracuse NY) |
| TX | Bryan; delete *15- (channel being reallocated to College Station) |
| TX | College Station; add *15- (to conform to use of the channel by KAMU-TV, College Station); add 50- |

CONSOLIDATED HEARINGS

| | |
|----|---|
| CA | Merced; ch. 51; Media Investment Corporation; Wade Axell. IFR 4/20/88 |
| FL | Fort Walton Beach; ch. 58; Jerome Swan; Clement S. Ross. |
| IL | Chicago; ch. 2; CBS Inc. (for license renewal of WBBM-TV); Center City Communications Limited Partnership. |
| IN | Salem; ch. 58; J.R. Broadcasting; James T. Ledford; Family Group Broadcasting Ltd. |
| IA | Newton; ch. 39; Robin C. Brandt; Newton Broadcasting Company. |
| LA | Columbia; ch. 11; Woods Communications Group Inc.; William L. Cook III; Love Television Partnership; Columbia TV and Radio Inc.; Pears Broadcasting Inc.; Jimmie V. Giles; Caldwell Broadcasting Ltd. Partnership; Richard William Wainwright; KTVE Inc.; Lanford Telecasting Co. |
| MI | Marquette; ch. 19; Turner Broadcasting and Communications System; Marquette Television Associates; Skyway Television Ltd.; Upper Peninsula Telecasting Corporation. |
| MO | St. Louis; ch. 4; Viacom Broadcasting of Missouri (for license renewal of KMOV-TV); Mark L. Wodlinger. Note that the FCC does not acknowledge the "-TV" suffix to KMOV's call sign in this document from the Federal Register. |
| NY | Corning; ch. 48; Coyle Communications; Rural New York Broadcasting. |
| OK | Lawton; ch. 45; Day Broadcasting; Barton W. Ratliff. |
| UT | St. George; ch. 12; KUTV Inc.; Red Mountain Broadcasting Company. |
| VA | Danville; ch. 44; Froggy Bottom Television; Freeman Bornreger; AW Broadcasting. |
| WI | Fond du Lac; ch. 68; Church of Christ Ministry Inc.; Skycom Inc. |

CALL LETTER APPLICATIONS: NEW STATIONS

| ST | CH | CALLS | CITY/APPLICANT |
|----|----|-------|------------------------------------|
| CO | 20 | KTVD | Denver; KTZO-TV |
| FL | 25 | WPBF | Tequesta; Tequesta Television Inc. |

CALL LETTER GRANTS: NEW STATIONS

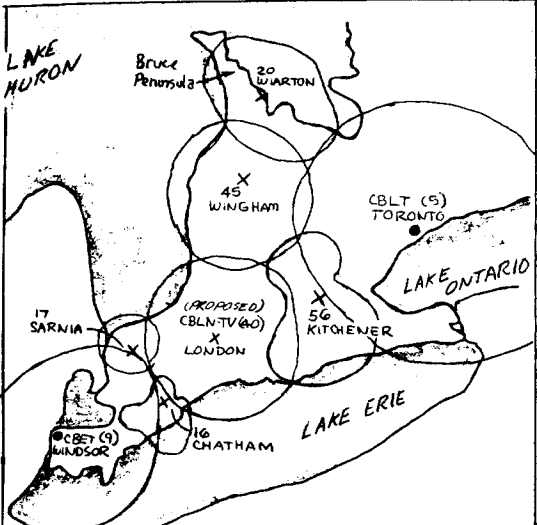
| ST | CH | CALLS | CITY/APPLICANT |
|----|----|---------|---|
| CO | 20 | KTVD | Denver; KTZO-TV |
| FL | 28 | WPGX | Panama City; WDGH |
| GA | 21 | WBSG-TV | Brunswick; Coastal Com Inc. |
| HI | 3 | KHLU | Lihue; Lavon Nicholson |
| HI | 15 | KOGG | Wailuku; King Broadcasting Co. |
| SD | 15 | KCLO-TV | Rapid City; KBLO-TV |
| SD | 36 | KFXT-TV | Sioux Falls; Kirkwood Broadcasting |
| TN | 42 | WSDA | Nashville; Three Angels Broadcasting Network of Tennessee |
| TX | 47 | KXVI-TV | Greenville; Bill Richard Wright |
| VA | 24 | WPAJ | Danville; Danville Communications |

CALL LETTER GRANTS: EXISTING STATIONS

| ST | CH | CALLS | CITY/APPLICANT |
|----|----|---------|--------------------|
| FL | 43 | WBSF | Melbourne; WMOD |
| NH | 50 | WQNH | Derry; WNDS |
| NC | 36 | WPCQ | Charlotte; WPCQ-TV |
| OR | 22 | KBSP-TV | Salem; KHSP |

FORUM CANADA

Canadian news from ROBERT ROSS (London, Ontario). There hasn't been too much Canadian news lately, so I haven't been separating Canadian and U.S. news into different headings. But this article from the 6/4 London Free Press reports on some major changes in Ontario. It's three months till CPFL-TV/CKNX-TV (London and Wingham, Ont. - wbf) sever the longtime regional CBC



affiliation, but the first waves from the move are already being felt. CBC's French service, Radio-Canada, switched this week from Ch. 40 to Ch. 53. The CBC English, CBLN-TV, signal in the London area, will take over Ch. 40. In the Wingham area, CBC transmissions will be on Ch. 45. And the 'name' of the new CBC signal, CBLN-TV, is another unfamiliar aspect viewers will have to become accustomed to."

"Dan Goodwin, CBC Ontario regional director, was involved in CBC's strategic planning for the negotiations that led to CFPL/CKNX's disaffiliation. Once the key is turned in September, he will be given the CBC's broadcasting facility to run. He said the financially-pinched CBC is unable to establish a separate full-service station in London. But given his druthers, it would have been done years ago."

"CBC transmissions to this region will be on the UHF band rather than the VHF band. The CRIC ruled that CFPL and CKNX 'own' the frequencies they have traditionally used, forcing the CBC to go high up the dial."

"Contrary to some people's understanding, TV transmissions don't go out over a nice circular area like ripples in a pool and the CBC has had to provide six transmitters to replace those of CFPL/CKNX. In fact, up the Bruce Peninsula, more people should be able to receive CBC than before, because of the new pattern's shape," Goodwin added. CBLN's principal transmitter is just east of Strathroy, where the corporation's Ch. 40 will be beamed from the existing TVOntario tower along with its French and radio transmissions. The other five transmitters will be each designated CBLN plus a number. Wingham's replacement will be at Ch. 45, from its tower about five kilometres northeast of Teeswater. Coverage of the Bruce Peninsula, from a CBLN transmitter east of Warton, will come in on Ch. 20. From just south of Sarnia, CBLN will be broadcast on Ch. 17, while in what Goodwin called "a funny blobby pattern around Chatham," the CBC signal will be on Ch. 16. Finally, hooking on to a Global-TV transmitter near Paris, CBC will serve the Kitchener-Brantford area in a figure-eight pattern at Ch. 56."

