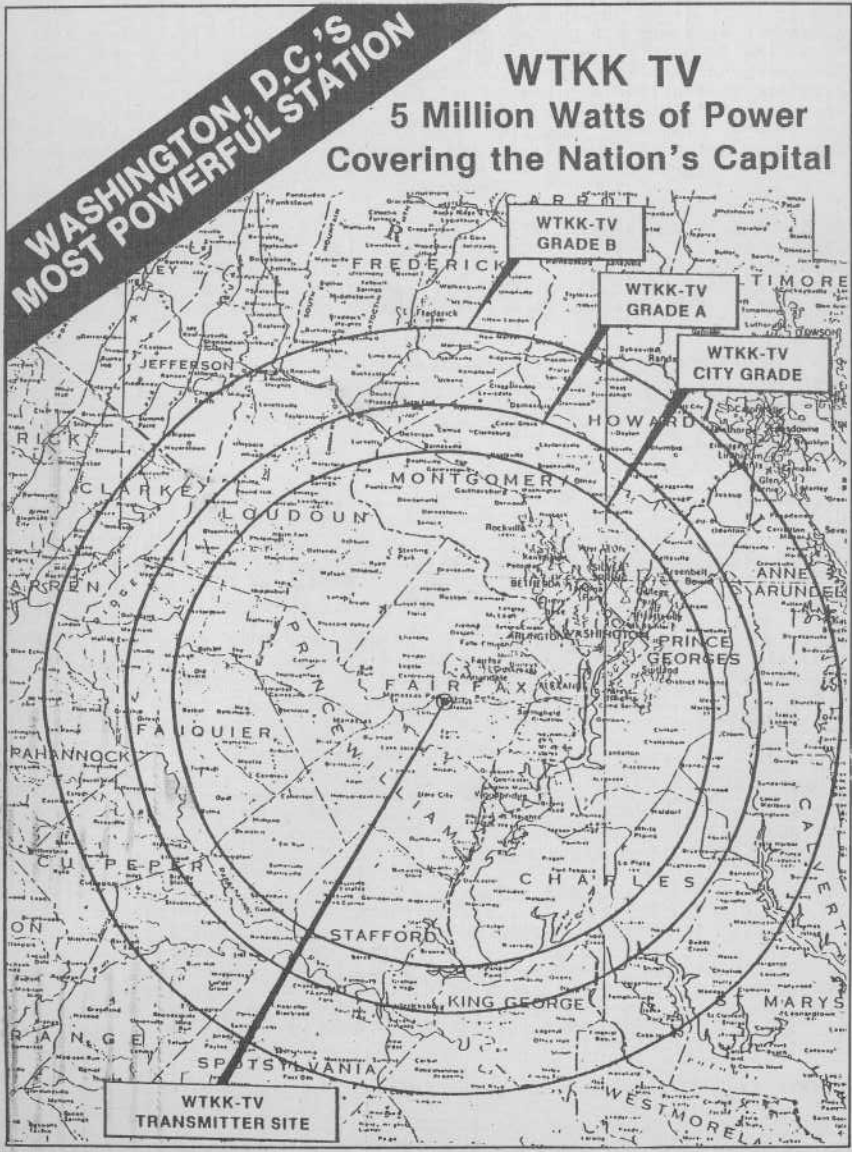


Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JUNE 1990



WORLDWIDE TV-FM DX ASSOCIATION
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11/90
WILLIAM N NOLLMAN
35 NYE ROAD
GLASTONBURY CT 06033



From The STAFF

THERE'S STILL TIME!...That's right--you can still register for the August 3 - 5 WTFDA Convention, to be held in Manassas, Virginia. Mike Wimer has extended the reservation deadline to July 1, so you still have time to make plans to attend! The event takes place right near the center of the map on this month's cover--but see page 3 for more specific instructions on how to get there. Here's the ideal place to meet your fellow WTFDAers and "talk DX" with people who share your enthusiasm. You may find that you'll learn more about the best DX equipment and techniques at a club gettogether in one weekend than you can by reading DX club bulletins for many months.

AN EARLY E-SKIP SEASON?...Well, maybe. As this month's edition was being prepared, a strong start to this year's spring-summer E-skip activity was taking place! Will the rest of the season live up to the promising conditions shown in May? We'll soon find out! At any rate, the E-skip season SHOULD be well underway right about NOW!

VUD EDITORS PLEASE NOTE...The deadline for getting your columns to the publisher has been moved to the 20th of the month. If the 20th falls on a weekend or a postal holiday, you must get your finished copy in by the 19th. The VUD will continue to be mailed out in the first week of each month.

COLUMN NEWS...This issue's NWS NEWS was intended for the May VUD, but was delayed by the USPS...TELEVISION NEWS and INTERNATIONAL NOTES were not on hand as we go to press this month...SATELLITE NEWS does not appear this month; George has taken a month off as he makes some system equipment changes and promises a column next month.

BITS...Mark Strickert of DECALCOMANIA sends word that the group, "the club for fans of radio," is planning a mid-August summer get-together in Chicago. For more info, send SASE to: Mark Strickert, 3852 N. Oconto Ave., Chicago IL 60634.

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Thanks to 1990 WTFDA Convention Host Mike Wimer for the cover!

WTFDA CONVENTION '90

The WTFDA 1990 convention will be here before you know it and we hope to see you all there. In order to allow everyone possible to attend we have extended the reservation deadline to July 1, 1990.

Registration Fee is \$45.00 per person and includes at least 4 meals throughout the three days. See May VUD for more information on room rates, etc.

The convention will be held on August 3-5, 1990 at the Olde Towne Inn, 9405 Main St, Manassas Va. Phone No. 703-368-9191.

Directions from I-95: Take Exit 51 and follow Rt. 234 north to Manassas (approx. 16 miles). As you pass under the railroad tracks turn right at the light onto Center St. (which is a 2 lane one way street). The third street on left is Main st. Turn left onto Main St. and a right into the Inn's parking lot. The Inn is on the corner of Main St. and Center St. and occupies a city block with parking lots in the front and rear.

Directions from I-66: Take exit 11 and follow Rt 234 south to Manassas. Note, after approx. 3 miles Rt. 234 bares to the right. Follow signs indicating Rt. 234 (not Old Town Manassas). After approx. 1 mile, before railroad tracks, turn left at traffic light onto Center St. The third street is Main St. Turn left onto Main St. and the Inn is on the corner of Main St. and Center St.

We are still looking for members to give Tech talks, demonstrations, etc. If anyone is interested, please let me know.

REGISTRATION FORM

NAME _____ INTERESTED IN TOURS _____
ADDRESS _____ NEED FLEA MARKET SPACE _____
_____ DAY OF ARRIVAL _____
PHONE NO: _____ NUMBER ATTENDING _____
WOULD YOU LIKE ROOM RESERVATIONS MADE FOR YOU AT THE
INN? _____ IF YES, HOW MANY IN PARTY? _____
WILLING TO GIVE A TECH TALK? _____ IF YES, TOPIC _____
SEND TO: MICHAEL WIMER, 14508 DARBYDALE AVE., WOODBRIDGE,
VA 22193.



FM NEWS

Bruce F. Elving, Ph.D., Editor
Box 24
Adolph MN 55701-0024, U. S. A.

Selectivity Improvements and Other Things

Those of us on a "selectivity kick" continue to get high on new DX, and additional opportunities to report on station format updates: stations embracing stereo and other interesting tidbits to DXers. Greg Coniglio's one of those, and he says to watch big WMJQ, "Majic 102.5," somewhere in the wilds of upstate NY, for creeping "soulism" or "urbanism." WFGM 97.9 Fairmont WV is still "Great 98," but hey—it's "more often 'The Heat'." WKCA 97.1 Sutton WV can confuse DXers. One minute they're stereo, the next not. Greg heard 10 minutes of stereo out of them, and then mono the rest of the time. "All mono on the way back. Signal very multipath-ridden when was in stereo." I'll continue to consider it a mono station, unless others write and say they're using stereo at least once a week on a regular basis. Poor station. Probably wants to be \$, but finds it hard to do with the area's multipath. Greg heard an unidentified station on 92.5, k format, which must have been WZAC-FM Danville WV, a "semi-local in Charleston." Do let me know if WZAC-FM possessed stereophony.

Marion SC 94.3 continues to be a mystery—as to its call letters. My "FM Atlas" shows it both ways, as WWPD and WKXS. Greg says it's "back to" WKXS-FM from WWPD, but the "M Street Journal," which came the same day, says it is WWPD, with a SMN AC format (not country as Greg says). I wonder if he heard it while simulcasting its AM and before the program shift? I will have to assume that unless I hear differently. His Buffalo NY ratings report leads off with WJYE 96.1, then WBUF 92.9 WYRK and WKSE 98.5. The only AM to show in the top 10 is WECK 1230. Twenty years ago when I was at Syracuse Buffalo-area students said that all they listened to was WKBW 1520 AM, now WWKB with a talk format. "Looking forward to the next FM Atlas, Bruce!" says Greg.

John Jefferson reported in from a two-week vacation to south and east CA, Phoenix, Tucson, NM, CO, Bryce Canyon UT, and Las Vegas. In analyzing his report I have kicked out several translators from my listings (shown in this month's FMedial), and made other changes. Outside of taking extensive notes on the stations or translators he heard or didn't hear, he kept up on the classical music stations along the way. Some did not come through like they should "of." KVODenver's Colorado Springs translator "had a noticeable hiss which would have masked minor noises in the primary," while the Boulder translator had a minor multipath problem in its feed. KDB-FM 93.7 Santa Barbara had noticeable sound processing, but otherwise sounded good. KIWI 92.1 Bakersfield runs mostly KDFC (102.1 San Francisco) tapes, but with local programming 9 to 11 p.m. "KPRX 89.1 Bakersfield had a noisy feed from the KVPR 89.3 Fresno studios, and KVPR's mostly-vinyl record collection is in bad shape. . . KCME 88.7 Manitowish Springs had a horrendous buzz in transmitter and flutter turntables, so basically flunked. KPRN 89.5 Grand Junction uses a trash compactor that ruins the quality signal KCFR sends them, so another flunkout." He DXed K244DJ 96.7 Alamogordo NM while in Las Cruces, and heard a local ID for that translator, "apparently locally generated as I did not hear mention of the primary included." KTSC *89.5 Pueblo was off;

John thinks "permanently." Maybe Douglass Allen can check to find out if it ever operates.

Also from CA, KMPH-26 chief engineer John Dresser sent word on KTIE 107.1 Bakersfield on in stereo, and KTAA 94.3 Kernan being on, and interfered with by translator K232AY 94.3, which has yet to be shut down. Grrr! A translator "causing noise for KTAA in Fresno!" He also sent a press release telling about the woes of KZRZ 107.5 Hanford being cracked down upon by KRZR 103.7 there. Latter took former to court and got a temporary restraining order forbidding former from using its call letters, except when the FCC Today's Rock'n'Roll. KRZR 103.7 FM mandates once per hour at the top of the hour, and not in any of its advertising. Well, the station solved the problem by changing to KFRZ and then to KZZF, "still 'Z Rock'," reports Dresser.

Scott Fybush mentioned FM-SCA on a computer bulletin board, saying "The only manufacturer I still know of is Bruce Elving. . . He sells a wide variety of modified receivers and chips to let you modify your own. Also, for those who miss the FM section of the Vane Jones guide, Elving puts out an annual volume called FM Atlas and Station Directory. . . it even includes listings of subcarriers! (And, yes, there are some people 'masochistic' enough to listen to FM-SCA!)"

FM DXing for the deaf? Eric Fader sent an article on the RDS system of FM station alerting found in many European car radios. The system was demonstrated at the NAB show in Atlanta, involving WYAI-WYAY. Among the features of RDS are a display of station calls, frequency or slogan. It's uncertain whether the system will be implemented in this country, but there is a possibility. If all stations had it, DXing should be easy. A constant ID received via 57 kHz SCA! You'd need to buy your own RDS receiver or get an adapter, plus needing local-like signal quality to activate the RDS display before you could "verify" what you thought you heard.

Frank Aden was in on some FM news from ID, with KIZN 93.1 New Plymouth ID promoting "it's coming" over a heart pounding in the background. This went on for about four days straight; then it went from country to rock/MOR as KZMG Magic 93. KIYS 92.3 Boise, which had not changed calls by the time this is written, immediately went country and strict nonID, "Kizzin Country." If anyone wants a tape of these two stations changing format send two bucks to Frank at 4096 Marcia Place, Boise ID 83704. I assume for that price you won't hear four days straight of 92.3, 93.1 chaos.

Matt Sittel sent information clarifying the calls' confusion about Hickory NC 102.9 being WEZC for sure. An oxymoron? WLCQ 98.3 VA Clarksville is using "Easy 98.3" for their CHR/r format, but during promos they sometimes will use "Easy 98 Rock," probably just to befuddle DXers. "After a song, WZY 100.9 NC Fairmont says 'Carolina's Own Classic Rock'." "Rock 101" is not said, but only in jingles can it be heard." He thinks there is a WTFM 98.5 Kingsport translator on 99.7. I believe that is Rogersville, W259-, having moved from 106.3 because of a soon-coming station in that city, WJDT 106.5. He's heard "The New Country Wave"

FCC—FM

WCFL To Really Serve Chicago?

June, 1990

on 98.9. "I don't think this is WDRP 98.9 Windsor NC." I think it's WLES-FM Lawrenceville VA; I hope Matt can confirm this and mention if it employs stereo or not.

Jerry Beaudin read Tim McVey's and my articles on FM selectivity filter modifications, and he kindly sent spec sheets on several types of Murata filters. "I have been looking for info on ceramic filters for some time. I finally got Murata's phone number a couple of months ago and they sent me their catalogs. If you graph out the SFE 10.7MS2 (the one most sets use), SFE 10.7MS3 (probably the same as the Toko from Digi-Key), SFE 10.7MJ (the 150 kHz Tim used) and SFT 10.7MS3 and SFT 10.7MA5, I think the last two may even be more useful. The SFT 10.7MS3 is 180 kHz at the top, but has steeper skirts and also lower insertion loss and spurious response. It crosses the 150 kHz one about 12 dB down. The SFT 10.7MA5 might be good for people who don't want to give up audio response. Although wider at the top it crosses the other curves 8 to 16 dB down because it has steeper skirts. . . I have also included spec sheets that show filters with 3 dB bandwidths of 55 and 130 kHz (as well as 110 kHz). If someone really wanted to narrow things up these might be used, although I would combine them with other filters because their spurious response doesn't look too good.

"I'm trying to find a supplier that carries these and the 455-kHz filters too (I also tinker with shortwave radios). So far I've found one (Time Electronics) that carries the full line, but they have a \$50.00 minimum. I've sent some info to one of the editors of Monitoring Times magazine who was also looking for filters and I've offered to take orders if need be so that people won't have to order 50 bucks worth. I told him I would only have to get enough to cover whatever postage costs are. I'm also going to send this to Tim McVey as he and I have been working on some other things and I'm sure he's interested in seeing this. . . I saw where someone in the bulletin said they changed one filter in a G-E Superadio. I looked in mine and couldn't see any. [It is on the lower circuit board in the upper right-hand corner—b.e.] I've bought three of those for myself and friends—I get them wholesale—and the AM bands on all three benefitted from peaking up the tuned circuits (including IFs)." If you'd like to join with Jerry in a filters' order write him at PO Box 146, Curtis MI 49820; (906) 586-3021.