ANDY REID (Peterborough, Ontario) writes, "Peterborough's channel 27 Global has been delayed apparently due to some screw up with the tower design. The thing was half built one nice day in May and they had to take it down and back to the factory! I am keeping a close eye on the site though (even filming video of it!) The shaft is built and much of the equipment is in place but not the transmitter. I keep hearing rumours that Global will still use the 22 transmitter from Uxbridge but others say that the Uxbridge unit will be shipped to Windsor and we will get a new one. What ever the case, the tower is not expected to go until later June or July. It will be my luck that the thing will be put up, 22 goes off and 27 goes on while I'm on holidays! Talking to the F.C.E. at CFMX-FM (they are co-siting the tower) will be 500ft/152m."

"Incidentally when will the next database be printed?" Probably in time for the 1989 DX season. Firstly I wouldn't expect that much of a demand for an annual publication. The first TVDB was popular mainly because the last TV Station Guide was six years old. Secondly, using Multiplan was a big mistake, and I'm redoing it on Fontmaster 128. Instead of updating two lists (a personal list contains more data, notes and references), I update only one, then edit it when I'm ready to publish. Thirdly, I plan to include maps, which I can't start until I complete my station list. I'm entertaining the thought of making quadrangle maps bordered by longitude and latitude lines (something like Geographic Maps): larger scale for congested regions, and smaller scales for E-skip channels."

Andy continues, "I am looking forward to seeing some of these TV Guide 'channels' pages. Enclosed is Toronto's. I will in the future send in the Oshawa-Peterborough edition and the Hamilton Niagara edition but I cannot at this time because I'm waiting for all the upcoming changes to take place and be reflected in the Guide. I think when you get mine - the O-P edition, Bill you will see what I think is the largest edition of TV Guide covering 32 terrestrial channels including 26 original stations." Since I raised the subject almost a year ago, the only submission was from Pat Dyer, I think in Oklahoma City edition dating back to December. I began to think there wasn't any interest after all."

"In response to Ben, Mike's April comments... there are many factors to take into consideration to explain why Canada seems 'regrettable happy'. I think the most important fact to keep in mind is Canada is the second largest country by land size in the world, why even bigger than the United States! Compounded with this, the population is only about 25 million spread thinly across the lower portions of the country. With so few people living in such a great area not everywhere can be cabled economically. Canadians also like to get out of their cabled houses for the weekend to the lake, cottage etc. where no cable system will ever exist. This is why stations like TVOntario and Global have so many repeaters about another point - TVO, R Canada and CBC are publicly owned stations who have more funds available to add stations than do private ones. By condition of license they have a mandate to serve the province not just the major centres. When Global applied for its license to the CRIC, it too said it would broadcast for northern Ontario. To broadcast

only from say Toronto and Ottawa would not be effective. It makes me wonder though if some of these relays are not a tax-payers waste. Due to poor publicity most people living in these cities generally don't realise they are on the air and therefore do not use them, but people in the rurals and smaller communities surrounding them do. Many TVOntario and Radio Canada relays are not even listed in TV Guide or newspapers. Spreading the French Radio Canada across English Canada is your typical government money wasting effort, though."

"There must be something wrong with your map of Ontario, Ben. Peterborough is not 20 or even 30 miles away from Toronto but 90 miles. Kitchener which also has a TVO station, is located 70 miles west of Toronto. Peterborough did in my opinion need a TVOntario relay. Peterborough sits in a large gentle valley at the top of a ridge on the north shore of Lake Ontario. Channel 18 is on a 900 ft tower on top of this ridge. It's much higher up than the top of the CN tower on the lake at Toronto. This is why 18 gets into Toronto and even Niagara and Rochester N.Y. easily but 19 and the other stations from the CN tower have a hard time reaching here."

"Why are there no 'original' stations being applied for? Two reasons I think. One is money - everything today especially in Canada is more expensive and there are not that many entrepreneurs around willing to make such an investment. Secondly and more importantly is the dreaded CRIC - the Canadian Radio-Television and Telecommunications Commission. As you have alluded to, Canada has the underdog broadcast system. All private stations rely a lot on cheaper American programming to fill time and make money. In Canada we do not have the broadcasting free for all that you do in the states. A new hopeful applying for a license must come up with a substantial amount of Canadian programmes in prime time and this costs. The easiest way to do this is to be a CBC affiliate but of course the CBC is taking on no more affiliations preferring CBC owned stations instead (no need to fight with the privates then)."

"Finally in response to Toronto's crowded TV dial, in a couple of months (after 27 is on and listed) I will send in my edition of the TV Guide. I dare any WFDCA member to produce one listing more TV stations (not cable)."

U.S.A. FORUM

NATHANIEL ELY (Madison WI) sends in some information on recent television happenings in the Midwest. From a letter dated 5/21: "WHKE-55 in Kenosha, WI was seen testing with a 3/4 CB and ID on the early morning of 3 May 88. Their signal was weak and CCI could be noted from W55AS in Milwaukee. I haven't seen WHKE-55 since then but I suspect it will be on the air soon." In a letter dated 6/2/88, "KMCI is on the air with the Home Shopping Club. I'm not sure if this is an HSN station or whether HSN only buys time at night."

Back to the first letter: "W65AU in Adams, WI is now an xtr for the Wisconsin Educational Television Network. It was formerly STV. I'm not sure where it gets its feed but a good guess would be WHRN-20 from Wausau, WI. I note that the xtr-low power list shows a channel 53 permit for Friendship, WI, which is very close to Adams."

"WTKK-29 in Kokomo, IN was seen on the air on 5-21-88. They operate as a satellite of WTTY-4 in Indianapolis, IN. They do not give an audio dual ID but do show the calls on WTTY-4's ID slide."

"KOCR-28 in Cedar Rapids, Iowa is a non-ID after about 10 pm. The station appears to be automated with everything on video tape. The switching between programs and advertisements is very abrupt as if done by an automated switcher. There are no IDs and the station goes off the air without anything but the Star Spangled Banner. Is this legal?" The only thing that sounds illegal to me would be the lack of hourly station identification. I don't know of any law requiring that a broadcast day end with the station's address, technical data and the national anthem, but nearly all stations do it. Even some 24-hour stations do it at 6:00 a.m."

"I was surprised to see Fox programming on KOCR because KCRG-9 had been showing the Fox programming in that area." I had a list of FBC affiliates which included KOCR, even before the station went on the air. Evidently KCRG was permitted to carry FBC programs on a temporary basis until the real affiliate, KOCR, went on the air."

From the second letter: "WHKE, channel 55 in Kenosha WI began regular programming on 1 June 88. They carry Le Sea religious programming. Again I noted quite a battle between W55AS in Milwaukee and WHKE-55. If W55AS stays on the air they will be clobbered by WHKE-55 due to the lake inversion conditions noted so often by Bill Draeb. It will be tough times for WHKE-55 as they will have to depend upon donations from Kenosha viewers to stay on the air. Kenosha was just devastated by Chrysler Corp's decision to put 5,500 people out of work shortly after purchasing the Jeep production facilities from American Motors."

RANDY MILTIER (San Jose CA) sent in a few articles and comments. The 5/5 San Jose Mercury News reports on KQED's fight to retain control of KQEC, ch. 32. "A three-member [FCC] review board ruled this week that KQED, Inc., which owns both Ch. 32 and Ch. 9, should lose its license to run KQEC because it lied about why it took the small station off the air for six months in 1979-80. The board said the license should now be given to a group called the Minority Television Project, which has been trying to take over both KQED and KQEC for years. However, KQED, whose license to operate Ch. 9 and an FM radio station were reviewed by the panel, will appeal the decision on Ch. 32 to the full FCC, a process that might take as long as two years. After that, the loser could go to federal court, keeping the case alive untold months or years longer."

"In the meantime, KQED will continue to operate KQEC just about as it has for the last 18 years - as a video adjunct to Ch.9. KQED got Ch. 32 as a gift from Metromedia, which had called it KNEW-TV while running the station as an independent. This is just one step in the process," KQED president and general manager Tony Tiano said. "We've won at every other step, including last year before an administrative law judge who heard five weeks of testimony. I think we'll win before the full commission. These three people (on the review board) frankly don't understand the issue very well."

"Although various groups have challenged KQED for various reasons since 1973, the issue here is whether Tiano told the truth to the FCC about why Ch. 32 went off the air for six months in late 1979. He told the FCC at the time it was because new technical equipment was needed and hadn't arrived. However, the commission review board said in its decision that the real reason was to save KQED more than \$130,000 at a time when its operation faced a deficit of more than

half a million dollars. Tiano has said that there were financial advantages to taking KQEC off the air at the time, but that it was not the reason it was done. In its decision, the review board called Tiano's explanation 'a convenient smoke screen' that was 'at sharp variance' with other evidence.

"The battle over KQEC began in 1977 when a community activist group called the California Public Broadcasting Forum, an offshoot of the earlier Coalition to Save KQED, challenged KQED over its hiring and local programming practices at both stations, especially related to gays. Minority TV, a black and Asian group, joined the fight in 1982, and the FCC lumped both protests together. Since the review board's decision allows KQED to keep its license for Ch. 9, the Forum says it, too, will appeal, in an effort to get the full commission to yank that one as well."

The 5/8 *San Jose Mercury News* contains a disclaimer by KNTV (ch.11 San Jose) general manager Dick Fraim that the station is up for sale. Rumors have been sparked by the removal of six employees. "On the other hand - there's always interest in purchasing television stations, even if they're not officially on the market, and Fraim wisely noted that he couldn't predict what might happen next month or next year.... One consideration: since KNTV started calling itself 'The San Jose News Channel' in August, it reportedly has lost viewers in Monterey and Santa Cruz counties and the jury is still out on whether its 5 p.m. news show has gained enough Santa Clara County viewers to compensate."

Randy adds, "Their coverage is the same, news at 6 and 11 both at only 30 minutes. KSBW-8 in Salinas must've loved it when KNTV went to the 'San Jose News Channel.'"

"KPST-66 is still KPST and not KHFS yet. KFLL-64 in 'Sacramento-Stockton-San Francisco' (That's how they ID) is on very sparsely. They were on last week with 'test programming.' KOVR-13, KRKB-31 and KTXL-40 have a little better signal into San Jose since moving to their tower."

Randy just sent in another article, from the 6/3 *San Jose Mercury News* reporting on a disaster at the newly constructed tower of KTVO, ch. 3 (Kirksville MO): "A television tower more than twice as tall as the Eiffel Tower collapsed Thursday (6/2 - wbf), killing two maintenance workers seeking to strengthen the structure and leaving one missing, authorities said. The 2,000-foot tower was reduced to a 'tangled pile of metal,' said dispatcher C.L. Harlan of the Missouri State Highway Patrol. "The center section of the tower fell with such force that it went into the ground." "Colony (MO, the tower location. - wbf) is about 25 miles from the Iowa and Illinois state lines and 200 miles northwest of St. Louis." "Jerry Heilman, KTVO general manager, said the workers were replacing more than 1,000 structural braces. They were employees of Structural System Technology Inc. of McLean, Va., and had been working in Colony for several weeks. The tower was erected in September at a cost of \$2.5 million and was one of the tallest transmission towers in the United States, authorities said."

ROBERT BAKER (Humboldt IA) also sent in an article on the collapsed tower, from the 6/3 *Des Moines Register*, which gives further information: "Station officials said Thursday night they expect to be back on the air sometime this weekend. The station had already started changing over to its former transmitter tower located near Lancaster, Mo. Plans to

rebuild the tower at Colony already are under way." "The tower was the maximum height permitted under Federal Aviation Administration rules, said Sharon Scott of the Federal Communications Commission in Kansas City."

News on cultural and multilingual station WHRC, ch.46 in Norwell MA, from BEN WILKIE (York ME). The 4/21 *Boston Herald* reports, "There's a new player in the Boston TV market. It's Channel 46, which is increasing its power to reach 3.6 million viewers and is unveiling a new programming lineup beginning Saturday. 'I'd say we're a cross between PBS and cable on a commercial station,' said Doreen Cooper, director of promotions for the new WHRC-TV. 'We provide additional alternative programming that will be enjoyed by a wide audience of Boston viewers - shows they won't see on other stations.'

"Cooper said Channel 46's new programming is 'an eclectic mix of entertainment and information. Many of the shows have never appeared in the Boston market. These shows include classic American movies and sophisticated foreign films, award-winning children's programs, a wide selection of sports, travel, adventure, business, comedy, do-it-yourself instruction, fitness, exotic cooking, and an emphasis on music and a variety of one-hour specials,' Cooper said.

"Channel 46 will receive programming from the International Television Network (ITN), a satellite broadcasting network that will bring in select shows from more than 30 countries. As ITN's Boston affiliate, Channel 46 will present four to six hours a day of programming from such countries as Australia, New Zealand, Japan, Spain, France, Italy, Israel, Germany and Brazil. These shows will include sitcoms, dramas and documentaries. The foreign language shows will be either dubbed in English or subtitled.

"Channel 46 has even more ambitious plans down the road. By late fall the station will boost its power once again - to reach 5.7 million viewers - and management is negotiating with several cable companies to carry the station. 'We plan to do local newscasts by the spring of 1989 and have a full news operation by the fall of that year,' said Alan E. Lidow, 45, president of Channel 46...."

Asked if Channel 46 could realistically grab a piece of the highly-competitive Boston market, Lidow answered, 'Absolutely.' "The station signed on in Boston under previous owners in December, 1986 as WRYT-TV. It was acquired by Lidow's company, the Massachusetts Channel 46 Corporation, on March 31. The station has an antenna in Hanover and offices in Charlestown."

Other tidbits from Ben Wilkie's area: WSBK-38 Boston airs Home Shopping Club overnight service every night, 1:30 am until dawn. WG01-60 Merrimack NH expanded its programming schedule, now from 4:30 pm to 12:30 am.

TOM KNEITEL (of *Popular Communications*) sent some information on that unidentified channel 44 reported by Roy Barstow in last month's column. It's W44AI, with offices and studio at 110 East 23rd St., New York NY 10010. From the June 5-11 *Newsday*, which describes its program content as including a Greek cultural program and "American-Russian TV," we have this account of the station: "The little station that offers this offbeat program broadcasts from a transmitter in Mineola, one of the 'low-power TV channels' permitted by an FCC ruling of a few years ago. These stations were intended to foster local community broadcasting

within a 10- to 15-mile radius, as opposed to normal VHF and UHF TV transmissions, which can carry 50 miles or more.