As I was about to reach into the refrigerator for a candy bar, the Clark name caught my attention, and sure enough, Richard Clark writes from the DR. I met him at a WTFDA convention and he still gets back to his former QTHs of Pittsburgh PA and El Paso TX. "It has been quite some time since my last report, but I have moved to Tenares (DR) and married again for the third time. However, since I live in two countries I am able to give you two reports from El Paso and Tenares about any FM changes on SCA." He then described the SCAs, all 67 kHz, in such towns as El Mogote, Alto Bandera and Santo Domingo, while in TX music is leaving the El Paso subcarriers. KLTO 94.7, for example, "has moved [its music] to 2150 mhz S-band."

Clay Johnson must love VUD covers, as he asked if I had a book of coverage maps similar to what is on most of the monthly covers. I wrote and said that Bill Thompson has almost all the coverage maps I had. "I'm not necessarily in the market for one, but if one's available and the price is reasonable—we'll see. . . I enjoy your newsletter. Keep up the good work!"

Robert Grant sent information on various FM formats from the Detroit area, mentioning that WKSJ 102.7 Mount Clemens does not cover the area well, having to

locate to the NE of the city because of WIQB 102.9 Ann Arbor. Trouble is, most folks are not DXers with good receivers and tuners. Most have "lousy radios that lose WKSG in downtown and Southfield (due to overload), and in western Wayne and downriver (due to lack of selectivity). There are so many horrid radios out there that people think WKSG itself has very poor coverage. Likewise, because so many radios have lousy AM sections, people think AM has poor sound quality, even making absolute lies about AM fidelity (2-ed.).

"I wonder if America will get DAB soon, then receiver makers will care even less about the front end of FM tuners, and FM will be a victim of the same neglect that AM is now, and the same kind of absolute lies will be printed: You can't listen to an FM station within 16 km of any other station, FM is full of distortion if there are any trees or buildings in sight, FM stations interfere with each other if they are within 160 km of each other and are less than 800 kHz apart! My last letter's set of comments on FMX and FM noise apparently did not sit well with an unIDentified [DXer] who sent me a mail order catalog for hearing aids! I must admit 'between Ely and Winnemucca NV' was an exaggeration, with WMXD and CKMR being a little noisy because they are simply weak at my new QTH, about 70 km from each of them, but I still strongly defend my statement that better RF design is more important than FMX, and that the fact that overall FM reception is much better here in the Thumb than in Southfield or any part of the city of Detroit is inexcusable.

"With regard to the 'Commercialism' controversy, I must admit that I did not like seeing FMedial plugged at subject headings (e.g., 'Format Changes-Selected, Complete list in FMedial). Imagine a report to ETVDX that looked like this: June:

- 7 Es 1300 WEDU-3 FL 1030
- 1330 WEAR-3 FL 940
- 8 Es SUPER HIGHBAND OPENING TO CENTRAL AMERICA! READ ABOUT IT IN MFFMA NEWSLETTER!
- 10 Tr 2200 WZZM-13 MI 160"

Quebec DXer Alain Pepin says he's lost his last "American rock station" when WQCR 98.9 Burlington VT became WOKO and one of three area country stations. "WGFB 99.9 went yuppie last year (and off my list). Only WXXX 95.3 and WIZN 106.7 are 'tolerable'. By the way, CIBL 104.5 Montreal hasn't moved yet. 'Florida 1989' is my latest tape venture; 300 IDs from Savannah to Key West to rural Virginia. My headphones still work!" For information on getting that tape, write Alain at PO Box 82, Rouses Point NY 12979-0082.

Ken Onyschuk is getting a good signal from WCFL 104.7 Morris-Chicago, but no commercials—just music, jingles, time checks and no local service. In an article Ken sent, Jay Andres, long known to all-night AM DXers as classical host on WBBM AM, has wrapped up 4+ years as morning announcer at WNIB 97.1, joins rival WFMT, taking over the mid-day shift. Peter Dominowsky, formerly with WMFE-FM Orlando FL, succeeds Norman Pellegrini as program director. Pellegrini's future role is being negotiated.

"Don't listen to a soul, outside your own journalistic conscience, regarding content of your monthly WTFDA piece," exhorts Greg Hardison, KABC Talkradio. "I don't think many folks realize that the 'hobby' is quite lucky to have your donated expertise to draw upon, in the form of that very column. I'm sure there are folks who would pull your operational strings, given the opportunity; I've generally found that any attempt

whatsoever to mollify such sorts, however well-intentioned the compromise, only leads to more unreasonable demands. My advice to those unhappy with your . . . work: turn the page—change the channel, so to speak!" Greg visited Phoenix and liked what he heard there on FM, superior audio processing, "not overly compressed, as most of L.A.'s FMs seem to be. A suggested alternative term for 'lame' would be 'formula' or 'formalized'—also, a more accurate term, in the pursuit of semantic science."

Keith Pugh sent a listing of updates from his area, and the note that WMSB *96.7 Mississippi State is missing from the "FM Atlas." WMSB apparently has deleted; if you have information that it may be operating anyway, let me know. He says on p. 118 the Dayton OH calls are listed as WHKO, which is correct; no longer WHIO-FM. WZEZ 92.9 TN Nashville "drops b format, now very soft rock, 'Lite FM 92.9'. I think you label this format nr (or is it m?)". It may be better if I don't mention the 'l' word. Bill Nienajadly would surely be a big fan of WZEZ! He's heard WBZD 106.3 KY Cadiz, light rock, \$[tereo], no sign yet of WJRX 107.9 TN East Ridge, which must not be on. "You're right about 92.1 WKJA NC Belhaven from my Feb. SFM report. I had the calls on tape, but confused them while writing up my DX report. Went back to 11th edition FMA. . . That was a good thing to add the 'oldies' code for programming format."

Finally from Bill Nienajadly, I got a call mentioning that he installed 100-kHz ceramic filters in a receiver with amazing results for selectivity. He apparently did not notice any fidelity loss, and I asked him about any loss of stereo separation. "I never DX in stereo," he said. I said, "you should always DX in stereo, so you can report on stations having that feature." He countered with the fact that two of his three receivers activate the muting when the stereo is on. Now with his/our technical expertise, he/we should figure out a way to defeat the muting while permitting stereo to come through, or at least allow that stereo lamp to shine like a trusting beacon, alerting the lonely DXer to the fact that this new, prized signal is laden with stereophony!

Bill has modified Greg Coniglio's TX-9100 Pioneer tuner. "His tuner was by far the hardest to modify, taking 2+ hours. The 'IF' board is very tough to reach. I even had to remove the back panel, but now I know what's involved I could do another one in less than an hour!" He sent an article on long-time Spanish broadcaster WJIT 1480 going to heavy metal.

"I honestly wonder if someone took my advice about trying something truly different on the AM band," Bill muses. "Remember my comments a while back in FCC-FM News? I think this format [of WJIT] will work good for the AM band, bad audio or not. . . More power to Infinity Broadcasting for their bold move! I modified Paul Mount's Sony and Kenwoods with 150s; his Sony also gets Boss 97, a toughie for sure. Bruce, again thanks for doing a great writeup in the April VUD on filter modification." Bill then comments on AC stations having some variety—WGNV 103.1 Newburgh NY ("automated but a fair selection"), and WMGS 92.9 Wilkes-Barre PA, "noted variety only because of 'Artist Profile'." You'll hear non-AC songs of a feature artist. Profiled Stevie Nix and played even AOR-type songs. . . AC (lame) need to diversify a lot more, still much improvement needed." Back to filters, "the 150s are excellent, but the 110s could provide maybe 60-65 dB adjacent with four or five filters! I could care less about sound quality; DX is the name of the game!" He and Bob Smolarek visited Bill Burrows in south Jersey "and

still had some NYC (barely there), but it was next to the Philly locals at 7 km—right? The Philly ant. farm is 12 mi or 20 km (right?) from his house. We did visit the Philly ant. farm (Roxboro). What a very impressive sight! We did hear the elusive WPEB *88.1 at Bill Burrow's house, weak and off frequency! WCBS-FM 101.1 now #1 station in NYC market, beat our WLTW! Heh!"

On another subject, Bill is "very distressed to learn that translators could go to 1000 watts and on all channels. Surely this will almost kill off our hobby. Gerry Turro would love to put Z-100 on every channel if he could. I'm sure he is getting paid well from Z-100! I highly doubt that Turro would go 1000 watts on W276AQ (now back on the air) without complaints from WNEW-FM 102.7 and WYNY 103.5. But Turro would take 95.1, 104.7, 106.3, 107.9 and kill my listening of WRKI, WZZO, WSPK, WVIP! And the FCC will allow this? Our area is way too crowded as it is. Why does the FCC allow Turro to have Z-100 on other spots on the dial—96.7, 94.3, 100.3, 103.1? Four spots! I'm surprised the other stations aren't complaining, or are they? The Z-100 transmitter is only 6 or 8 km from Fort Lee! That is flagrant abuse of the airwaves if there ever was! At least Turro can't get on the adjacents! That's one area he can't ruin! Really, maybe it wouldn't be that bad if he took a distant signal from 120 km away and relayed that, but Z-100, a local? Seems the FCC is so concerned about censorship of the airwaves, but they seem to not care about the public airwaves being misused by having locals translated! Our hobby of TV or FM is being ruined with the proliferation of LPTVs and translators on TV and Docket 80-90 and the new translator proposals for FM. Well everyone, enjoy our hobby now before rules might even prohibit that! Did anyone see the comments in March TV News about the possibility of us having to put a device to block out DX TV signals? Very chilling, ain't it? What next? DX clubs being outlawed? AMization of the FM band is here! Enjoy FM and TV DXing while you can!"

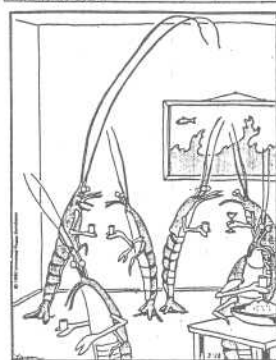
For a sampling of items culled from the news of those souls who are still able to enjoy DXing, look for the feature, farther on, "See Also." And keep renewing your WTFDA memberships. I'm sure the bleak scenario Bill paints will never come fully to pass, and even if aspects of it do, there will still be DX to be heard—especially on channels adjacent to your local stations, if you join the growing ranks of DXers bitten by the "increased selectivity" bug.

In a letter just received Bill says WFMU *91.1 East Orange NJ is "not lame, but not appealing either. . . Big deal on my use of plural's [sic]. I've heard the same from someone else, so what! I'm no expert speller, as long as my report(s) are somewhat readable then that's all that matter's [sic]. Picky, picky, picky, hi! Look at p. 34 VUD, May, Mike B. uses the same way of plurals—150s, so pick on him too! . . . I can't believe you condone 'Z-100' and translators going on every part of the NYC dial! I thought you were for DXing! Not against it! FMedial late? It's May 7th still not yet received. Bruce, the AFC elimination does work. Give it another try; Tim might write an article on it. When is the 1990 FM Atlas coming? Hopefully soon!" [To answer some of Bill's question's [sic], I'm glad he's becoming aware of cluttering his plurals with apostrophes (not apostrophe's). FMedial was delayed because the printer was very busy, holding the material for almost a week. I am trying to dump 500 copies of the current FM Atlas before beginning work on a new one. I do not

support local translators cluttering the dial in any area, but can see Turro's point in relaying an unneeded signal to tell the FCC what real translator "abuse" can be. Now if some DXer wants to retaliate against another DXer, all he or she has to do is set up a bunch of translators in the home area of the DXer he or she doesn't like! All you need is to follow the new FCC rules when they are finalized, get permission from the local (primary) you would rebroadcast and buy and install the equipment. DXer A could create 15 local translators at DXer B's neighbor's (correct use of an apostrophe to indicate a possessive)!

Seriously, Bill mentions that he obtained three of the 100-kHz filters as samples from Bill Burrows. "Surely we could find some DXer's [sic]

THE FAR SIDE by Gail Larson



"Listen, you want to come over to my place? I get great FM"

—submitted by Bill Nienajadly interested in 110's (is this the correct way to write it or is it 110- or 110s?). I'd say 110s, and Bill's last name would be Burrows, not Burrow's. Now on to material that partially filled the May FMedial newsletter.

New FM Station Grants

- AK Seward *88.149 watts h.v.; 452 m, Puffin Public Bcstg.—see also "Deletions" [Bcstg.]
- AK Solodna 96.5 10000h.v.; 79 m, Gold Nugget/AR Beebe 101.5 3000 h.v.; 100 m
- CA Ione *88.3 2000 wts vertical only, 40 m, to be g. Family Stations, Inc.
- CA North Highlands (Sacramento) *89.3 1000 wts vertical only; 127 m, g. Family Stations, Inc.
- CA Sacramento *88.9 50000 h.v.; 150 m, d-a, tj formats, CA State U.—Sacramento, to complement KXPR *90.9
- *89.7 300 wts vertical only; 27 m, Schools—same license as KYDS *91.5
- CA San Luis Obispo 97.1 25000 h.v.; 100 m
- CA Sutter Creek 101.7 1230h.v.; 157 m
- FL Marco 92.7 3000 h.v.; 100 m, Emerald d Sea Bcstg. (previ. grant rescinded by FCC)
- FL Mayo WGSB *89.5 2500 h., 25000 v., 76 m,

- True Concepts of Levy County [III Bcstg.]
- FL Panama City 105.1 50000 h.v.; 115 m, Ladies/ GA Dock Junction 105.9 3000 h.v.; 100 m
- GA Mableton 102.5 3000 h.v.; 100 m, Bolton Bcstg.; WGRH *102.5 Marietta to change frequencies or delete [R. Warrenton]
- GA Warrenton 93.1 3000 h.v.; 100 m;
- HI Kawaihae 106.9 300 h.v.; 307 m, Triad Bcstg.
- IL Gooding 101.3 3000 h.v.; 41 m
- IL Dwight 98.9 3000 h.v.; 100 m, Barden Bcstg.
- IL Woodlawn 106.9 3000 h.v.; 100 m
- IN Cannellton 102.9 3000 h.v.; 100 m
- IA Winterset 99.5 (not 95.7 as announced by FCC) 3000 h.v.; 100 m, AFM Associates
- KY Louisa 92.3 3000 h.v.; 100 m
- KY Radcliff 103.5 3000 h.v.; 100 m, W & B Bcstg.
- LA Alexandria 93.9 3000 h.v.; 100 m
- LA Shreveport 102.9 50000 h.v.; 150 m
- ME Wind ow WJBI-FM 95.3 3000 h.v.; 93 m, J.A. Bulmer (AM is in Batesville MS)
- MI Pentwater 94.1 3000 h.v.; 100 m, C & S Bcstg.
- MI Vandalia *89.9 100 wats h.v.; 30 m, V. Educ. Bcstg., Inc.
- MO Huntville 92.5 6000 h.v.; 100 m
- MO Osceola 92.3 3000 h.v.; 83 m, Valkyrie Bcstg.
- NM Albuquerque 101.3 2000 h.v.; 122 m
- NM Espanola *91.1 110 h.v.; 9 m, Northern NM Community College (see also "Deletions")
- NY Delhi 100.3 630 h.v.; 210 m
- NY Warrensburg 100.5 190 h.v.; 400 m
- NC Kingston WELS-FM 102.9 3000 h.v.; 100 m
- NC Langdon KVLK 95.7 3000 h.v.; 100 m
- ND Siles 105.9 100000 h.v.; 302 m
- OH Delta 106.5 3000 h.v.; 100 m
- OH Holdenville 106.5 3000 h.v.; 100 m
- OK Lawton 95.3 3000 h.v.; 92 m, the Fritschs; KMGZ moves to 99.5
- OK Moore *88.1 20000 vertical only; 180 m, Creative Educ. Media Corp. SD Watertown KSDR-FM 92.9 100000 h.v.; 299 m, Lake Region Bcstg. Co.
- TN Jellico 102.7 650 h.v.; 211 m
- TN Parsons 97.3 3000 h.v.; 100 m
- TN Rogersville WJDT 106.5 1000 h.v.; 164 m
- TX Huntsville 103.5 1600 h.v.; 139 m, Dara, Inc.
- TX Los Ybanez (32-43-45; 101-58, 15, near Lamesa) 107.9 50000 h.v.; 140 m, Israel Ybanez (89.3 Humble)
- TX Sugar Land K201BT *88.1 (KSBJ/ PR Nagueabo 92.9 3000 h.v.; 149 m
- NB Edmundston CFAI 92.7 10800 h.v.; 55 m, French, S. Coop des Montagnes Hee
- PQ Camp LG1 (James Bay area) CBF-*93.9, 290 h, Club Social La Grande, not certain if it is a relay via satellite of CBF AM or CBF-FM Montreal
- CKAC-95.9 290 h, receiving its signal via satellite from Montreal AM station