"The channel also provides shows aimed at Indian viewers, at various segments of the Hispanic community; there are programs for Jewish audiences, and New York's only regularly scheduled program directed at the region's gay community. This eclectic schedule is the brainchild of Jim Chladek, the general manager of Metro Access Studio in Manhattan, where most of Ch. 44's programming is produced. Oddly enough, the schedule grew out of Ch. 44's initial failure in a seemingly surefire format - as a music channel." "Ch. 44 found they could get teenage viewers easily enough - but no advertising executive would stick his neck out and buy ad time on these channels when the station was running videos with sex, drugs and violence."

"Instead, Chladek became general manager and leased Ch. 44's studios and on-air time to any qualified independent producer who wanted to do a show. In the process, he discovered a viewing audience that had been completely missed by the region's established local stations."

"Ch. 44 currently reaches 3 million households with a signal that blankets Nassau, Brooklyn and Queens and just brushes the eastern side of Manhattan. Chladek, however, plans to extend the reach of this programming to Suffolk County later this year over Ch. 57, as soon as they finish negotiations for a broadcasting tower. To receive the station at present, viewers must have a UHF loop antenna pointed east toward Mineola."

RALPH STROBEL (Muncie IN) reports that WTTK, ch.29 in Kokomo IN went on the air around May 19, giving a dual identification with WTTV, ch. 4, Bloomington IN. He also sent in two articles from the *Muncie Evening Press*. The 5/26 article reports that a federal bankruptcy court approved the sale of WTTV, ch. 4 in Indianapolis, from Tel-Am Corporation to Capitol Broadcasting Company for \$66.7 million. Tel-Am still needs FCC approval to transfer the license.

The 5/17 article reports the proposed sale of Indianapolis station WXIN from Outlet Communications Inc. to Emmis Broadcasting Company, subject to FCC approval.

GREG CONIGLIO (Williamsville NY) reports in the Buffalo NY area: "On May 23rd, I noticed W58AV Buffalo had returned to the air. Then they had a scrambled picture. Now they have a call slide, with an address: CITIZENS TV SYSTEM INC., CHANNEL 58, 104 AURORA AVE, BUFFALO NY 14224. It has a considerable amount of snow here, at only 12 miles (Equipment is 4-bay on roof w/CM amp)"

W.R. MCINTOSH (Granada Hills CA) sent in a few articles from the *Los Angeles Times*. The 5/20 article describes another fight brewing between cable operators and broadcast stations. "The [FCC's] proposal to give local broadcasters exclusive rights to syndicated programs within their market drew harsh criticism Thursday from local cable officials, who insisted that if the new rules take effect, viewers will lose many of the programming choices they have become accustomed to over the past few years. Executives at local TV stations, which stand to benefit from the proposed syndicated exclusivity rule, welcomed the FCC's action but said it probably would have little effect on their programming or the size of their viewership. The new rules would force cable operators to black out or substitute alternative pro-

gramming for syndicated programs carried on out-of-town superstations that are also broadcast on a local station."

"The effect of this proposal, said Chris Derick, president of the Southern California Cable Assn., will be that cable systems will spend so much time blacking out programs on the superstations that they will simply drop them from their programming lineup."

The 5/6 *Los Angeles Times* reports on KTLA, ch. 5 in Los Angeles CA, which had presented live, continuous coverage of the downtown skyscraper fire on May 4. Most of the other stations only presented occasional short updates throughout the night. During the coverage from 11:30 p.m. until 1:00 a.m. when the fire was under control, the station had 32% of the viewing audience, beating network programs.

TOM YINGLING (Dundalk MD) sent a few articles from the 10/26/87 *Broadcasting*, relating to the FCC action on call letters that was reported a few months back. It surprised me that the FCC, which has been notorious for deregulation in recent years, would propose to delete the rule that required "K" calls west of the Mississippi and "W" calls to the east, would turn around and decide to keep the ruling because there are still plenty of call letters to go around. What the FCC's final decision didn't state was the opposition to the FCC proposal that prompted its change of plans. From *Broadcasting*: "Bowing to nearly universal disapproval, the FCC, at its open meeting last week, decided against eliminating the geographical restrictions on assigning call letters.... Chairman Dennis Patrick saw an opportunity to defend the FCC from critics of deregulation. 'All those who think this commission is disposed to deregulate just for the sake of deregulation,' he said, 'should note this item.'"

Yeah, right! They should also take note that the FCC had just decided to allow boosters and LPTVs to rely on terrain shielding, dropped its Carroll Doctrine, UHF impact policy, and is proposing now to allow separate aural and video transmissions, stop requiring stations to calibrate power meters every six months, allow stations to transmit color burst signals during black-and-white transmissions, drop the maximum-to-minimum restriction on directional antennas, and delete specifications on equipment installation and safety requirements. And Patrick has the unmitigated gall to brag about the end of unrestricted deregulation because the FCC gave in to industry pressure on call letters.

"The outcry over the FCC's call letter proposal was loud, with networks, trade associations, group owners and ratings services voicing opposition. Arbitron in particular was vehemently opposed to the proposal. Its research indicated that a majority of viewers used call letters to identify stations and felt that any attempt to change the system would lead to confusion and distort ratings." Tell me folks, do you really believe that? Do you hear people say, "What's on WXXX-TV tonight?" No. They say, "What's on channel two?" How does the TV Guide and other television listings tell you where to find a program? By call letters? Or by those little picture-tube-shaped blocks with the channel number in it? Why were television stations upset when cable companies shifted their station to another cable channel? Wasn't it because people got the channel numbers mixed up?

And what is the purpose of a call letter? Is it so Arbitron can rate network programs? Or is it so the FCC can police the radio waves and identify any violators or interference sources?

"The FCC said it had proposed the change in K and W distinctions to increase the number of call signs available, but decided against the change because 'on further reflection the commission found that such a change would not increase the pool of available call signs, but only the areas where the existing call sign possibilities could be used.' The commission also said it 'recognized the value of maintaining the traditional radio station identification conventions,' and retaining the current convention 'outweighed any minor inconvenience it may pose for some broadcasters.'" Hogwash! It would have increased the pool of call signs available to any station in the country!

A few items from **BRUCE ELVING** (Esko MN). From what appears to be a newsletter from a group called Chapter 28: "Glendale (WI) just seems to have it in for Channel 58. Once again, the Glendale Common Council has voted to deny a rezoning request that would have allowed construction of a 1,100 foot broadcast tower for WDJT-TV on the city's southwest side. The council originally voted down the proposal for the \$1 million tower in June; early last month a similar proposal was voted down in Germantown. The tower was to have been erected on a 12 acre site in the 4300 block of N. Green Bay avenue, between Green Bay and the North-South Freeway, an area once part of the right of way for a Milwaukee Road rail line. During the hearing, Glendale residents maintained that the proposed tower would be unsightly, would emit low-level radiation, and would interfere with local television reception. The mayor of Glendale opposed the rezoning because of safety concerns, including the chance of a tower collapse, as well as the hazard of ice falling from the guy wires. The tower would have contributed more than \$40,000 in property taxes each year. WDJT is owned by Weigel Broadcasting of Chicago, current owners of low power Channel 55.