Call Letters Assigned

- AL Winfield 105.9 WXZX-FM [AZ]
- AZ Claypool 105.5 KIKO-FM (AM is in Miami/ AR Barling 94.5 KOLX (KPHN)
- AR Dermott 103.1 KXSA-FM (KXSA)
- AR Harrison 102.9 KHOZ-FM (KWNQ)
- AR Jacksonville 100.3 KEZQ-FM (KEZQ-FM; AM in North Little Rock gets new calls)
- AR Lonoke 106.3 KMZX (KWTJ), "Mix-106"
- AR Russellville 100.9 KCJC (KAIO)
- AR Sheridan 102.3 KXIX (KOLV)
- AR Texarkana 106.3 KUKB
- AR Trumann 106.7 KWEZ (KIHV)
- CA Fresno 95.7 KJFX (KYNO-FM), or, classic rock, "The Fox"
- CA Garberville 104.7 KBEY
- CA Hanford 107.5 KZZF (KZRZ), "Z-Rock"
- CA Palm Desert *91.7 KHCS (KYRH)
- CA Paradise 92.7 KCHH (KRIJ), r, CHR
- FL Gouli 98.3 WRTO (WAQI-FM)
- FL Mexico Beach 99.3 WLPC (WMQA)
- FL Quincy 101.5 WFHT (WIGI)
- FL Solana 105.3 WMMY (WHLC)
- GA Greensboro 103.9 WDDK (WGRG)

- HI Pearl City 101.9 KUKC
- IL Morris 104.7 WCFL (WUEZ-FM), "Super CFL," o, hits of the '70s. Facilities change to 50000 h.v.; 150 m, d-a, with the new tower expected by June, which station officials claim will enable it to "reach the entire Chicago metropolitan area."
- IL Nashville 104.7 WTOP
- IN Fort Wayne *89.1 WBNI-FM (WBNI); AM is a commercial station in Roanoke VA
- IA Bettendorf 93.5 KLSR (KBOC-FM)
- KS Hutchinson 97.1 KIUS (KQHK)
- KS Scott City 96.5 KSKL (KEZU)
- KY Jenkins 94.3 WIFX-FM (WIFX-FM; AM gets new call)
- KY Williamsburg 104.3 WEZJ-FM
- LA Berwick 105.9 KPVO
- LA Haynesville 105.5 KWNN-FM (KLVU-FM); AM is in Fort Smith AR
- LA Tioga 103.5 KLLA (KISY)
- ME Kennebunkport 104.7 WXPT
- MI DeWitt 96.5 WQHH
- MI Muskegon Heights 101.7 WQFN (WQWQ), r, AC days but harder rock PM drive and evenings, "Fun 101.7" (not strict)
- MN St. Louis Park 104.1 KJAO-FM (KJAO), "FM-104" (strict, from "104 FM," rp (album rock) ["The Fox"]
- MS Iuka 104.9 WFXO (WTIB), rp,
- MS Jackson *91.3 WMPN-FM (WMAA-FM)
- MS Monticello 102.1 WRQD
- MS Wiggins 97.9 WOTC (WPHF)
- MO Chaffee 104.7 KYRX (KZRX)
- MO Warrenton 99.9 KFAV
- NE Kearney 98.9 KKPR-FM (KKPR), o, [dies]
- NE Omaha 105.9 KUKF, joins NAB
- NH Campton 105.7 WVFM
- NH Nashua *88.3 WJCF
- NJ Freehold Township *89.7 WQHF
- NM White Rock 101.1 KNLA (KKBZ), o, SMN
- NY Clifton Park 96.7 WVZK-FM (WVZK-FM) [given WVEH]
- NY East Hampton 96.7 no calls (had been/ NY Fort Plain 101.1 WLKO
- NY Irondequoit 106.7 WQWJ (WOSB)
- NY Mount Hope *90.1 WEXX
- NY Olean 100.9 WMXO (WBZJ)
- NC Kingston 97.7 WFTC (WKCP)
- NC Statesville 96.9 WTRD (WLVK), "Thunder 96.9," still k
- NC Windsor 97.7 WURB (WDJB)
- ND Bismarck 98.7 KVPH (not KVPC, which is in San Joaquin CA, 105.5)
- OH Belpre *91.7 WQHD
- OH Cincinnati 105.1 WUBE-FM (WUBE)
- OH Crooksville 107.3 WYBZ (WRJ)
- OH Lorain *89.1 WNNZ
- OH Union City 97.5 WBNN (WFOW)
- OK Bethany 104.9 KNTL (KKNK)
- OR Toledo 107.1 KZUS (KTDO-FM), k
- PA Elizabethtown *88.3 WQHE
- PA Huntingdon 106.3 WQHG
- PA Lewisburg 96.3 WUNNS (WYBA)
- SC Andrews 100.9 WGN7N-FM (WQSC); AM is in Georgetown SC
- SC Marion 100.5 WQTI
- SC St. Stephen 105.9 WTTA
- SD Sioux Falls 101.9 KTWB
- TN Loudon 105.3 WJGD
- TN Morristown 95.9 WMXK (WAZI)
- TN Rockwood 105.7 WQFE-FM
- TX Amarillo 101.9 KATP (KESE)
- TX Beeville 107.9 KYTX (KHBX)
- TX Caldwell 95.1 KHEN (KJIB; KJIB is in South Padre Island TX, 92.7)
- TX Giddings 101.5 KOKE (KGID), g (country gospel, S, back on, but on 101.7 temporarily as "K-102") [m, "Key 92"]
- TX Martin 92.9 KEYR (KRRX),/ TX San Diego 105.9 KUKA
- TX Tyler 104.1 KTMJ (KGKB)
- UT Ogden 97.9 KBZN (KKWY)
- UT Richfield 97.5 KYAY

VA Culpeper *89.9 WPAV (WCFL)
VA Narrows 101.3 WNRV-FM (WNRV)
VA Newport News 97.3 WGH-FM (WGH-FM; AM gets new calls)
WA Dayton 92.5 KZHR
WA Pasco 101.3 KUKK (gets new calls)
WV Beckley 101.7 WCRF-FM (WCRF-FM; AM; WV West Liberty *91.5 WGLZ
WV Columbus 100.5 WYKY (WVAM)
WI Sturgeon Bay 97.7 WFNL (WDCW)
NS Yarmouth 104.1 CIFA, \$[tereo]
ON Kingston *101.9 CFRC-FM (CFRC-FM) now \$, pc, plus jazz, French, etc. On from 5:30 p.m. to 2 a.m. Monday through Friday and 8 a.m. to 2 a.m. Saturdays and Sundays.

Facilities Changes Granted

AL Jasper WBZQ-FM 102.5 78500 h,v (640 m)
AL Linden WNPT-FM 102.9 40000 h,v; 168 m
AL Reform WTID 101.7 23400 h,v; 222 m, C2
AK Fairbanks K1AK-FM 102.5 26300 h,v; 496 m
AR Fairfield Bay KFFB 106.1 15600 h,v; 268 m
AR Fayetteville KKIX 103.9 100000 h,v; 147 m
CA Kingsburg KJET 106.3 3300 h,v; 133 m
FL Lakeland WYFO *91.3 10000 h,v; 91 m, adding horizontal polarization (d-a)
FL Miami Beach WZTA 94.9 100000 h,v (306 m, / FL Micanopy WCLC 97.7 2600 h,v (151 m)
FL Sarasota WHVE 102.5 503 m (100000 h,v)
GA Rockmart WTSW-FM 107.1 45000 h,v; 158 m, [c, 2]
GA Statesboro WMCD 100.1 50000 h,v; 90 / ID
ID Hayden KMWC 94.5 230 h,v; 470 m
IL Le Roy WMLA 104.1 (from 92.7) 25000 h,v; 100 m, B1 [h,v; 112 m, d-a, B1
IL Urbana WQIO 92.5 (from 93.5) 20000 / IN Columbus WWWY 104.9 6000 h,v (91 m)
IN Linton WQTY 93.3 (from 93.5) 12000 h,v; 145 m, B1 [000 h,v; 241 m, C1
IA Mason City KNIG 93.9 (from 93.5) 100- / IA Northwood KPLW 102.7 6000 h,v (97 m)
KS Eureka KOTE 93.5 100 m (3000 h,v)
LA Baton Rouge WTRG 100.7 497 m (100000 h,v), C [24000 h,v; 173 m
LA Oakdale KICR-FM 98.7 (from 104.9) / LE Gardner WABK-FM 104.3 d-a
ME Portland WOPR-FM 101.9 32500 h,v; 185 m
MD Easton WCEI-FM 96.7 25000 h,v; 78 m, B1
MA Boston WZLX 100.7 21500 h,v; 237 m
WBCN 104.1 21000 h,v; 235 m
WMJX 106.7 21000 h,v; 235 m
MA Medford WOKS-FM 107.9 20200 h,v; 237 m
MI Hillsdale WCSR-FM 92.1 6000 h,v; 74 m
MI St. Johns WLNZ 92.1 4000 h,v; 122 m
MN La Crescent KOEG 102.7 1800 h,v (183 m)
MN Rochester KWKK 96.5 31000 h,v; 188 m
MN Thief River Falls KVVL 102.7 164 m, (10000 h,v) [h,v; 150 m, C2
MN Walker KLLR-FM 99.1 (from 99.3) 50000 / MS Meridian WOKK 97.1 183 m (100000 h,v), C1 [99.3 3200 h,v (180 m), C2
MO Boonville KDBX / [h,v; 133 m
MO Camdenon KCVQ *91.7 (from 90.7) 10000 / MO Columbia KFMZ 98.3 24000 h,v; 217 m, C2
NE Omaha KPOB *88.1 6000 h,v (91 m)
NV Laughlin KLKJ 107.9 8000 h,v; 576 m
NM Las Cruces KVLV 99.5 100000 h,v; 312 m
NM Taos KRBJ 99.9 6000 h,v; 118 m
KYTAO 101.5 (from 101.7) 1000 h,v; 876 m
NV Vastal WNKW 103.3 2600 h,v; 309 m, B1
NC Davidson WDAV *89.9 d-a
NC Nags Head WNHX 92.3 67 m (3000 h,v)
NC Raleigh WDRR 94.7 514 d-a (100000 h,v)
OH Belleport WCVV *89.5 3000 h,v; 20 m
OH Bryan WBNO 100.9 6000 h,v (91 m)
OH Cincinnati WVXU *91.7 26100 h,v (207 m)
OH Lorain WZLE 104.9 1300 h,v; 152 m
OH Urbana WKSU 101.7 100 m (3000 h,v)
OH Wellston WKOV-FM 96.7 16000 h,v (131 m), B1 [h,v; 150 m, C2
OK Clinton KCLL 95.5 (from 95.3) 50000 / OR Medford KOPE 103.5 100000 h,v; 312 m

OR The Dalles KACI-FM 97.7 4200 h,v (272 m)
PA Bedford WAYC-FM 107.5 340 h,v; 399 m
PA Lewisport WCXK 105.5 470 h,v; 249 m
PA Mount Union WXMJ 99.5 300 h,v (439 m)
PA Dilyphant WAXH 95.7 300 h,v (308 m)
TN Paris WAKQ 105.5 3000 h,v; 61 m
VA Accomac WKYJ 99.3 16500 h,v; 122 m
VA Buena Vista WVLI 96.7 10000 h,v; 150 m, B1 [582 m
VA Clifton Forge WXCF-FM 103.9 150 h,v / VA Staunton WTON 94.3 310 h,v; 713 m, \$, k
VA Othello KZLN 97.5 (from 97.7) 28500 h,v; 200 m, C2, converts to \$[tereo], k
WV Morgantown WVPM *90.9 5200 h,v (336 m)
WI Menomonee Falls WFMR 98.3 6000 h,v (100 m), adds d-a
WI Milwaukee MWVK *88.1 170 h, 291 m
WI WLUW-FM 102.1 20000 h,v; 232 m
WI Rhinelander WXPB *91.7 100000 h,v; 123 m
PR Maricao WAEL-FM 96.1 24200 h,v (613 m)
BC Vancouver CHQM-FM 103.5 49000 h,v; 545 m, height estimated as it is said to continue the same coverage it had
NB Saint John CJYC 98.9 50000 h,v (125 m)
NS Truro CKTO 100.9 50000 h,v; at a new site 25 km north; new height not announced

See Also May VUD For

CO Colorado Springs KWBI translator now on *88.1 (K201--), from K208BE *89.5), Allen, p. 30 [WY00U, Mancuso, p. 31
FL Safety Harbor 92.5 calls are WYUO, not / IL Kankakee WONU *89.7 was it really an (illegal) ad or a (legal) underwriting credit for the store in Bourbonnais? Falconer, p. 33
KS Arkansas City (pronounced Ar-Kansas City, like the river, not Arkansas City) KWKL 106.5 Cool 106.5 (from "Light 106.5"), Allen, p. 30 [ta, Buntin, p. 31
KS Eldorado KBUZ 99.1 r, ID with Wich- / KY Corbin WCTT-FM 107.3 T-107 nonID, Pugh, p. 30
MI Howell WHMI-FM 93.5 r, \$, Falconer, p. 33
MI Interlochen WIAA now on *88.7, having moved from 88.3, Falconer, p. 33
MI Otsego WQXC 100.9 m, Falconer, p. 33
MO Eldon KLOZ 92.7 Z-93 nonID, Buntin, p. 31
NC Roxboro WKRX 96.7 97 Country nonID, Sittel, p. 31
OH Cincinnati WAKW *93.3 Majesty 93 nonID (not "Magic 93"), Falconer, p. 33
OH Geneva WDDX 104.9 m, "The Northern Light," Falconer, p. 33
OK Pawhuska KMYB 104.9 has \$, o, "Y-FM," Buntin, p. 31 [Falconer, p. 33
PA Erie WCKK 103.7 "K-Hits 104," / [p. 31
SC Kingstree WWKT 98.3 s, Sittel, / [31
TX Burkburnett KY11 104.7 \$[tereo], Buntin, p. / ON Hamilton CKLH 102.9 m, \$, Station Update, p. 33

Stereo, or to be stereo

[Always check for this characteristic when DX'ing]
AL Citronelle WKQR 101.9
AL Talladega WSSY-FM 97.5, m, "Sunny 97"
AK Fairbanks KING 95.9, k, back on air KWLX 98.1, [ock]
AZ Kearny KCDX 105.1, m
AZ Payson KRMM 101.1, k, not yet on
AR Brinkley KQMC 102.3, k
AR Gurdon KGAP 92.7
AR Malvern KBOK-FM 99.3
AR Mountain Home KCMH *91.5
AR Pine Bluff KPBO 101.3, k
CA Chester KCMT 98.9, m
CA El Cerrito KEGG *88.1, k
CA Garberville KMUD *91.1, et
CA Prunedale KLVW *89.7
CA Riverside KUCR *88.1
CA South Lake Tahoe KRLT 93.9
CO Frisco KYSL 92.1