NEW STATIONS ON THE AIR

HI Honolulu; KWHE, ch. 14z, went on the air 3/6/1988; 250 kw max ERP; 150' AAT/411' AG/434' ASL; TL 1188 Bishop St., Honolulu (same TL as KBFD-32, but 21' higher); coordinates 21°18'49"/157°51'43"; DA BT HOR; independent station; address: LeSea Broadcasting Corporation, 1188 Bishop St., 5th Floor, Honolulu HI 96813.

IN Kokomo; WTTK, ch. 29-, reported on the air around 5/19/88 by Ralph Strobel; 1480 kw max ERP; 774' AAT/755' AG/1621' ASL; TL 0.37 mile northeast of the intersection of highways 213 and 200; coordinates 40°20'20"/85°57'15"; DA BT HOR; independent, satellite of WTTV, ch. 4 in Bloomington IN.

NC Goldsboro; WYED, ch. 17-, went on the air 5/5/1988; 2600 kw max ERP; 1576' AAT/1495' AG/1815' ASL; TL 2.4 miles southwest of Clayton NC; coordinates 35°37'01"/78°28'38"; BT HOR; independent station; address: Group H Broadcasting, 200 W Ash St., Midtown Mall, Suite 100, Goldsboro NC 27530.

OH Portsmouth; WUXA, ch. 30z, went on the air 5/8/1988; 1353 kw max ERP; 778' AAT/851' AG/1947' ASL; TL Navoo Pond Creek Road, West Portsmouth (on WPBO-TV-42 tower, but 102' lower); coordinates 38°45'41.5"/83°03'41.0"; DA BT HOR; independent station; address: Maycom Inc., 923 1/2 Findlay St., Portsmouth OH 45662.

TX Baytown; KLTJ, ch. 57+, went on the air 5/18/1988; 5000 kw max ERP; 1020' AAT/1017' AG/1024' ASL; TL 0.5 mile south of Oak Island, Chambers County; coordinates 29°38'47"/94°40'33"; DA BT ELL; independent station; address: Pray Inc., 3737 Red Bluff Road, Pasadena TX 77503.

WI Kenosha; WHKE, ch. 55- seen by Nate Ely, testing on 5/3/1988, and with regular programming on 6/1; 741 kw max ERP; 449' AAT/413' AG/1142' ASL; TL 700' northeast of Hwy 31 and Tobin Road, Kenosha; coordinates 42°30'36"/87°53'11"; DA BT HOR; independent station with religious programming.

FCC DECISIONS

I had already touched on these subjects in the context of Tom Yingling's letter.

The 2/22 *Federal Register* reports on the FCC's decision to eliminate the Carroll Doctrine and the UHF Impact Policy. The Carroll Doctrine, named after a court case involving the issue at hand, "requires the Commission, in certain cases, to consider the economic impact a proposed broadcast station will have on an existing station. The Commission found that Carroll issues have been raised in numerous proceedings over the years but have never been the basis for denial of a license for a new station. It also observed that resolution of these claims requires considerable time and resources, resulting in delay in the initiation of new services. The Commission further concluded that the theory underlining the Carroll doctrine was no longer valid and that tremendous growth in the number of media outlets reduced the possibility that public interest benefits would be realized in the future."

"Under the UHF impact policy, an application to initiate or improve VHF service may be considered contrary to the public interest if the proposal threatens adverse economical impact on existing or potential UHF stations. This policy was intended to afford UHF stations an opportunity to develop in the marketplace when that service was in its infancy and was at a disadvantage both economically and technically, to the VHF service. Since the UHF impact policy's implementation, such disparities between the VHF and UHF services have been reduced, obviating the need for protection of the UHF service through restrictions on new VHF service."

The 5/5 *Federal Register* mentioned most of the other examples of proposed deregulation. "This action initiates a review of technical and operational regulations for television broadcast stations. It identifies and proposes to delete burdensome or outdated regulations that are no longer needed. This action continues the Commission's deregulatory review of technical and operational regulations for various radio services."

Presently, stations may operate aural or visual information independently of one another only during the "graveyard" hours of midnight to 6:00 a.m. This proposal will allow stations to do this at any time.

Next month: more on FCC deregulation.

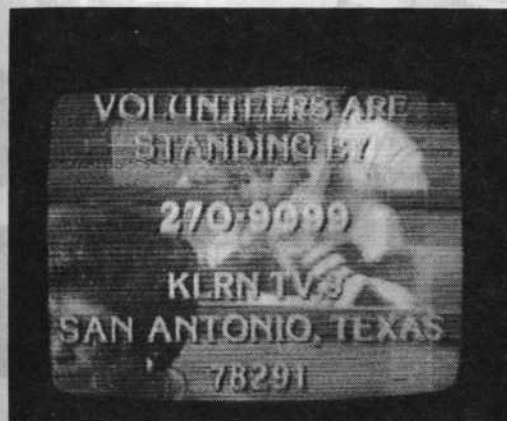
PHOTO-NEWS

Column layout by:
David J. Nieman
12284 Nice Road
Akron, New York
14001-9529

JULY

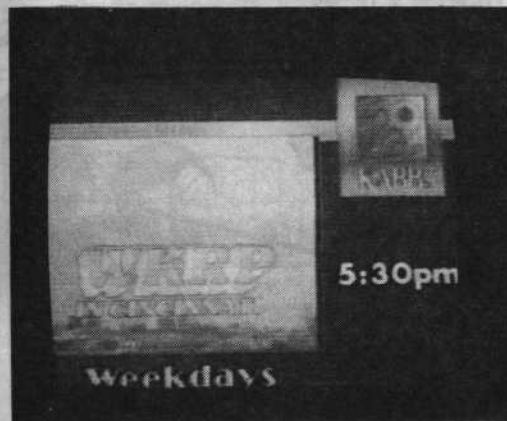
1988

This month's reporter is: Carlton Howington - St. Petersburg, FL.....



KLRN-9
San Antonio, TX
988* mile tropo
seen March 21, 1988
at 2200 ESTime

(*editor's milage figures)



KABB-29
San Antonio, TX
988* mile tropo
seen March 21, 1988



KXLN-45
Rosenberg/Houston
Texas
813* mile tropo
seen March 21, 1988

NOTE:

If anyone out their in VUD land has any recent DX or shack fotos they'd like to see in an up-coming issue. I'll be taking more in for screening so get-in quick.

JAVE

QSL CORNER & LOGOS RUN

tele-once
Canales 11, 9 y 22

THOMAS J. YINGLING, JR. KA3TCC
221 PINEWOOD ROAD
BALTIMORE, MD 21222-2345



SuperSiete
WSTE-PONCE-SAN JUAN



40
WMTJ-TV
26
WQTO-TV
La TeleDiferencia

WMTJ-TV Canal 40, San Juan y WQTO-TV Canal 26, Ponce son parte del sistema universitario de la Fundación Educativa Ana G. Méndez. Sintonícese en San Juan por el Canal 40 UHF o el Canal 3 de Cable TV, en Ponce por el Canal 26 UHF o Cable TV. Sintonícese por Cable TV en Leittown - Canal 15, en Leittown - Canal 16 y en Caguas - Canal 40.

Citytv
News · Movies · Music
Cable 7

CBC Television
Toronto 5

CKCO-TV



GUAYAMA & MAYAGÜEZ 24

EL CANAL DE NOTICIAS

SINTONICENOS POR CABLE TV:
San Juan, Canal 15 / Mayagüez, Canal 38 / Caguas-Humacao, Canal 45 / Aguadilla e Isabela, Canal 4.



CBC Television
Windsor 9

TVOntario
la chaîne



47
Cable Four

VIDEOSTAR **Télé 7**
CÂBLE 18 ou 20
Sherbrooke



13
CKMTV
Cable 13 Sherbrooke

9
CKSH-TV
Cable 9 Sherbrooke

cftm 10
LA TELEVISION DE MONTREAL



NOTICIAS 23

THE GREAT ALTERNATIVE



WHEN IT'S IMPORTANT TO YOU
IT'S ON ACTION 11 NEWS.

WHAS-TV
STEREO ELEVEN
Louisville, KY

Sintonice el Canal 40 (UHF) en San Juan y el 26 de Ponce y los pueblos del área sur. Sintonice por Cable Televisión: San Juan - Canal 3; Leittown - Canal 16 y Caguas - Canal 40.

La Universidad Metropolitana,
WMTJ-TV Canal 40 y WQTO-TV
Canal 26 son parte del sistema
universitario de la Fundación
Educativa Ana G. Méndez.



SEDUE
WMTJ-TV CANAL 40
Apdo. 21345, Riq Piedras, P.R. 00928

Deseo obtener más información sobre los cursos televisados con créditos universitarios del Canal 40.



This month I have a mixed bag of tv id logos. I have some id's from Richard Clark again, with this time id's from Puerto Rico. Also some from Mike Reid in Toronto with some from Canada. Also, I finally got a good Computer-Eyes image from my video tape from Cuba of Canal 8 Cuba id. I got this logo, thru a odd-ball way. I wrote to Radio Habana Cuba shortwave station for a paper logo id of the Cuban tv stations. My letter was then forwarded to the right place, & was told I should heard from them soon. Then I got in the mail a vhs video tape of the main 3 tv networks from the Czechoslovakian Embassy in Wash., DC. I then used my computer, with the Computer-Eyes interface with the video input, from the vcr. I hope it turns out ok in the VUD.

Now for the list of station logos: WLII-TV ch. 11 Caguas, PR; WSTE-TV ch. 7 Ponce, PR; WAPA-TV ch.4 San Juan, PR; CKCO-TV ch. 13 Kitchener, ONT; CFPL-TV ch. 10 London, ONT; WKAQ-TV ch. 2 San Juan, PR & WORA-TV 5 Mayaguez, PR; WMTJ-TV ch. 40 Fajardo, PR & WQTO-TV Ponce, PR; CITY-TV ch. 57 Toronto, ONT; CKCO-TV again; CFTO-TV ch. 9 Toronto, ONT; WSJN-TV ch. 24 Guayama, PR; CHCH-TV Hamilton, ONT; Canal 8 Cuba ch. 8 Habana, Cuba; CBET-TV ch. 9 Windsor, ONT; TV Ontario Network id no channel noted. <<< Page 2 >>> CFTO-TV ch. 9 Toronto, ONT; WLTV-TC ch. 23 Miami, FL; CFMT-TV ch. 47 Toronto, ONT; CHLT-TV ch. 7 Sherbrooke, PQ; Global Network id with no channel noted; CKTH-TV ch. 13 Three Rivers, PQ & CKSH-TV ch. 9 Sherbrooke, PQ; CFTO-TV 9 again; CFMT-TV 47 again; WHAS-TV ch. 11 Louisville, KY Action 11 News SatCom truck. Well, 73's for now, and good dx. PS: you can find me on 10 meters now on 28.37 Mhz. on skip if you are lucky as KA3TCC. 73's again.

East Coast SWL Conference Ham/Computer Fest!

September 17-18, 1988

Virginia Beach, Virginia

Come and enjoy a weekend in beautiful Virginia Beach, Virginia, with many of your favorite SWL friends! Forums, conferences and dealers galore! Participating clubs include NASWA, ODDX & Great Circle SW Society.

- ⇒ Jonathan Marks from Radio Nederland!
- ⇒ Robert Horvitz, ANARC Exec. Secretary
- ⇒ Dr. DX Speaks Out!!
- ⇒ Chuck Rippel, DX'ers Forum Editor

Other highlights include displays from the major manufacturers: Icom, Kenwood and Yaesu; forums with the FCC, the ARRL, and various computer organizations! PLUS a flea market, and dealers of ALL kinds!

SWL forums will also include general roundtable discussions on receivers, QSL'ing and antennas! Additionally, the BLUE ANGELS will be performing at the nearby OCEANA MASTER JET BASE; it will still be warm, and the shores of the Atlantic Ocean are only a few short blocks away! A fun filled weekend is assured!

For more information, send a SASE to:



The Old Dominion DX Association

P.O. Box 9645
Norfolk, VA 23505-0645
or call (804) 497-5151

* * * PUBLISHER'S NOTES * * *

THAT FELLOW ON THE COVER IS WELL KNOWN WTFDAER BOB COOPER... LOOKS LIKE HE'S JUST BROKEN ALL-TIME UHF TV DISTANCE RECORDS!!! (AGAIN!!!!) NOW WHAT? HOW ABOUT A TRIP TO DISNEYWORLD...

STATION BREAK

WTFDA H.Q.
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

FOR SALE - LPB AM CARRIER CURRENT BROADCAST SYSTEM - (1) TX2-20 20-watt transmitter with TX2-20L audio limiter board. (1) LA 2-20 20-watt linear amplifier. (1) T-8 AC Power Line Interface Unit. (1) T-1A-2 two-way power splitter with additional three splitter (bonus). Two sets of user manuals/documentation included. All mint condition, \$1200. (High school purchased equipment in 1980 but immediately mothballed it when station funding could not be obtained. LA 2-20 requires a second T-8 unit not included but can be obtained from LPB or Radio Systems Inc.) Write WTFDAer T.K. Wood at P.O. Box 4702, Martinez, GA 30917, for photos, data sheets, and additional information. Seller pays shipping! (Crystallized for 600kHz)

WANTED - I would like to trade tapes (audio/video) and TV GUIDES with anyone interested in doing the same.
Mark James - 419 W. Michigan - Marquette MI 49855

YOUR non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK. This feature appears on a space available basis. WTFDA and the VHF-UHF DIGEST assume no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.

FM STATION ADDRESS BOOK

NEW NRC PUBLICATION
ONLY \$8.95

- * 8 1/2 X 11"
- * FULL SIZE TYPE
- * 3 HOLE PUNCHED
- * LISTED BY STATE, BY CITY

ORDER FROM:
NRC PUBLICATIONS CENTER
P.O. BOX 164, MANNSVILLE, NY 13661
Actual Page Sample

| STATUS | CALLS | FREQ | STATION LOCATION | HORZ-POWER-VERT | ANT HGT | STATION ADDRESS |
|--------|---------|-------|------------------|-----------------|---------|-----------------|
| | WIZB | 94.3 | Abbeville | 3000 3000 | 279 | Box 577, 36310 |
| | WQSB | 105.1 | Albertville | 100000 100000 | 308 | Box 190 |
| | WSTH-FM | 106.1 | Alexander City | 100000 100000 | 981 | Box 72, 35010 |

To order your copy of the FM Address Book, Mail this form along with US\$8.95 (Canada US\$9.45) to: NRC Publications Center, P.O. Box 164, Mannsville, NY 13661.
Foreign Orders write for correct pricing.