CT Sharon WWPB 103.3
FL Key West WJIR *90.9
FL New Smyrna Beach WJLU *89.7
FL Perry WNFK 105.5
GA Adel WDDQ 92.1, op [with Athens
GA Crawford WGMG 102.1 m, "Magic 102," ID / GA Hawkinsville WCEH-FM 103.9
HI Hilo KWXX 94.7
KIPA-FM 100.3
ID Sandpoint KJDE 102.5
ID Twin Falls KAWZ *89.5
ID Elmhurst WMCB *88.7
IL Eureka WCRI 98.5, m
IL Joliet WCSF *88.7
IL Metropolis WREZ 105.5, m
IL Rantoul WLTM 96.1
IL Winnetka WINTH *88.1
IN Bloomfield WBGH 101.1, k
IA Brooklyn KSKB 99.3
IA Jefferson KLSN 98.9
KS Colby KTCC *91.9, r
KCLH 97.9, m
KS Kingman KAPH 99.3, r
KS Medicine Lodge KREJ 95.9, g
KY Bowling Green WWHR *91.7, r
KY Georgetown WVRV *89.9, c, "CBC Stereo," taking over frequency from WVBA *89.9 Frankfort, with which it shared time. They have almost no local programming; got an OK from the Canadian government to relay CBC stereo, according to former WTFDA member Ted Fleischer, now living in Lexington
KY Hazard WJMD 104.7
KY Lancaster WJNC 105.1
KY Manchester WTBK 105.7, r
ME Bangor WHSN *89.3
ME Kittery WYCD 105.3
ME Madawaska WCXX 102.3
ME Skowhegan WHQQ 107.9 o, "Oldies 108," but also some country oldies
MD Middleton WAFY 101.1
MA Framingham WDJM *91.3
MA Northfield WNMH *91.5
MA South Hadley WMHC *91.5
MI Mackinac City WSSW 94.3, m
MI Mount Pleasant WCZY 104.3, b
MI Roscommon WGRY-FM 101.1, k
MI Standish WSTD 96.9
MI Traverse City WLJN-FM *89.9
MN New Prague CHCK-FM 95.5, to be k
MN Owatonna KRFO-FM 104.9 k, "K-105 FM" (strict). "We went stereo April 15, and to an automated country format." Facilities to 4700 (h, 53 m),
MN Two Harbors WRSR 104.3, not yet on
MS Clarksdale WKDJ 96.5, k
MS Petal WMFM 106.3, gk
MS University WUMS 92.1, p
MS Vicksburg WBSV 101.1, k
MO Lamar KHST 99.9, k
MO St. James KZYQ 99.5
MO Sparta KLTQ 96.5
MO Washington KSLQ-FM 104.5, m
MT Great Falls KOZQ 100.3, b
MT Shelby KYCY 97.9
NE West Point KWPN-FM 107.9
NH Haverhill WYKR-FM 101.3
NH Hillsboro WRCI 107.1, k
NH Meredith WMRQ 101.5 [w, h, 5 m
NJ Lawrenceville WRRR *88.5; facilities are 17 / NJ Union WWRP *90.3
NJ Union WKUNJ-FM *90.3
NM Farmington KSJE *90.9, bt
NM Santa Fe KFSR *90.7, k
NM Silver City KSCQ 94.5, m
NY Brentwood WXBG *88.1
NC Elizabethtown WGOR 105.7
NC Griffon WVVY 99.5
NC Wadesboro WRPL 93.5, m
ND Wahpeton KWVB 107.1
OH Cadiz WEIR-FM 106.3
OH Lancaster WSWZ 103.5

OH Loudonville WBZW 107.7
OH New Concord WMCO *90.7
OH North Baltimore WHMQ 107.7
OH Uhrichville WTCU 99.9
OH Wilberforce WUZZ *89.9
OK Atoka KKCX 103.1
OK Lawton KCCU *89.3
OK Lindsay KBLP 105.1, k
OK Mangum KZKO 92.1, k
OR Bend KIDD-FM 98.3, m
OR Creswell KERT 95.3, k
OR Eugene KRVM *91.9
OR McMinnville KSLC *90.3
OR Medford KOPE 103.5, et
OR Sweet Home KSKD 107.1
PA Carlisle WDCV *88.3
PA Chester WDNB *89.5
PA Erie WERG *89.9
PA McDonnellburg WEMX 103.7, r
PA Shippensburg WSRV *88.7
PA Smithport WBRM 106.3, m
SC Ellore WNNY 100.3, i, oul
SC Hampton WHCF-FM 103.1, k
SC Newberry WNMX 106.3
SC Saint Andrews WMMF 102.3
SD Redfield KVCU 103.7
TN Cookeville WTTU *88.5
TN Humboldt WLSZ 105.3, r
TN Kms WCKS 93.7
TN Maryville WCAP-FM 95.7
TN Searsville WLKW 104.3
TX Cameron KCRM 103.9 (moving to, from 103.1; back on air, having been mono when it initially returned, mr, dropping Rockdale-Milano from its ID list
TX Couila KOCV 97.7
TX Hamilton KCLW 92.1
TX Jasper KJAS 100.7, k
TX Livingston KETX-FM 92.1
TX Mercedes KBOR-FM 106.3, Spanish, I
TX Robstown KMJQ 105.1
TX Weatherford KYXQ *89.5
UT Delta KLLG 95.7
UT Naphi KCDH 92.7, k
UT Roosevelt KBWL 98.5, m
UT Tooele KTFE-FM 92.1
VT Warren WBSH 96.1
VT Woodstock WMXR 93.9
VA Bridgewater WRDJ-FM 105.1
VA Broadway WLTK 95.5
VA Clinchco WDIC-FM 93.1, r
VA Grandview KARY-FM 100.9
WA Pullman KZZL 99.5, k, not yet on
WA Spokane KAGU *88.7, rj
WA Walla Walla KHSS 100.9
WV Beckley WJLS-FM 99.5 now k, and finally embracing \$[tereo]
WV Bridgeport WDCI 104.1, not yet on. Listed as mr, but rumor it may be a religious station.
WV Fairmont WRLF 94.3
WV Huntington WMUL *88.1
WV Moundsville WRPK 96.5, g
WV Salem WXKI 105.7, m
WV Laramie KIMX 105.5, b
WV Charlotte Amalie WIVI 96.1, c
VI Christiansted WAPV 94.3

Monophonic
AL Birmingham WGBB *91.9, for about 6 months now; remove \$ listing (not strict)
NC Sanford WDDC *90.5, still r, now "DC-90" / VA Appomattox WTTX-FM 107.1. For a while, both stations in Appomattox were monophonic, but WZST 102.7 has since converted
WV Lancaster WJTY *88.1, remove \$ listing; has never been stereo. The station will soon go silent for a while, because of "stray voltages" affecting cows on a nearby dairy farm. The station will be looking for a new site.

Format Changes

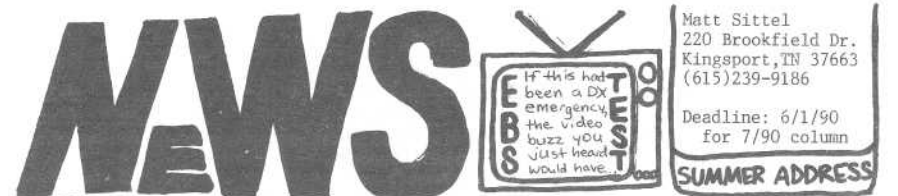
Formats are the same as in the "FM Atlas"
AL Abbeville WIZB o, mono
AL Birmingham WZRR 98.5 op
AL Dadeville WDWI *88.7 gr
WZLM 97.3 r, CHR, \$
AL Hamilton WERH-FM 92.1 mk
AL Russellville WZMX 97.7 op, "97 Rock" / AL Stevenson WVSV 101.7 k
AK Ketchikan KGTW 106.7 r, mono
AK Wasilla KMBQ 99.7 r (AC-oldies)
AZ Douglas KKRC 95.3 m
AZ Flagstaff KMGN 93.9 m, same "bird feed" as on KRFM 96.5 Show Low
AZ Glendale KKFR 92.3 rs [any r or top 40" / AZ Mesa KDKB 93.3 p, is "p period; did not hear" / AZ Parker KMDX 99.3 r
AZ Phoenix KPFF *88.3 g
KOY-FM 95.5 sr
KTLT 98.7 m, "The Lite"
AZ Prescott KNOT-FM 98.3 k
AZ Quartzsite KBUX 94.3 mr
AZ Sedona KOST 102.9 r, top 40
AR Camden KWEH 97.1 k
AR Greenwood KZKZ 106.3 op
AR Gurdon KGAP 92.7 k
AR Huntsville KFAY-FM 95.9 k
AR Newark KLLN *90.9 r
AR North Crossett KWLT 102.7 m
AR Pochontas KCYN 103.9 g
AR Stuttgart KZDX 105.5 m
AR Waldron KRWA 103.1 r, \$, returns to air
AR Walnut Ridge KRLW-FM 106.3 m, SMN
CA Alturas KYAX 94.5 k
CA Bakersfield KTIE 107.1 k, \$
CA Chester KRKO 105.3 m
CA Chico KZFR *90.1 to be on later this month with ej, etc.
CA Eureka KECU 105.5 s [Heat (CHR)
CA Johannesburg KRAJ 103.9 r, SMN / CA Kings Beach KBCH-FM 107.7 m, \$
CA Lake Arrowhead KBOB 103.9 o
CA La Quinta KBZT 96.7 o
CA Lemoore KQZY 104.9 o
CA Pasadena KPCC *89.3 mc, "they play very little jazz--mostly big bands and other music from the '20s and '30s in the afternoon, talk after that, and possibly classical music in the evenings"
CA Quincy KNLF 103.1 g
CA Red Bluff KDQJ 102.7 m
CA Rio Vista KR VH *101.5 r
CA Sacramento KYMX 96.1 m, "Mix 96"
CA San Francisco KABL 98.1 m
CA Sonora KTUO *99.1 r
CA Stockton KJOY 99.3 rj, lite rock with a jazz program 7 p.m. to 11 p.m., still "Joy 99 FM"
CA West Covina KB0B 98.3 r, monophonic
CO Rocky Ford KAVI-FM 95.5 r
CT Stamford WEDW-FM *88.5 cj
CT Willimantic WECS *90.1 cj
FL Gainesville WJLF *91.7 g
FL Monticello WJPH 101.9 m
FL Naples WBPT *89.5 gm
FL Springfield WYDO 101.9 m
FL Cairo W0BB 102.3 sr, "B-102"
GA Clarksville WMJE 102.9 m
GA Cleveland WGGa-FM 101.9 m (from rk)
GA Homerville WBTY 105.5 k
GA Royston WPUW 103.7 o, \$
HI Honolulu KIP0-FM *89.3, to be fj
KHFX 105.1 r
ID Mountain Home KLVJ-FM 99.1 r, \$
ID Weiser KWEI-FM 99.3 k
IL Chicago WCRX *88.1 sr, "dance music" (urban/hits), "similar to WLWU *88.7, only less professional and no jingles"
WLWU *88.7 sr
WOUJ *88.9 j, back on air. "Heard 4/13 playing jazz (mostly old stuff), signal only OK at Comiskey Park (barely .8 km from Illinois Institute of Technology campus). Only IDs on-hour."

IN Franklin WFCI *89.5 sr
KY Buffalo WRZI 101.5 k
KY Burkesville WKYR-FM 98.5 k
KY Cadiz WBZD 106.3 m, lite rock, \$
KY Hydenville WZQQ 92.3 r
KY Shelbyle WCKP 101.3 k
KY Winchester WLFX 100.1 m, still "Fox 100" / LA Fairchester WKJM 92.7 k
LA Menden KASO-FM 95.3 o
LA South Fort Polk KZRO 101.3 b
MI Benton Harbor WFBF-FM 99.9 r, "The New 99.9" (not strict), RPMusic on real-to-real
MI Coleman WSMZ 101.5 m
MI Detroit WDMC 104.3 o, "Oldies 104.3." This station has a "tremendous advantage, signal-wise, over The New Oldies 102.7, WKSG," and CKMR 93.9 Windsor-Detroit. "They promote this by mentioning callers from more distant communities. . . Three rock oldies stations cannot survive. It is a lot of trouble for a Canadian station to change format, so I expect WKSG to go first."
MI Kingsford WEL 98.1 g
MN Park Rapids KDKK 97.5 m, \$, "Starstation 97k." On 5:30 a.m. to 10:05 p.m., when they say, "Good night and pray for world peace." A nice-sounding station.
MN Rochester KNXR 97.5 still m, but asking audience for its support of its non-rock and non country format. "We have no plans to change our format. We do need your active help, however, in making sure our format remains as it is now."
MS Hazlehurst WMDC-FM 100.9 k
MS Louisville WLSM-FM 107.1 g (from rk)
MO Knob Noster KXXX 105.5 k
MO Mountain View KXOZ 96.9 m, Univ. AC
MT Great Falls KQDI-FM 106.1 rp
NE Sidney KSID-FM 98.7 m, Drake AC
NE Superior KRFS-FM 103.9 k, mono
NE Winnebago KSUX 105.7 k
NV Henderson KMZQ 100.5 m, back to "Class 100," from "The Q."
NH Hinsdale WYRY 104.9 m
NH Nashua KCDY 104.1 m
NY Ellenville WWWW 99.3, "K-Lite," ID with Middletown-Poughkeepsie-Newburgh NY Jeffersonville WJFF *90.5 c
NY Montour Falls WNGZ 104.9 op, "classic rock
NY Watertown WRVE *91.7 nj, \$, parallel to WRVO *89.9 Oswego
NY Wurtsboro WZAD 97.3 m
NC Asheville WKDB *91.3 g
NC Bayboro WJFS 97.9 k
NC Elkin WJFM 100.9 o
NC Shelby WMMG 96.1 o, "Oldies 96"
NC Thomasville WTHP 98.3 so, R&B oldies
NC Minot KBQQ 99.9 o, SMN Pure oldies
OH Circleville WTLT 107.1 g
OH Cleveland WQAL 104.1 m, soft AC
OH Columbus WBNS-FM 97.1 m, new age, "with a few old tunes mixed in and calling themselves "The New WBNS-FM."
OH Grove City (Columbus) WWCDC 101.1 p
OH Jackson WCJO 97.7 k, monophonic
OH Loudonville WBNZ 107.7 m, The Breeze
OH Marysville WRJR 105.7 sr, "Power 105.7"
OH Tiffin WTTT-FM 103.7 k
OK Oklahoma City KZBS 98.9 sr, still "Z-99"
OK Pawhuska KMYB 104.9 o, SMN
OR Bend KIDD-FM 98.3 m
OR Gold Beach KGBR 92.7 k
OR Hood River KCBR 105.5 r
PA Beaver Falls WVEB *88.3 rg
PA Grantham WVMW *90.7 gr
PA Milton WDEZ 100.9 m [100.7 FM"
PA New Kensington WMLX 100.7 sr, "Mix Jams"
PA Port Allegany WJWS 94.9 k
PA Sharpsville WHKY-FM 95.9 m, soft AC
SC Charleston WWSU 100.7 m, "Sunny"; \$7
SC Greenville WFBC-FM 93.7 back to rm (from