Name _____
Address _____
City _____ State _____ Zip Code _____

FEEDBACK

LET'S MAKE DX REPORTS EASIER TO UNDERSTAND BY USING STANDARD SYMBOLS AND ABBREVIATIONS...AND "AM VERSUS FM" BROADCASTING DEBATES DON'T BELONG IN VUD!!!

I have received the VHF-UHF DIGEST for about 6 months and wanted to let everyone concerned know that it has provided many hours of informative reading including a lot of info that I hadn't previously run across in my 30+ years as a 'lone-wolf' dx-er.

I may well be a little different than most of those who are regular contributors insofar as my approach to the hobby is extremely informal. I do not maintain logs, nor do I write for verifications; however I have on rare occasion called stations for programming or technical information to satisfy my suspicions when direct over-the-air ID was not received. I also tape most of what I pull in, and prior to home videotape took a few Polaroid and Kodak 'Brownie' shots off the screen.

In going through the last few issues of VUD I've noticed a lack of consistency in reporting and descriptive terms. Personally, I've always subscribed to the "K.I.S.S." [keep it simple...stupid] plan of attack. I find a lot of the verbiage extraneous...i.e.: who gives a hoot about the ratings wars in New York and Los Angeles. Reporting symbols and abbreviations tend to be confusing and are not often well-defined. It seems that everyone has a different idea about how things ought to be listed and how much descriptive material should accompany the reports.

As a casual observer, I find Fred McCormack's format the easiest to follow (and the newsiest without being trivial) and would like to see that same sort of no-nonsense approach applied to the entire publication.

One other area that I question is whether VUD is an appropriate forum for a war of personal views regarding the plusses and minuses of AM vs. FM. As a broadcaster with 33 years under my belt on the AM side and 28 in the FM arena, I have learned that regardless of what we as individuals may believe, the FCC will muddle along at a snail's pace, do as it pleases, generally screw everything up, and the concern of the dx-er is the last thing on its agenda...as well it should be.

Pages of dialogue in VUD will not change the status or future of the AM and FM broadcasters or their facilities. For that reason, if no other, I think the issue ought to be put to bed. Surely you can use the space for more interesting things such as more 'photo news' or some such.

If anyone is in a position to supply information, a 'Golden Oldies' section might be fun. Remember when WRBL-tv was on channel 4? Or, the days of KLRJ-tv on channel 2 in Las Vegas (Henderson)?

Enough gripes. Really, they're minor and all I'm advocating is a little better organized and more consistent means of presenting the information you already print...

Thanks again for a unique publication for a unique hobby. I hope a little constructive criticism might help make VUD even better.

Tom Bryant
Production Manager
WSM AM/FM
2644 McGavock Pike
Nashville TN 37214

it's free!



W.T.F.D.A.
1988
CLUB

SUPPLY

CATALOG

(send a s.a.s.e.
to wtfda hq)

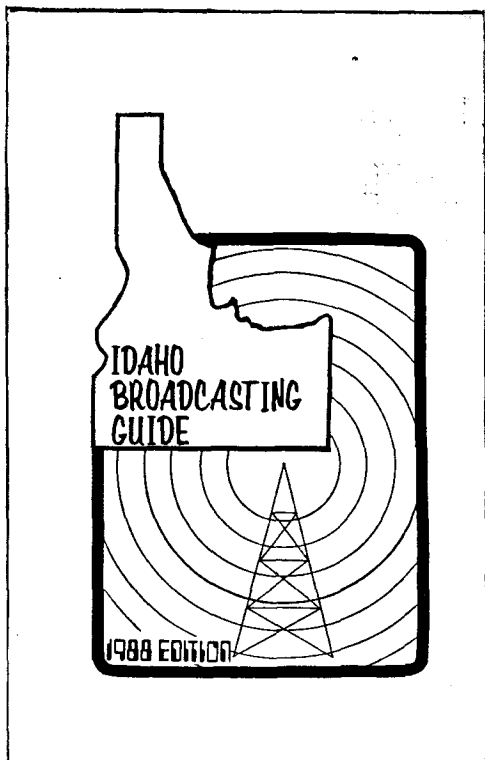
REVIEW

BY RONALD M STOCK

IDAHO BROADCASTING GUIDE
1988 edition

24 page booklet,
\$3.50 postpaid

Available from:
c/o Frank Aden, Jr.
5147 Morris Hill
Apt. 133
Boise, Idaho 83706



Oh boy, do I wish every U.S. state and Canadian province had a reference guide like this one. The author is a former W7FDA VUD chief editor, and obviously is also a Broadcasting Enthusiast as well as a DX-er.

Someone like me really makes good use of these as I like to visit tv as well as the radio stations while driving across country and camping. This book not only gives out all the Idaho station's addresses, but also vital stats such as power, format, network, AND ALSO the names of the key station personnel such as chief engineer, etc. etc.

Idaho is not the easiest state for many DX-ers to get in an opening because its not overloaded with stations like Texas, California, New York, etc., etc. but if you do log it during an opening you will want to get a QSL. That's where this booklet is a big help.

Matter-of-fact, NAME of a station chief engineer is essential nowadays, for many stations just don't know how to deal with DX reception reports anymore! Stations are

very automated, broadcasting is Big Business now, no more time or money to be friendly to DX-ers anymore, I guess. So for best chances of QSL'ing success, a reference such as Idaho Broadcasting Guide is a useful addition to a DX-ers library.

A bonus -- Mr. Aden also lists station's phone numbers and brief histories of stations, and MAPS of the state showing locations of am, fm, and tv stations. Like I said, do I wish every U.S. state and Canadian province had a guide like this one, I sure wouldn't lose much time on the road looking for the stations, and my qsl's recieved percentage would go higher!

-30-
RMS

FEEDBACK

HOW BAD ARE CURRENT TV TUNERS FOR WEAK SIGNAL DX WORK? AN ELECTRONICS TECHNICIAN CALLS FOR MORE VUD TECHNICAL ARTICLES TO HELP IMPROVE DX RESULTS

I would like to see more technical articles on improving TV and antenna performance. This was the main reason I joined W7FDA last year.

I have been a DX'er since I was a kid. About 1962 at age 10 I had an old Crosley with a 1-bay conical on the ceiling of my bedroom and worked skip. In the late 60's I was building UHF yagi's and watching the educational TV transmitted from B-52's over Indiana. It wasn't until about 10 years ago I had the time, money, and place to put up a good antenna.

I experimented with different antennas, preamps & coax, and heights. Also, being in TV service I have tried many different TV's. I have found that once you have a separate UHF antenna, a good preamp, and height that clears the trees, improving these doesn't make much difference on very weak signals. Also, the main difference between TV's is how well they are aligned. I wonder if others have found the same things?