o), "The all new 'B-93.7 FM'"
 SD Aberdeen KAAA 94.9 o, SMN Pure
 KGIM-FM 106.7 k
 TN Columbia WKOM 101.7 o, SMN Pure
 TN Franklin WRLT 100.1 p, "Radio Lightning
 FM 100"
 TN Harriman WLIQ 92.7 k
 TN Knoxville WHGG *89.3 g
 TN Nashville WVEZ 92.9 mr, "95% vocals. I told
 them I missed the EZ listening. They had
 plenty of commercials and a good audience,
 but they said they are committed to the new
 format. So I will try one of your SCA
 modifications and if it works out, I'll tell my
 friends who miss the beautiful music to go for
 SCA." Off air for the next four or five months
 until new owners take over is WMSR-FM 99.7
 Manchester TN; new format not announced.
 TX Anson KKHR 98.1 o, with "Tejano" nights
 TX Austin KHFI 98.1 (having moved from 98.3)
 n, still "K-98"; now 211 m (100000 h,v)
 KPEZ 102.3 op, on with 20000 h,v; 209 m
 TX Brady KIXV 95.3 m, SMN
 TX Corpus Christi KLTG 96.5 o, "K Lite 96.5"
 TX Gonzales KPJN 106.3 k
 TX Midland KCRS-FM 103.3 m, "K-103"
 TX Ozona KYXX 94.3 off air, remove \$, music
 TX Plainview KATX 97.3 r, SMN
 TX San Angelo KTEO-FM 93.9 to be g
 UT Brian Head KREC 98.1 m, \$, ID with St.
 George and Cedar City
 UT Pleasant Grove KPGR *88.1 r
 UT St. George KZEZ 93.5 r, "some sort of"
 VA Ruckersville WXZY 92.1 m, "Foxy 92"
 VA Virginia Beach WJ01-FM 94.9 m
 VA Windsor WXRI 107.7 t, BRN business news
 WA Colville CKRK 92.1 m
 WA Ephrata KULE-FM 95.9 k
 WA Everett KSER *90.7 cj, applies for d-a
 WA Spokane KWRS *90.3 p
 WA Tappanish KHYY 92.9 o
 WV Bethlehem WHLX 105.5 b
 WV Cerado WCKV *88.5 rg
 WV Dunbar WBES-FM 94.5 b, Stereo?
 WV Romney WRZZ 106.1 r, CHR
 WV Rainswood WJJB 100.1 mr
 WI Ladysmith WLDY-FM 92.7 mk, mono
 WI Rhinelander WRHN 100.3 m, "The great soft
 hits that make the difference"
 WY Casper KOLT 107.3 o, SMN Pure
 WY Gillette KAML-FM 96.9 o, SMN Pure
 PR San Juan WRTU *89.7 cj
 PQ Rouyn-Noranda CHLM 96.5 r
 BJTijuana XHITZ 90.3 sr, "Jammin' Z-90"
 On Air (Selected)
 KY Lexington WUKY *91.3 with 95000 h,v; 306
 - m, d-a (3000 h,v; 91 m
 TX Yoakum KYOC 92.5 (from 102.3), still/
 Off Air or Not Yet On
 AZ Glendale KCWB 103.5
 AZ Phoenix KNAI/KPHF *88.3
 AZ Sedona KSED 107.5
 AZ Tusay KRBZ 92.1
 AR Stamps KMSL 100.5 (still on 100.1A)
 DE Bethany Beach WWTR 95.9, "pending
 move"
 KS Wamego KSKT 95.3 [bankrupt?]
 NE Auburn KAUB 105.5, "because the owner is/
 NM Lordsburg KXKK 97.7 or 97.8
 OK Nowata KNFB 94.3
 PA Muncy W215AF *90.9
 TN East Ridge WJRX 107.9
 TX Dallas KRSM *93.3, still on 88.5
 TX Denison KMKT-FM 104.9 still class A
 TX Jasper KWYX-FM 102.7, still on 102.3A
 TX Sonora KHOS-FM 92.1 (and AM), but was to
 have returned last month; KYXX 94.3 Ozona
 has been off for over a year. FCC has given
 them permission to stay off until license
 renewal time.

Deletions
 AK Seward K201AD *88.1
 AZ Red Rock K210AO *89.9
 AR Batesville KGED *88.1
 CA Borego Springs KBSH *88.9
 CA Fort Bragg KWSP *81.5
 CO Silverton KVFC 99.3
 FL Palm City WCIO *89.9
 FL Keaukua KCBC *90.9
 KS Phillipsburg KKAN-FM 95.3
 KY Frankfort WVBA *89.9, taken over by
 WRVG, now stereo, Georgetown KY
 MA Gardner WMWC *91.7
 MA Weston WRSS *88.3
 MN Owatonna KRPC *90.1
 MS Corinth WALP *90.5
 MO Kirksville KVCV 107.9
 NE Kimball KDOT 100.1
 NV Battle Mountain KLME *88.1
 NV Garlach KGLH *91.5
 NH Manchester WANH *90.7
 NJ Cherry Hill WBEK *88.1
 NJ Whippany WHPH *90.5 [grant
 NM Espanola K216BA *91.1, replaced by new/
 NY Sodas WSCS *89.5
 ND Williston KWYL 98.5
 OK Woodward 95.9
 OR Oakridge 92.1
 DR Sutherland KSRL 101.1
 TX Temple 101.7
 UT Midvale KQMB 102.7
 WV Charleston WYQC *89.5
 WI Crandon 96.7
 "Eagerly awaiting new FM Atlas. Pages 39-48
 and 121 to 152 have fallen out of mine. So
 maybe Lucky 13 will have an easier life!"
FMistakes, FM Atlas-13
 CA Grass Valley stations out of sequence, p. 103
 Perry WPGA-FM 100.9 is in GA, not FL, p. 172.
 UT St. George *91.7 KRDC add to p. 68 map
SCServices, 57, 67 and 92 kHz
 (Selected items only)
 CA Los Angeles KKG0 105.1 still has Muzak, 67.
 Its jazz for KKG0 AM 540 is on an ACBS
 SCA at about 75 kHz, and not receivable on
 ordinary SCsets.
 TX El Paso KBNA-FM 97.5 no SCS
 TX Laredo KBNL *89.9 tG, 87. "Unlike most
 stations which put a foreign language on a
 subchannel, we have gone to all Spanish on
 our main channel and English (Moody
 network) on our 67 kHz subchannel."
 DOMINICAN REPUBLIC Alto Bandera HILR
 105.5 TT, "occasional audio," 67
 DR El Mogote HDIV 97.9 TT, "occasional
 audio," 67
 HIBI 102.3 TT, "occasional audio," 67
 DR Santo Domingo HIOG 97.5 tM, 67 (new
 service)
 HIXZ 99.5 tM, 67 (preexisting)
NonIDs, Not Just Slogans
 AZ Wickenburg KTIM-FM 105.3 Time, still m
 (big bands)
 NJ Atlantic City WAYV 95.1 Hot 95
 NC Fairmont WZYZ 100.9 Rock-101, ID with
 Lumberton-Dillon (SC)
 NC Williamston WHITE 103.7 Hot 104, ID with
 Washington-Greenville, still mr
 PA Elizabethtown WYGL-FM 100.5 Wiggle-100
 SC Florence WYNN-FM 106.3 Win 106 FM
 SC Kingstree WWKT 98.3 Magic 98
 TX Dallas KZPS 92.5 Classic Rock 92.5 (said
 without call letters)
 TX Llano KLLM 104.9 Easy 105
 TX Waco KWTX-FM 97.5 All Hit 97-FM (from
 "97-FM") (back to, \$
 VA Appomattox WZST 102.7 Star 102.7/
 VA Martinsville WROV-FM 96.3 96.3-ROV
 VA Richmond WMBX 103.7 B-103 (not

"B-103.7")
 SK Saskatoon CHSN 102.1 Sun 102 FM, to have
 come on last month in \$
**AM Happenings Most Likely Caused
 by FM (Selected)**
 HI Pearl City KIPO 1380 sold to HI Public Radio,
 becomes noncommercial
 AM not even adequate for sports coverage?
 WABI 910 AM Bangor ME is getting static from
 listeners for taking the Maine hockey broadcasts
 away from WBWG 87.1. A listener in Searsport
 ME writes to the newspaper: "The reception is
 terrible. The University of ME takes pride in
 mentioning how far fans travel to watch a game
 at Alford Arena, and my guess is that a large
 number live more than 48 km away. . . I urge the
 U. of ME to reconsider its choice of stations for
 next season's broadcasts. Those of you who buy
 advertising on WABI for hockey games might
 also want to reconsider. It would appear your ads
 may be reaching fewer people than you had
 expected." [been oldies
 MO Springfield KICK 1340 silent/
 NY Syracuse WNNR 1490, before that WAQX
 AM and WOLF, still off the air. "Talk has it that
 1490 will resume transmitting; yet the station's
 property has 'for sale' signs around the perimeter
 of its premises. . . It's also been said the owner is
 still planning to switch from 1490 to 1510 kHz
 with 50,000 watts directional, but daytime only.
 Only time will tell." (news, talk
 NY Schenectady WVKZ 1240 drops r musicfor/
 NC Greenville WBZQ 1550 silent; was g
 SC Hilton Head Island WHHR 1130 drops b and
 FM simulcast for travel data as a commercial
 beacon
 ON Kingston CFRC *1490 AM deletes in favor
 of FM (see "Call Letters," above)
 ON Mississauga CJMR now on 1320 with 10 kw
 day and night. It had been Canada's last
 daytime-only AM radio station, taking over the
 spot vacated when CFGM Richmond Hill ON
 moved to 640. CJMR had been on 1190.
 Canadian AM broadcasters are concerned about
 proposed CRTC FM policy, feeling that the
 erosion of listeners will be accelerated. "The
 CRTC's FM regulations are credited by many
 with keeping Canadian AM radio considerably
 healthier than its U. S. counterpart."
 AM freeze imposed by FCC. As of April, FCC
 stopped accepting applications for new AM
 stations or changed AM facilities.
**Low Power FM Alive and Well in North
 America Despite FCC Translator Setback**
 Tanagerbrg Developments, Ltd./Heritage
 Messages will operate French and English-
 language systems in the Montreal area on
 FM at 2 watts (200 milliwatts). The
 transmitters are to be placed at historical
 sites to broadcast prerecorded messages
 describing the specific sites, with licenses
 expiring Aug. 31, 1994. My guess is that
 they will be on 89.9 m, one of the
 frequencies Radius International transmitters
 operate on (see Feb., p. 7, col. 3).
 Eric Silverman's MHS Holdings has proposed
 an FM travelers' service, initially to be
 in the Charlotte NC area. He'd use five
 transmitting sites along a 40-km, X-shaped
 stretch of Interstate 77 and 85 in Charlotte
 on 92.7 with vertical polarization and
 directional beams with ERPs up to 84
 watts. Programming could be like a Travelers
 Information Station, and include
 commercials for area businesses directed
 to the traveling public. By appealing to
 such a narrow segment of the public,
 "we'd be creating new radio dollars, not
 affecting the present radio dollar. We're
 going for a whole different segment of
 the market. I don't think other stations in
 73, b.a.



Matt Sittel
 220 Brookfield Dr.
 Kingsport, TN 37663
 (615)239-9186
 Deadline: 6/1/90
 for 7/90 column
SUMMER ADDRESS

MAY 1990

I'm happy to report that this time I'm not the only reporter to the column. I thank the people who took time to report for this column, including new reporter Jeff Falconer. Note the address, effective May 8th, 1990. It will be in effect until August 18, 1990. When I return to Raleigh next fall I will have a different address than I have had in Raleigh. Also, that new address may be changed again during the fall, so watch for more information. Now, let's get started with the column...

Jeff Falconer, VE3LSK, Box 63, Clinton, ON N0M 1L0 CANADA
 Here's some info for your NeWS column in the VUD:

MARCH 1990

13 gw	1409	XLT839	.475	ON	Goderich	12	Goderich and Oil Springs above are
tr	1412	KHB59	.550	OH	Cleveland	175	new stations which are operated joint-
	1413	XJV492	.400	ON	Oil Springs	60	ly by Environment Canada and the
	1419	KHB57	.400	OH	Castilla	165	Department of Search & Rescue. Both

will go into full operation April 1. Oil Springs is 100 watts. I have heard about 20 different NWS stations here the past few years and promise to report regularly. 73, Jeff. (Jeff-I'm confused on KHB57. I have a listing for a KHB97 in Sandusky. Are those new calls for that station, or is it a new station?-mcs)

Matt Sittel, NWS News Editor

FEBRUARY 1990

01 tr	0830	KEC85	.400	GA	Savannah	298	22 tr	2305	KEC84	.400	NC	New Bern	104
	0906	WXL42	.400	NC	Winston-Salem	88	26 tr	2300	unID	.400			
	0927	WXJ22	.550	SC	Florence	116	MARCH 1990						
	1217	?????	.475	SC	Cross	192	01 tr	0927	KEC95	.400	SC	Myrtle Beach	123
	1218	WXL59	.475	NC	Rocky Mount	66		2320	KEC84	.400	NC	New Bern	104
03 tr	1051	WXL42	.400	NC	Winston-Salem	88	02 tr	0620	WXL42	.400	NC	Winston-Salem	88
	1102	WXJ22	.550	SC	Florence	116	11 tr	2342	WXL42	.400	NC	Winston-Salem	88
04 tr	1729	KHB31	.550	NC	Wilmington	116	13 tr	0901	WXL42	.400	NC	Winston-Salem	88
	1731	KEC95	.400	SC	Myrtle Beach	123		0903	KIG77	.475	NC	Cape Hatteras	187
05 tr	0837	KHB31	.550	NC	Wilmington	116		2103	WXL42	.400	NC	Winston-Salem	88
	0837	WXL42	.400	NC	Winston-Salem	88	14 tr	0456	WXJ22	.550	SC	Florence	116
	0849	KEC95	.400	SC	Myrtle Beach	123		0728	KEC95	.400	SC	Myrtle Beach	123
08 tr	0825	WXL42	.400	NC	Winston-Salem	88		1957	KEC95	.400	SC	Myrtle Beach	123
09 tr	0802	WXL42	.400	NC	Winston-Salem	88		2230	KHB31	.550	NC	Wilmington	116
	2348	KEC95	.400	SC	Myrtle Beach	123		2231	WXM65	.525	GA	Baxley	328
13 tr	0844	KEC95	.400	SC	Myrtle Beach	123	15 tr	0321	WXL42	.400	NC	Winston-Salem	88
14 tr	0803	WXL42	.400	NC	Winston-Salem	88	17 tr	2237	WXL42	.400	NC	Winston-Salem	88
16 tr	0059	KEC95	.400	SC	Myrtle Beach	123	19 tr	0808	KEC95	.400	SC	Myrtle Beach	123
	1757	WXL42	.400	NC	Winston-Salem	88	21 tr	0801	unID	.400			
17 tr	0801	WXL42	.400	NC	Winston-Salem	88	22 tr	0247	KEC95	.400	SC	Myrtle Beach	123
19 tr	2132	WXL42	.400	NC	Winston-Salem	88	23 tr	0513	KEC95	.400	SC	Myrtle Beach	123
	2253	unID	.400					0730	WXJ22	.550	SC	Florence	116
21 tr	0738	KEC95	.400	SC	Myrtle Beach	123		0732	WXL20	.400	SC	Columbia	173
	0754	KHB31	.550	NC	Wilmington	116	28 tr	0741	KHB31	.550	NC	Wilmington	116
	0824	WXL42	.400	NC	Winston-Salem	88		0741	KEC95	.400	SC	Myrtle Beach	123
22 tr	1850	WXL42	.400	NC	Winston-Salem	88		0741	WXL59	.475	NC	Rocky Mount	66
	2147	KHB31	.550	NC	Wilmington	116	31 tr	2224	WXL42	.400	NC	Winston-Salem	88
	2148	KEC95	.400	SC	Myrtle Beach	123							

First, my logging last column of KHB29 in Charleston was in error. Actually that station was WXLJ22 in Florence. For the record, Florence//Myrtle Beach//Cross//Beaufort//Charleston. A confusing situation as the stations rarely ID. (An ID helped me figure out I had Florence.) Now the only "missing" NWS I need is Charlotte. Cape Hatteras was a tough logging, as it was very weak. Baxley was nice to hear again. Overall a productive two months of NWS DX. Bill Nienajadly writes: "I got a PRO-57 scanner awhile back and picked up Atlantic City wx on trs in late Jan. est. 106 mi. Heard not much else but I'm up to 2 stations already: KW035 NYC + AC, NJ. Whoopee! GoodXing, Bill." Thanks for writing, Bill! Kurt Richardson sent me an article that says Syracuse, NY had more snow than any other city in the 1980's. The top 5: 1. Syracuse, NY: 1,075.3", 2. Rochester, NY: 879.9", 3. Buffalo, NY: 850.1", 4. Cleveland, OH: 649.4", 5. Minneapolis-St. Paul, MN: 623.3". Thanks for the article, Kurt! 73's M

NEXT TIME: I'll sum up year #2 in Raleigh, and hopefully have something from you!!

QSL CORNER & LOGOS RUN

Thomas J. Yingling, Jr., KA3TCC
221 Pinewood Road
Baltimore, MD 21222-2345
Phone # 301-282-5649

QSL's QSL's QSL's QSL's QSL's QSL's QSL's

CO KUVU 89.3 Denver, P. O. Box 11,111 zip 80211. Letter from Florence Hernandez-Ramos, General Manager. (B.Elving-Esko,MN)
IL KPLW 102.7 Northwood, 839 1/2 Central Ave., zip 50459. Letter from Martin R. Hanson who says Oskaloosa, IA was the farthest they had heard from before I wrote. (B.Elving-Esko,MN)
MN K208BQ 89.5 Brainerd, X KAXE-FM, 1841 E.Hwy. 169, Grand Rapids, MN 55744-3398. Letter from Marshall Oetmann, Program Director who says "As far as I know this is the most distant reception for K208BQ, operating for testing since early July '89." (B.Elving-Esko,MN)
MN KBPR 90.7 Brainerd & KMSR 88.9 Collegeville, X St. John's University, Collegeville, MN 56321. Both qsl'ed in 1 letter from John R. McTaggart, General Manager. Mentioned KNRS has its tower near Richmond, MN while KBPR transmits from Pillager, MN. Send bumper stickers, and in same letter I reported new KRSU 91.3 Appleton, MN but station not verified, probably is administered from different office. (B.Elving-Esko,MN)
MN W28OCT 103.9 Hermantown, X WCDK-FM, P. O. Box 954, Virginia, MN 55792. Letter from Frank Befers, President of K-100. He mentions how they identify the translator as "You're listening to 103.9 fm digital W280 CT Hermantown and 99.9 fm digital K100." (B.Elving-Esko,MN)
MN KQEG 102.7 LaCrescent, X 505 King St, Ste. 221, LaCrosse, MN 54601. Letter from Perry St. John, VP of Operations, mentions transmitter in MN & studios in WI. Also send refrigerator magnet too. (B.Elving-Esko,MN)
WI WMGU 104.9 Stevens Point, P. O. Box

806, zip 54481. Letter from Erich Westenberger, CE in 5 months. (B.Elving-Esko,MN)
DE WSTW 93.7 Wilmington, 2727 Shipley Rd., zip 19803. Letter, coverage map, bumper-sticker, & station info in 22 days from Bill Blatz, Asst. CE K30N0. He mentions an Continental 813 transmitter at 24 kw into an 8 bay circ polarized antenna at 333' for erp of 50 kw. (J.Falconer-Clinton,Ont)
OH WKTL 90.7 Struthers, X Struthers High School, zip 44471. Friendly hand written letter on back of my report with coverage map in 12 days from Sharon T. Chalfin, Senior Radio Teacher. (J.Falconer-Clinton,Ont)
ON CFLY 98.3 Kingston, Box 1380, 99 Brook St., zip K7L 4Y5. Letter & map in 17 days from Albert Aufleger. (J.Falconer-Clinton,Ont)
ON CFMO 93.9 Ottawa, 150 Isabella St., zip K1S 5A3. Send qsl card & CFRA-580 AM sticker in 11 days from W. G. Roach, CE VE3BNO. (J.Falconer-Clinton,Ont)
ON CHFI 98.1 Toronto, 25 Adelaide St. E., Zip M5C 1H3. Letter & map in 9 days from Cynthia Gordon, Engineering Secretary. (J.Falconer-Clinton,Ont)
TN WXBO 96.9 Bristol, X Box 1389, Bristol, VA zip 24203-1389. Letter, bumper sticker in 86 days from Patrick Vaughan Glover, CE. Mentions using a Collins 831G-2 transmitter atop Holston Mountains [2500' haat] in East Tennessee. (J.Falconer-Clinton,Ont)
OH W22AE 22 Bucyrus, P. O. Box 839, zip 44820. Send skeds (for W54AF & W22AE) & letter from Kevin J. Pifher, Acct. Exec. in 19 days. (M.Reid-North York,Ont)
NY WMHX 45 Schenectady, Box 17, zip 12301-0017. Card in 10 days from Ken Britton, CE. (M.Reid-North York,Ont)
FL WSFP 901. Fort Myers, X WUSF/WSFP Broadcasting, University of South Florida, 4202 Fowler Ave., SVC 116, zip 33620-6800. Letter from James B. Heck, General Manager in 2 weeks verifying my meteor reception of WSFP. (R. Strobel-Muncie, IN)

735
Tom

WCHK-105.7-FM
Atlanta's New Country
Serving Georgia's Fastest Growing County... Cherokee

34 WNI-TV
P.O. Box 3434, Elkhart, IN 46515-3434

MUZAK SPECIALISTS IN THE PHYSIOLOGICAL AND PSYCHOLOGICAL APPLICATIONS OF MUSIC

49.3 MHz

FM FREQUENCY MODULATION **W4XFM** MEGACYCLES

In cooperation with engineers of the Federal Communications Commission, Voice of Alabama, Inc., operators of Radio Station WAPI, broadcasts certain test programs over W4XFM. Developmental Frequency Modulation (FM) Station located on Red Mountain. If you have an FM radio, will you report reception? If some friend has an FM radio, please pass the information along.

ON THE AIR
Saturdays
2 - 6 P.M.

VOICE OF ALABAMA, INC.
BIRMINGHAM

CALL LETTERS	POWER	CLASS	TYPE
LA	5000W	FM	TV
2	5000W	FM	TV
3	5000W	FM	TV
4	5000W	FM	TV
5	5000W	FM	TV
6	5000W	FM	TV
7	5000W	FM	TV
8	5000W	FM	TV
9	5000W	FM	TV
10	5000W	FM	TV
11	5000W	FM	TV
12	5000W	FM	TV
13	5000W	FM	TV
14	5000W	FM	TV
15	5000W	FM	TV
16	5000W	FM	TV
17	5000W	FM	TV
18	5000W	FM	TV
19	5000W	FM	TV
20	5000W	FM	TV
21	5000W	FM	TV
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36	5000W	FM	TV
37	5000W	FM	TV
38	5000W	FM	TV
39	5000W	FM	TV
40	5000W	FM	TV
41	5000W	FM	TV
42	5000W	FM	TV
43	5000W	FM	TV
44	5000W	FM	TV
45	5000W	FM	TV
46	5000W	FM	TV
47	5000W	FM	TV
48	5000W	FM	TV
49	5000W	FM	TV
50	5000W	FM	TV
51	5000W	FM	TV
52	5000W	FM	TV
53	5000W	FM	TV
54	5000W	FM	TV
55	5000W	FM	TV
56	5000W	FM	TV
57	5000W	FM	TV
58	5000W	FM	TV
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67	5000W	FM	TV
68	5000W	FM	TV
69	5000W	FM	TV
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71	5000W	FM	TV
72	5000W	FM	TV
73	5000W	FM	TV
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92	5000W	FM	TV
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94	5000W	FM	TV
95	5000W	FM	TV
96	5000W	FM	TV
97	5000W	FM	TV
98	5000W	FM	TV
99	5000W	FM	TV
100	5000W	FM	TV

WTOG

44

365 105th Terrace NE
St. Petersburg, Florida 33716

42

WPCQ-TV 36

WTOC-TV
P.O. BOX 8086
SAVANNAH, GA. 31412-8086

WEAR 3
P.O. Box 12278 • Pensacola, FL 32581

Ctn

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WISV 10
VIRGINIA

WJHG-TV

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PANAMA CITY, FLORIDA 32402

wala-tv
knight-riddler
broadcasting inc.
p.o. box 1548, mobile, alabama 36633

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DURHAM N.C. 27702
FLORIDA WEST COAST PUBLIC BROADCASTING, INC.
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5th Anniversary

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SAN DIEGO'S OWN GREAT "FREE MOVIE" CHANNEL

TV 46
KHSC

PM XETV 3
SEE THE DIFFERENCE

YOUR HOMETOWN STATION
WDBJ 7



STATISTICS

FRED NORDQUIST
7945 BOXFORD RD
CLAY, NY 13041
DEADLINE: THE 5TH

UPDATED 5/1/90 FM SCOREBOARD

DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS	OF:
DYER	PAT TX SAN ANTONIO	2317	378	1898	51	0	44*	3	21	5	74	70	10/31/89	
BUMTIN	DANNY OK STILLWATER	1829	309	1085	4	0	48*	5	9	2	65	74	04/02/90	
STROBEL	RALPH IN MUNCIE	1725	477	492	124	6	43*	7	2	0	53	72	01/01/90	
ELVING	BRUCE MN DULUTH	1662	289	1322	9	8	45*	3	1	0	50	48	12/07/89	
EBELING	JOHN MN BLOOMINGTON	1604	269	923	46	82	47*	6	5	0	59	52	01/01/90	
NORDQUIST	FRED NY CLAY	1475	287	715	41	58	41*	5	0	2	49	69	05/01/90	
FELA	JOSEPH NJ S. PLAINFIELD	1463	306	778	2	9	37*	6	0	3	47	68	08/18/89	
BUGAJ	MIKE CT ENFIELD	1423	198	748	15	23	37*	3	0	1	42	74	04/03/89	
PUGH	KEITH AL NEW HOPE	1321	213	682	29	3	43*	7	9	2	62	83	08/04/89	
NIEMAN	DAVID NY AKRON	1320	359	403	47	23	43*	8	0	3	55	59	12/11/89	
MCCORMACK	FRED ND DES LACS	1110	145	803	26	87	44*	6	4	0	55	65	04/09/88	
MCCORMACK	FRED ND FARGO	1099	199	759	3	52	47*	6	3	0	57	74	04/09/88	
JEFFERSON	JOHN CA ANTIOCH	1058	229	620	150	0	29	4	5	0	38	57	07/26/89	
EBELING	JOHN MN PROSIT	1053	192	705	3	5	48*	8	2	0	59	75	01/01/90	
HOWINGTON	CARLON FL ST PETERSBURG	1002				39*				13	87	12/01/89		
CONIGLIO	GREG NY WILLIAMSVILLE	974	181	506	6	9	36*	8	0	2	47	85	01/03/90	
HOLBROOK	HANK MD CHEVY CHASE	859	220	232	18	0	35*	6	0	3	45	59	12/06/89	
SHOLAREK	BOB NJ OLDWICK	818	138	344	0	0	36*	3	0	1	41	78	09/12/89	
BRUMFIELD	DAVE IN RICHMOND	778	151	240	13	0	42*	4	2	0	42	81	03/01/90	
NICHALEX	ALAN MA SPRINGFIELD	747	100	452	0	0	36*	5	0	0	42	52	04/03/89	
STEINBERGER	RICHARD MA HUDSON	703	147	323	12	6	35*	4	0	0	40	58	10/28/89	
NOLLMAN	BILL CT NORWICH	686	83	294	20	0	35*	5	0	0	41	81	11/04/88	
BRUMFIELD	DAVE IN MUNCIE	682	149	65	1	0	29	1	1	0	31	79	03/01/90	
ROSS	ROBERT ON LONDON	578	160	230	0	0	32	6	0	2	40	76	08/06/89	
KRETSCHMER	BILL NY N. SYRACUSE	564	97	128	1	1	35*	3	0	1	40	74	09/07/89	
ALLEN	DOUGLAS CO WOODLAND PARK	446	76	332	19	0	37	3	1	0	41	88	09/15/89	
HEADE	LARRY IL CHICAGO	437	80	63	5	0	22	2	0	0	24	79	11/26/89	
NIENAJADLY	BILL NJ CLIFTON	338	78	69	5	0	29	2	0	0	32	75	02/03/90	
SCHWEITZER	BOB NJ E. BRUNSWICK	266	78	7	0	0	11*	0	0	0	12	77	04/01/88	
HEPBURN	WILLIAM ON MISSISSAUGA	251	93	62	1	0	24*	1	0	1	27	79	02/04/90	
MANCUSO	GUS MD CHEVERLY	216	32	20	0	0	16*	0	0	0	17	70	08/04/89	
WHEELER	FRANK PA ERIE	160	23	1	0	0	8	1	0	0	9	64	03/13/89	
STRICKERT	MARK IL CHICAGO	153	38	8	0	0	5	2	0	0	7	79	10/17/89	
SCHWEITZER	BOB NJ OLD BRIDGE	146	41	0	0	0	9*	0	0	0	10	82	04/01/88	
SITTELL	MATT NC RALEIGH	137	19	0	0	0	4	0	0	0	4	88	03/19/90	
SORENSEN	MORRIS ON MILTON	136	27	24	0	0	16	1	0	0	17	83	08/29/89	
SORENSEN	MORRIS ON PORT CARLING	131	20	21	0	1	15	2	0	0	17	71	08/29/89	
RENFREW	JIM NY ROCHESTER	126	25	1	0	0	3	2	0	0	5	76	08/10/89	
ONYSCHUK	KEN IL COUNTRY CLUB HIL	124	25	1	0	0	7	0	0	0	7	68	02/01/90	
HEPBURN	WILLIAM NT CORAL HARBOUR	58	5	57	0	0	5	8	0	0	13	84	02/12/89	

* VERIFIED.

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es = Total number of stations logged via E-skip. MS = Total by meteor scatter. Au = Total via Aurors. USA = Total number of states and the "*" = Washington, DC. CN = Number of Canadian provinces logged. MX = Number of Mexican states logged. FO = Number of foreign countries, but not Canada or Mexico. TPU (Total number of political units) = Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in AUGUST 88 VUD Page 48. Note: Above entries were updated since 1988. Please submit your updates to keep this FM Scoreboard current. 73 - Fred.

FM STATISTICS - PERSONAL BEST'S

Bill Niensjadly - Clifton NJ (2/3/90)
Farthest Tr: WABG-103.3 WA 415 Mi.
TrS: MLTJ-92.9 PA 311 Mi.
Totals: Pirates 5, Translators 3.
Closest unheard states: OH & MI.

Matt Sittell - Raleigh NC (3/19/90)
Farthest FM logged: WIOI-100.7 BA 358 Mi.

Joseph Fela - So. Plainfield NJ (8/18/89)

Shortest Es logged: WPEE-96.7 (now WCDZ) KY 549 Mi.