Although I watch when I see skip or a temperature inversion (tropo) to see what I can get, I am mainly interested in "dead" condition DX (scatter) on UHF. By the way, I'm not bothered by locals - closest VHF is 58 miles -- one station -- most others are over 80 miles; closest UHF is 72 miles (only 219' @ 1.2 kW), most others are over 100 miles. I can see signals 200-300 miles away under any conditions but nothing seems to pull them out any better. I suspect that TV IF system noise figures of 20-30 dB are the main problem. Right now I am working on modifying a TV front end and IF to see what I can do, but I could use some suggestions. If I'm successful I will send in the results--maybe write it up in an article.

If receivers can be built sensitive to 1 or 2 uV and preamps can be made covering the UHF TV band with only a 1 dB noise figure, why can't an IF strip be made with better than a 23 dB Noise Figure? (That's what Zenith proudly claims for their IF's.)

To see just how bad TV's are we hooked up a splitter with a friend's programmable scanner to my UHF antenna one day (under "dead" conditions) and punched in the the audio carriers of ch 14-20. With full quieting we received ch 19 Shaker Heights, Ohio at 391 miles. Granted this is narrow-band FM (NBFM) and TV audio is very wide but it shows what a low noise IF can do. (We could not see or hear anything on the TV). We then tapped the scanner into the TV after the VHF tuner and punched in the sound IF frequency expecting it to be much worse. It was very unstable of course, but the signal surprisingly wasn't much worse than before. I wonder if anyone else has tried this?

I would like to try building a complete IF system and AGC, perhaps using CA3028 IC's; try putting lower noise transistors or GaAsFETs in tuners; try mounting mechanical or varactor tuner and IF at the antenna; and to compare the Delhi 4' UHF dish (smaller and lower gain but you eliminate balun loss between antenna and booster preamp) to Channel Master's 6' or 7' dish.

Speaking of Baluns, does anybody know how much loss is in those things--the only test I ever saw was inconclusive.

It may take me forever to try all these things...it would be nice to work with other W7FDAers on these ideas. 73,

Jerry Beaudin,
Jerry's Electronics Service
P.O. Box 146
Curtis, MI 49820

SPECIAL REPORT

SOME DXERS ARE WORRIED: WILL THE SUMMER OF 1988 PROVE TO BE A BUST FOR TROPO DX IN WIDE AREAS OF NORTH AMERICA?

As of mid-June, much of North America has been suffering from what looks to be a classic drought. Several members have sent interesting clippings to WTFDA, and most of these have a common theme: it looks bad for tropo this year.

Regular summertime tropo conditions, the daily inversions we expect almost every warm summer morning, just have not been materializing, and the culprit may be the very hot and extremely dry air that has parched the continent.

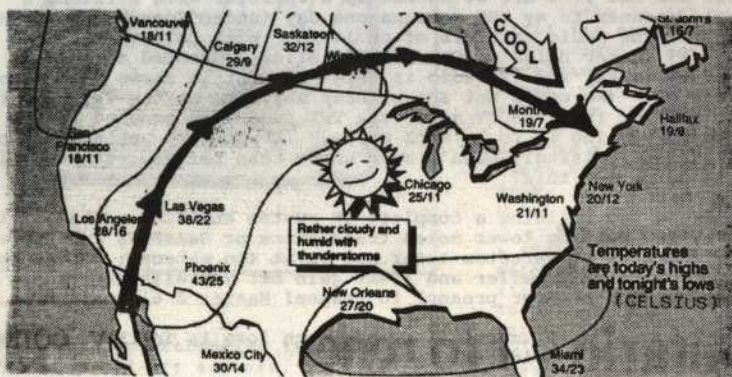
No need to tell longtime members--this has happened before. One longtime TV DXer talks about the summer of 1974 being similar. What's really disturbing, though, is that four or five of the hottest, driest summers on record in North America have taken place in the 1980's!

What's needed for tropo conditions is more than just a simple temperature inversion. MOISTURE, in it's more stable forms, is the key element. Great tropo openings, both ducting and the more common general inversions, are the direct result of stable moist air masses, either slow-moving or stagnant.

As this is being written, temperatures are approaching 100 degrees F (with low humidity) in a large area of the Northern Plains in mid-continent. This is almost unheard of. We say almost, because it HAS happened before in years that turned out to be lousy for summer tropo. History seems to be repeating itself.

Was there advanced warning of all this for DXers? Maybe. Several WTFDA members (mostly those well away from large bodies of water such as the Gulf or Great Lakes basins) commented about how poor that late winter and spring tropo conditions were, and have noted the strange pattern in the jetstreams that meteorologists have been discussing.

Roughly, here's a typical late spring weather map; note the almost total lack of rain:



If history is indeed repeating itself, the really scary aspect of this story will be of interest. Weather experts are also commenting that the way this unfortunate situation (even moreso for the farmers, obviously) often ends is with an active hurricane season--which, may be on the way. It's a horror story, no matter how you look at it. What to do? Does anyone in their right mind actually hope for hurricanes? Then again, are VHF DXers really in their right minds? Seriously, though, what tropo DX enthusiasts need in a hurry is a change in the current longterm weather pattern. Let's hope things return to something close to normal soon!

--BILL THOMPSON

ATTENTION MEDIUM WAVE DXERS!!!

National Radio Club 1988 Convention REGISTRATION INFORMATION

The NRC '88 Convention is planned for Labor Day weekend, September 2 - 5, at the Airport Midway Motor Lodge, Milwaukee, Wisconsin. Located directly across the street from the General Mitchell International Airport at 5105 South Howell Avenue, conveniently accessed from I-94, use the Airport exit.

All Hotel reservations must be made directly with the Midway Motor Lodge at (414) 769-2100 to receive the special rates for the convention. Mention the NRC Convention and the rates are \$52 for single, \$60 for double, each additional adult in a room is an additional \$6 plus tax. Children under age 18 stay free in their parents room. Rollaway beds are available for a charge of \$8 plus tax. There are a limited number of rooms available at these special rates so reserve them as soon as possible and no later than August 2, 1988. After that day they will accept reservations only if space is still available. Group rates may not apply after cut off date or if the block is filled. There will be a limited number of poolside rooms available for a slightly higher rate if the block is full. There is 24 hour courtesy transportation between the Lodge and the Airport. Courtesy phones are located in the Airport baggage areas. Arrangements can be made to pick up those traveling by bus or train.

PREREGISTRATION 88 NRC CONVENTION

Preregistrations for the 88 NRC Convention will be accepted now until August 15, 1988. Registration includes all-you-can-eat Saturday Banquet Buffet, all-you-can-eat Sunday Breakfast Buffet, snacks, beer and soda in the hospitality room. The Hospitality (Aviator) Room will be the center of activity at the NRC Convention, there are many sites to see in Milwaukee and the surrounding area, Polish Fest will be at Summer Fest grounds and other possibilities exist for activities and happenings during the weekend.

Registration Fee is \$34 per person payable to the NRC. Please send your registrations to NRC '88 Convention, P.O. Box 24, Cambridge, WI 53523 prior to August 15, 1988 so we can finalize banquet arrangements.

-----detach and mail-----

Name _____

Address _____

City, State, Zip, Phone _____

Expected Arrival Date/ Time _____ Mode of Transportation _____

'88 NRC Convention