STATES STATES

JUN 90

USA

FM STATISTICS

PU	#	DXER	#	DXER	IPU	#	DXER	#	DXER	IPU	#	DXER	#	DXER	I
AL	54	TMC-	51	JEB-	ILA	72	RSA-	51	PDY-	IDM	199	RST-	177	FME-	I
AK	11	JJE3	0	None	IME	40	RST2	20	WMO-	IOK	121	DBU-	51	FNO-	I
AZ	48	PDY-	32	JJE2	IMD	51	JFE-	48	GMA-	IOR	31	JPI-	20	JJE2	I
AR	86	DOD-	61	VEA-	IMA	94	RST2	77	MBU-	IPA	153	DNI-	128	FNO-	I
CA	333	JJE2	120	PDY-	IMI	140	RST-	139	FME-	IRI	14	WMO-	12	RST2	I
CO	82	DAL-	67	JJE2	IMM	160	JEB-	146	JEB2	ISC	50	PDY-	45	DBU-	I
CT	49	MBU-	41	ARI-	IMS	64	TMC-	46	FNO-	ISD	31	FNC-	31	PDY-	I
DE	11	SME-	10	DOE-	IMO	89	FME1	84	DBU-	ITM	93	JAY-	82	TMC-	I
FL	144	DBU-	133	PDY-	IMT	28	JJE2	25	JPI-	ITX	274	PDY-	211	RSA-	I
GA	78	PDY-	65	DBU-	INE	44	JJE2	33	PDY-	IUT	29	PDY-	21	DBU-	I
HI	0	None	0	None	INW	24	PDY-	18	DBU-	IUT	13	RST2	12	WBU-	I
ID	26	DBU-	26	PDY-	INH	27	RST2	16	AMI-	IWA	56	DBU-	53	JFE-	I
IL	179	FME1	179	RST-	INJ	73	JFE-	61	RSC-	IWA	33	FNC2	30	JJE2	I
IN	167	RST-	112	DBR-	INM	45	JJE2	36	RST-	IWV	37	RST-	33	FNE-	I
IA	120	RBR-	97	JEB-	INY	197	FNO-	165	DNI-	IWI	132	BEL2	120	JEB-	I
KS	87	DBU-	54	JJE2	INC	94	RS11	77	PDY-	IWY	23	PDY-	22	RST-	I
KY	87	RST-	56	PDY-	IND	34	FNC-	33	FNC2	IDC	13	GMA-	13	DNI-	I

KEY TO DXER INITIALS/LOCATION

AMI-	ALAN	NICHALEX	MA	SPRINGFIELD
BEL2	BRUCE	ELVING	MN	DULUTH
DAL-	DOUG	ALLEN	CO	WOODLAND PARK
DBR-	DAVE	BRUNFIELD	IN	MUNCIE
DBU-	DANNY	BUNTING	OK	STILLWATER
DNI-	DAVID	NIEMAN	NY	AKRON
DOB-	DAVID	ODELL	AR	LITTLE ROCK
DOE-	DANIEL	OETTING	PA	BROOMALL
FNC-	FRED	MCCORMACK	ND	DES LACS
FNC2	FRED	MCCORMACK	ND	FARGO
FME-	FRANK	MERRILL	MI	NILAN
FME1	FRANK	MERRILL	IL	MACOMB
FND-	FRED	HORDQUIST	NY	CLAY
GMA-	GUS	MANCUSO	MD	CHEVERLY
JAY-	JIM	AYERS	TN	MURFREESBORO
JEB-	JOHN	EBELING	MN	BLOOMINGTON
JEB2	JOHN	EBELING	MN	PROSIT
JFE-	JOSEPH	FELA	NJ	S PLAINFIELD
JJE2	JOHN	JEFFERSON	CA	PLEASANTON/ANTIOCH
JJE3	JOHN	JEFFERSON	AK	ANCHORAGE
JPI-	JIM	PIZZI	NH	LOWINGTON
JPI1	JIM	PIZZI	CA	ORCUTT
LME-	LARRY	MEADE	IL	CHICAGO
MBU-	MIKE	BUGAJ	CT	ENFIELD
MS11	MATT	SITTELL	NC	RALEIGH
MS1-	MATT	SITTELL	TN	KINGSPORT
PDY-	PAT	DYER	TX	SAN ANTONIO
RBR-	ROGER	BROWN	IA	AMES
RSR-	RICK	SANFORD	TX	BURNETT
RSC-	ROBERT	SCHWEITZER	NJ	E BRUNSWICK
RSR-	ROBERT	SHOLAREK	NJ	OLDWICK
RST-	RALPH	STROBEL	IN	MUNCIE
RST2	RICHARD	STEINBERGER	MA	HUDSON
SCH-	SAUL	CERNOS	OH	BURNT RIVER
SME-	STEVE	WEST	PA	HAVERTOWN
TMC-	TIM	MCVEY	TN	BOLIVAR
VEA-	VERNON	EATON	AR	BENTON
WHE1	WILLIAM	HEPBURN	OH	CORNWALL
WHE2	WILLIAM	HEPBURN	NT	CORAL HARBOR

CANADA/MEXICO/FOREIGN STATS

PU	#	-DXER	#	-DXER	IPU	#	-DXER	#	-DXER	IPU	#	-DXER	#	-DXER	I
CANADA															
AB	26	JJE2	24	JEB2	ICHI	6	JPI-	6	FNC-	ISLP	2	TMC-	0	None	I
BC	20	JJE2	8	JEB2	ICHP	3	PDY-	0	None	ISDN	3	JJE2	3	PDY-	I
MB	15	FNC-	13	FNC2	ICDA	6	JPI1	6	PDY-	ITAB	2	TMC-	2	PDY-	I
NB	9	FME1	6	RST-	IDF	21	TMC-	21	JPI-	ITAM	7	PDY-	5	MS1-	I
NF	13	FNO-	12	DNI-	IDUR	1	JPI-	0	None	IUCZ	9	JPI-	5	TMC-	I
NS	15	FME1	8	JFE-	IGRO	5	PDY-	1	JPI-	IYUC	2	JPI-	2	PDY-	I
ON	104	DNI-	75	FNO-	IGTO	9	JPI-	2	TMC-	I					I
PEI	2	JFE-	2	RST-	IHGO	1	JPI-	0	None	IFOREIGN					I
PQ	28	FME1	24	DNI-	IJAL	12	TMC-	10	PDY-	ICUBA	5	FME1	3	JFE-	I
SK	8	FNC-	8	FNE1	IJEX	3	JPI-	3	PDY-	IBELIZ	3	PDY-	1	JPI-	I
SX	8	FNC-	8	FNE1	IJEX	3	JPI-	1	PDY-	IBERMU	3	DNI-	2	FNO-	I
NWT	1	WHE2	1	JEB2	INIC	3	JPI-	1	PDY-	IEL SA	4	PDY-	1	KSI-	I
MEXICO															
AGU	1	JPI-	0	None	IOAX	1	JPI-	1	PDY-	IHDNDU	2	KSI-	2	PDY-	I
BCN	14	PDY-	10	FNC-	INAY	1	PDY-	0	None	IJAMAI	3	JPI-	2	MS1-	I
BCS	1	PDY-	0	None	IPUE	5	PDY-	4	TMC-	IPUER	4	KSI-	1	DNI-	I
CAM	1	JPI-	0	None	ISIN	2	JJE2	1	DBU-	ID. REP	1	KSI-	0	None	I

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH POLITICAL UNIT (PU) LOGGED FROM A SINGLE SPECIFIED DXER'S LOCATION. FIRST AND SECOND PLACE DXERS ARE LISTED ONLY. OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED DUE TO SPACE CONSTRAINTS.....(FJN).

FM STATISTICS - CHANNEL METRICS

Pat Dyer - San Antonio TX (10/31/90)

FM Totals stats - by Frequency:

Mhz	1	3	5	7	9	Total
88	31	30	34	24	29	149
89	29	25	25	23	20	128
90	15	12	15	9	7	58
91	13	9	11	11	3	43
92	22	33	38	44	2	139
93	17	35	61	30	24	167
94	42	43	38	20	38	181
95	35	52	35	30	21	173
96	19	14	36	41	33	143
97	18	2	20	54	35	129
98	27	33	34			

ANARC UPDATE

ANARC'S NEW MANAGEMENT

ANARC has a new leader! Executive Secretary, Bob Horvitz resigned in March due to work commitments. Bob works for the Whole Earth Review and has agreed to take on several extra assignments for the magazine. "There aren't enough hours in a day to manage ANARC and at the same time fulfill my commitment to the Whole Earth Review" was the reason Bob gave for his sudden resignation. Sheldon Harvey has been chosen by the Executive Board to be the interim coordinator.

The last two years with Bob as Executive Secretary have seen ANARC grow and become active in representing the needs and views of the radio listener and DX'er. There were two successful Conventions. A committee to preserve QSL's for their historic value was formed and is now actively collecting the QSL collections of former or deceased DX'ers. Many political issues were discussed, positions taken and Bob personally lobbied Congress with our position. Bob will be greatly missed. WTFDA thanks Bob Horvitz for the time, effort, and hard work he provided for ANARC. We wish Bob the best in his expanded roll at the Whole Earth Review.

ANARC has a new address:

Association of North American Radio Clubs
79 Kippes St.
Greenfield Park PQ J4V 381
CANADA

ANARC was represented at the Dayton Hamvention in March. ANARCON'90 is scheduled for September in Virginia Beach, VA. Anyone interested in a subscription to the ANARC Newsletter can write to ANARC Newsletter, PO Box 24, Cambridge WI 53523-0024 USA. A one year subscription is only \$8.00 US in the USA, \$8.50US in Canada and Mexico, and \$13.00US elsewhere. The Newsletter is the best way to keep up with the business of ANARC and the clubs.

SPRACHMAN'S CORNER

New York Media Briefs

First we had "K-Rock". Now we have "Z-Rock". WJIT 1480 New York City, a long time Spanish Language outlet, has changed call letters to WCRC and has picked up the syndicated "Z-Rock" format. For those who have not heard "Z-Rock", it is a 24 hour heavy metal rock music service. The several times I've tried to listen to the station, I found the DJ's to be vulgar and the music unlistenable. The station's motto is "If it's TOO loud, you're TOO old."

W53AA has finally returned with programming. The station is now an LPTV with programs aimed at the Oriental community. The service is called "Pan-Asian Television". It shows programs in Korean or Chinese.

W5HR 91.1 Fairfield CT wants to increase its listenership on Long Island by building a booster in Selden and two new educational stations on the East end.

There is talk that the owners of WRCN 103.9 Riverhead planning to purchase WFAS-FM 103.9 White Plains and having WRCN's programs simulcasted on WFAS-FM.

The translator on 103.1 in Ft Lee NJ is wasting spectrum space!!!

The only pirate still active is WFPR 91.9 Floral Park NY. Look for them on Thursdays between 5 and 7 pm. They are also on occasionally on the weekends. Their broadcasts are sporadic.

Well, it's time to close another ANARC Update/Sprachman's Corner. May 1990 be the best DX season,

73's

Steven P. Sprachman.



K-104 98.3

TVCC [UNIDENTIFIED DX]

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

SORT OF A SEMI-EDITORIAL

I had intended to run the second installment of 'The Art of the I.D.' in this column, but I'm not going to put forth the effort until I am assured that there is enough interest in the TV-CCI column to keep it going. I have received absolutely no contributions since the last column appeared in the April VUD. I had thought that perhaps members would be glad to see TV-CCI return, and would send in all those UNIDs that had not been published during the column's hiatus. No such luck. Either (a)nobody is seeing any DX, (b)nobody cares about IDing their DX, (c)nobody wants to take the time and effort to send in their UNIDs, or (d)some combination of the above. I'll allow two more months from the publication of this column for contributions; if I don't have at least enough to fill a page (without the accompanying article) then we'll bid ta-ta to TV-CCI.

I get the impression that members of the WTFDA don't put forth nearly as much effort into the hobby as they did 15 or 20 years ago. When I first joined the club, it seemed like we were all looking for rare DX, trying to log as many stations in an opening as possible, keeping statistics, going to great lengths to identify that mystery logging. The impression I got in my recent tenure as EASTERN TV-DX editor was that a lot of reporters wouldn't bother to try to ID a signal if the call letters weren't flashed at them in neon. Many were the times that a reporter logged a signal as "unID" that could have been solved with 30 seconds of effort, a little common sense, and maybe a phone call or a visit to the library. Perhaps we've become a bit lazy and are satisfied logging 100-mile "DX" and trading air checks. Has the TV- and FM-DX hobby really come to this? Your comments, please--they will be published in a future column (if there is one...).

Now, to the UNIDs...which consist solely of my own mysteries from the recent Gulf tropo. Several of these may well be LPTVs, and I'd like to ask members in the target area to help me track these down. Of course, if nobody wants to do that, I guess I won't be surprised...

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

Sun Apr 29 Tr ch 45 2340 EDT --- TBN programming, but not //live feed. WMCF is religious, but do they carry any TBN? PTA for all these loggings is AL,MS,LA, and TX unless otherwise noted.

ch 43 2340 EDT --- TBN programming, this one //W67BJ and others, so probably a 24-hour TBN LPTV. There is a K43BV in Crowley LA whose permittee is the Full Gospel Businessmen's Fellowship, a group that would be theologically simpatico with TBN. Can anyone confirm K43BV programming?

Mon Apr 30 Tr ch 42 0005 EDT --- Gene Scott, with no local breaks noted for over 2 hours. Suspected KBVO, but this was in long after KXAN had f/out, so possibly an LPTV.

ch 29 0030 EDT --- Caught tail-end of s/off with video of hot-air balloons with "Fox 29" logo in lower right, as male announcer invites viewers to tune in tomorrow. Abruptly off with no anthem or TP. Strongly suspect KVHP--can anyone confirm the balloons and the abrupt s/off?

ch 67 0214 EDT --- Station testing with grey scale TP. KHSH had been in earlier, but aren't HSC affiliates NSP? No other possibilities on 67 except LPTVs.

ch 28 0225 EDT --- "Success in Life."

ch 68 0319 EDT --- "Success in Life." Possibly WCAJ, but hope it's something better.

ch 22 0456 EDT --- LPTV with Video Jukebox Network (VJN) to N.W. PTA: AL,MS. Nothing in fiche seems likely.

Until next time (if there is a next time), it's been real.....JOHN.

=====

ONE MORE SHAMELESS AD (maybe the last...): Something else that DXers haven't had much interest in lately are DX DISTANCE PRINTOUTS. I haven't had a request for these in months, so maybe interest in knowing the exact distances to your DX loggings is also on the wane. I'm certain that the dearth of orders for the printouts doesn't mean that everyone already has a set--I know better. Seven bucks isn't a lot to pay, and doesn't give me much of a profit, but I'll soon discontinue offering these if there is no interest. Any takers? Last chance!

PHOTO NEWS

JUNE 1990

Bill Eckberg - Dixon Illinois is back again with more September 1989 tropo fotos. Equipment: see May 1990 PHOTO-NEWS column page 16.

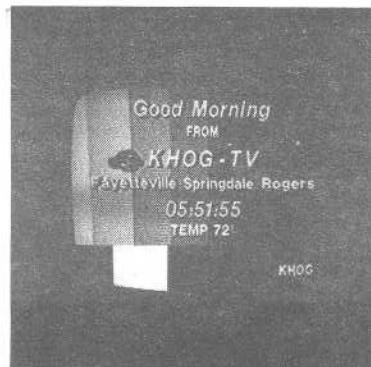
Mailing Address:

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14001-9529

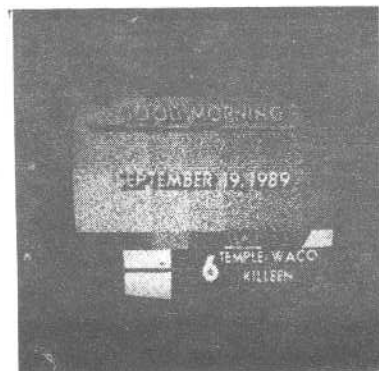
Photos submitted to PHOTO-NEWS become the property of this column and will not be returned.



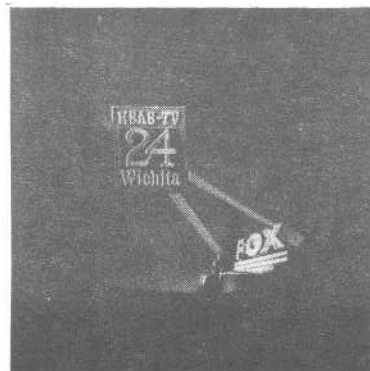
KMSS-33
Shreveport Louisiana
681 mile tropo
seen September 4 1989
at 0545 CDTIME



KHOG-29
Fayetteville Arkansas
463 mile tropo
seen September 4 1989
at 0552 CDTIME
"new call"



KCEN-6
Temple Texas
858 mile tropo
seen September 19 1989
at 0445 CDTIME



KSAS-24
Wichita Kansas
498 mile tropo
seen September 19 1989
at 0300 CDTIME

PHOTO NEWS

JUNE 1990

Bill's foto file continues...

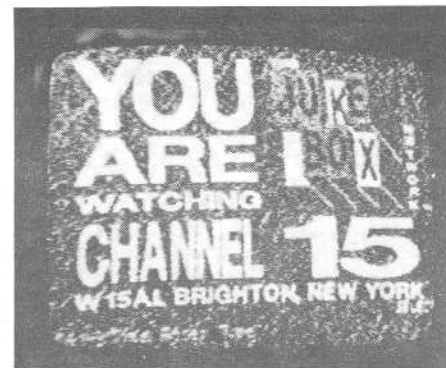
Photos submitted to PHOTO-NEWS become the property of this column and will not be returned.
EDITED BY
David J. Nieman

Dave Nieman - Akron New York is next; for equipment see April 1990 PHOTO-NEWS column page 24.



KETH-14
Houston Texas
893 mile tropo
seen Sept. 19 1989
at 0500 CDTIME

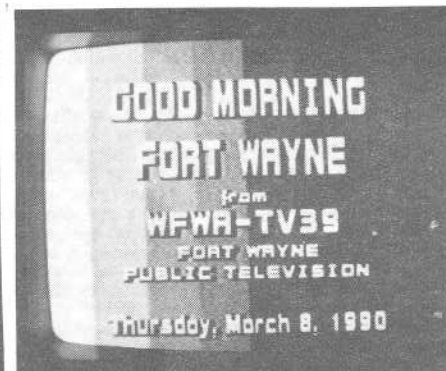
More from Bill next month



W15AL
Brighton New York
49 mile tropo
seen January 20 1990
at 1000 ESTIME



WADL-38
Mt. Clemens Michigan
228 mile tropo
seen March 8 1990
at 0001 ESTIME



WFWA-39
Fort Wayne Indiana
365 mile tropo
seen March 8 1990
at 0100 ESTIME

Till next time.

DAVE

WESTERN TV-DX

Fred McCormack
Box 9077
Prairiewood Station
Fargo, ND 58106-9077

Deadline: 07-05-90
Cut-off: 04-01-90

June 1990

No reports of E skip yet, but Jeff Kruszka did catch some nice 500 mile tropo on April 29th. And with INDOOR antennas!

New ___ New Mode _ Tent. - t Unidentified - unid S/On - + S/off - =
ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &

TA Tamaulipas

Mike Cherry, Box 631, Ganges BC V0S-1E0 (604) 537-5201

PST

Equipment:

Hitachi 5" black & white AC/DC (vintage 1980), Kenwood RZ-1 receiver, Sony Beta Hi-Fi MTS VCR, channel 6 trap (xtal). Realistic PRO-2021 scanner with 6 meter (50 MHz) vertical dipole. VHF - Lindsay GA-10FM 10 element wide-spaced FM yagi on Alliance U-110 rotator at 57' asl/agl. UHF - Radio Shack 4-bay with 15-1108 mast-mount adjustable gain VHF/UHF preamp at 45'.

March 1990

10 tr 0614	KAYU 28 WA	15 tr 0546	KATU 2 OR	1 tr 2124	CBUT34 33 BC
0623	KREM 2 WA	28 ms 2334	unid ch 3 (6sec)		(rare)
0630	KXLY 4 WA	1 tr 2112	CBUT4 13 BC rare	2131	CHAN18 21 BC
	(Over KOMO-4)		(Under KCPQ-13)		

March was a true yawner for DX. No F2 seen. Lots of auroral noise around the 24th. Affected FM briefly, but not TV. Very little tropo, but the last week of March there was exceptional local enhancement on low-band, FM, hi-band, and the lower U's. I've spent more time this last month searching out the ultimate mountain top within the region for bandscans/tropo DX.

MISTAKES MISTAKES....At Fred McCormack's urging, I went back through my videotapes and logs, and it is with much embarrassment I have found a few errors. I'm GUILTY AS CHARGED of sloppy loggings/reporting and I apologize for the following foul-ups and hope this hasn't caused any problems for any DX'ers. (Sorry you took some flak, Fred.)

MISTAKE # 1 - 01/12/90 logging of 49.735v/56.255a shows in my logs as January 12th, BUT its sequence on the videotape indicates it to be around December 12-14, 1989. WRTH lists no transmissions from China at this hour, but I believe this may be a feeder transmitter as I have twice noticed this gone after 1400 PST. An Asian TV DX'er is checking on this one.

MISTAKE # 2 - F2 loggings for the 9th and 14th of February appear to be from about a week earlier according to the sequence on the videotape, as they were recorded before my tropo logging from KLEW-3.

I promise to clean up my act in the future regarding logging dates.

A MYSTERY - Help! My November 14th tentative of channel 3 Guatemala City was NOT TGV. An east coast DX'er, via Fred informed me that Guatemalan stations have not used calls for years. On video review: 1125 - 1129 weird CCI on channels 2 and 3, not "venetian blinds", no nasty auroral noise/flutter. Six meters active to western Africa and South America. Local CBUT channel 2+ almost unintelligible with antenna pointed ese 120°. On channel 3, a male voice "...stida del Guatemala tonda....(sorry, but that's how the pronunciation SOUNDS) then there is a rapid fade of audio, a quick fade-in of video....a female standing....fade out, severe noise and buzzing, and a female voice saying "....T G....", fade-out with another brief fade-in of video and gone. Beacons at 50.03 audible (XE3 Mexico perhaps?). I'm willing to accept any explanation. Double E hop? Was I fooled by some aurora? None of my listings for channel 3 show anything with calls containing "TG" other than TGV. The frequency was channel 3-. Help!

Finally, Dave Sinclair mentioned the other day that he thinks there is a channel 53 (Fox affiliate) in Yakima, Washington, either now on the air or about to go on. I'll keep

Western TV-DX

June 1990

Mike Cherry (continued) looking for this. Also, regarding F2 - most experts think the peak has either passed, is just passing or is about to pass. This won't be known for sure for a few months. I hope April provides more DX here than March did. 73's, Mike

(Thanks for the clarifications. Now hopefully, we can all get back to what we enjoy the most - catching new DX! Regarding channel 53 in Yakima, I believe you will find that to be K53CY, an LPTV owned by KAYU-TV and carrying their programs. fm)

Jeff Kruszka, 5855 Walnut Creek Rd, Apt. A-105, River Ridge LA 70123

CST/CDT

Equipment:

Sylvania 12" black and white, quad loops cut for channels 2-6, Radio Shack U-75 corner yagi.

January 1990

31 tr 2227	WTVA 9 MS 273	17 tr 0700	WMAA 29 MS 157	29 tr 2200	WDHN 18 AL 303
	(Over WAFB-9)	29 tr 0151	unid ch 49 with Chinese - What??	2220	unid channel 20 (w/Arsenio Hall)
			unid ch 35,50,52	2237	unid channel 40 (Sportsmachine - WTWC-40 ??)

March 1990

21 tr 2212	Houston UHF's	(Home Shopping Club)			
2217	KABB 29 TX 486	0210	unid ch 34 relig		
2222	KXAN 36 TX 454	0232	=WFST 28 FL 499	2243	unid ch 43 HSC
2227	KVDA 60 TX 490	0248	KTBC 7 TX 454	2300	WNFI 47 FL 514
	(In Spanish)	0300	KLTV 7 TX 346	2318	unid ch 28 Span. (KORO-28 ??)
			(KTBC-7 off air)		

April 1990

16 tr 2318	=WMAW 14 MS 165	0302	XERV 9 TA 559		
17 tr 0609	KMSS 33 LA 290	0342	unid channel 48	2326	unid ch 47 relig (See comments)
			KTRK 13 TX 318		

The channel 47 religious at 2326 on the 29th had a Dallas area code (214) - channel in Greenville started up? (Not to my knowledge. fm)

A spectacular opening on the nights of April 28th and 29th. I seemed to be in the middle of the DX path. XERV-9 Reynosa was a shock - definitely my longest tropo to date. And again, that's without an outdoor antenna! It was interesting that on the 29th I had to wait for KTBC-7 Austin (454 miles) to sign off before I could get KLTV-7 Tyler, 108 miles closer!

(Nice going with the tropo. I would encourage you and all others to send identifiable unid information to John Combs for the new TV CCI column. fm)

Fred McCormack, 135 Prairiewood Drive, Fargo ND 58103

CDT

Equipment:

VHF: Broadmoor 9" black & white, Winegard CS-4053; UHF: Rembrandt VA133 tuner, Winegard CH-9095, Blonder-Tongue CMA-Uc preamplifier; Alliance rotor.

May 1990

8 ms 0457 WAVE 3(IN) 810

It would have been another DX free reporting period had I not woke early on the 8th. Switching the TV on, I noted multiple signals on channel 5. Flipping through the channels, I noted a WAVE ID slide on channel 3. I thought I had stumbled onto an early E skip opening, but no such luck. After a few seconds (maybe as many as ten!) I realized that it was some major meteor bursts. On my small antenna, meteor bursts are typically not ID'ed. This was only my second ID, the last being of WJBK-2 in 1982.

BIG TOWERS	KTHI-11	ND	2063	feet above ground
	KXJB- 4	ND	2060	feet above ground
All known U.S. towers with antennas 2000 feet or more above ground.	KATV- 7	AR	2000	feet above ground
	KDIN-11	IA	2000	feet above ground
	KTIV- 4 / KCAU- 9	IA	2000	feet above ground
	WABG- 6	MS	2000	feet above ground
	KYTV- 3	MO	2000	feet above ground
	WTVD-11	NC	2000	feet above ground
	WNCT- 9 / WITN- 7	NC	2000	feet above ground
	WRAL- 5	NC	2000	feet above ground
	WECT- 6	NC	2000	feet above ground
	WBTW-13	SC	2000	feet above ground

EASTERN TV-DX

Bill Nienajadly
98 Highland Ave
Clifton NJ 07011

June 1990 Cut-off 4/1/90 Deadline 7/1/90

April 27-28 bought 1201 mile WFTX-FL to Roy Barstow and his 9th Florida UHF!!!
On the 29th-30th John Comb's logged 1090 miles with KDLO-27-TX and outstanding tropo to the Gulf region. "Best tropo I've seen in about 15 year's...." I wonder if these two opening's progressed, would it be possible to have TX to Mass.trop opening's?
Im looking to hear about another Thanksgiving 86 again! Note deadline is the 1st now.

Kieth Pugh 227 Martin St New Hope Alabama 35760
Equipment;Realistic Pro 2004, Ground Plane antenna (27Mhz)

November 1989

11 F2 0907 48.260 Video Strong
0911 48.250
0928 48.245
0929 47.680 Video?

12 F2 0930 46.680 Audio,Spanish,Probably not TV,Sounded like a live broadcast remote with what sounded like large truck's passing by and horn's blowing mention Buenos Aries. 0956 Fade out's

19 F2 0900 48.240,48.260,47.750-Fade 0935
20 F2 0930 48.240, .250 .260 -Fade 0935

April 1990

6 F2 1520 45.700 Audio,Spanish,Similar to Nov 12,89 log,ment Columbia
73 & Good DX'ing Kieth

(Ed note; Even though this was dated, this might be useful to other's so I put it in-BN)

Debra Lee Oliver 7935 Dartmoor Drive Pensacola Florida 32514

March 1990
6 Tr 2015 WBNS 50 FL 340
2045 WOHN 18 AL 130
WDGH 28 FL 110
2100 WJHG 7 FL 110
2130 WMBB 13 FL 110
10 Tr 2100 WFSU 11 FL 200
WFGX 35 FL 40
WTWC 40 FL 200
2125 WYES 12 LA 180
2140 WTXL 27 FL 200
2200 WWSB 40 FL 380
2215 WAFB 9 LA 240

April 1990
5 Tr 2200 WCTV 6 GA 180
WTLV 12 FL 340
WJKS 17 FL 340
Breif opening to Jacksonville gone by 2225. Real surprise!
Farthest east received,Strong.
2230 WOTC 29 AL
16 Tr 2000 WBBH 20 FL 350+
UNID 48 FL
Ft Walton Beach area-tourist ad's.New low powered station?
2200 WEVU 26 FL 350
Farthest south received,Naples
WWSB 40 FL 380
23 Tr 2230 WDSU 6 LA 180

Equip;G.E. color TV,Model 8-1304,3ft rabbit ear's,
bowtie UHF. Total of 61 station's received to date.

Comment's; Was thrilled with the opening's to Jacksonville and Naples-Ft.Myers area. Both came in crystal clear for short periods of time. Can anyone identify WFXL on 31 or the Ft. Walton Beach FL,tourist station? (I dunno-BN) Would love to correspond with other TV DX'ERS,especially if there are any other female's out there! Am I the only female that enjoy's this hobby? Heaven forbid!! 73's Debra Oliver (Ed note; I have heard of other female's who TV DX but I believe you have the honor of possibly the first female to report to ETVDX!!!-BN)

Greg Coniglio 5100 Glenwood Drive Williamsville NY 14221

April 1990

From Myrtle Beach
10 Tr 0900 WYED-17,WLFL-22
WPTF-28-NC
2100 WJKS-17,WNFT-47-300

Back home
22 Tr 2035 W38AW 38 NY 57
Rochester NY-color bar's
also in-Toledo-Cleveland-
Ottawa,Syracuse,
23 Tr PM Cleveland,Toledo-U's
26 Es 1900 CFSS 3 SK 1400

Not as much as DX as last year in Myrtle Beach.The weather was cooler (mid 60's) and a large building inhibited DX somewhat to the South.WTAT-24 is back at 5 MW (5,000,000 big ones! -BN) and at 95 miles away it still blocked out local WHMC-23 occasionally and producing images.WUNJ-39 seems to have raised power too. Back home tropo is picking up earlier than normal,along with warm temps (70's & 80's) E-skip any day now! 73's Greg

Christopher S. Dunne P.O. box 533 21500 Johnson St Pembroke Pines FL 33029

April 1990

30 Tr 2033 WJCL 22 GA 399
2036 W50-- FL 102? May 1990
//WFLX-29 Vero Beach
2054 WAWS 30 FL 293

1 Tr 0005 W16--//WESH
0805 W?? 21 AL 531
Mobile AL
0808 WPMI 15 AL 531
0828 WCBJ 20 FL 255

Well folks,this beats the 2 stations of last month & greater distances eh? Oh if only I had a parabolic...Strong FM/TV opening's to GA/SC coast + on morning of 5/1,to FL/AL Gulf coast.Haven't reported FM as yet but I need to! Howzat Bill?(Hurry,Hi!-BN)

Eastern TV DX June 1990

Roy Barstow P.O. Box 488-T Teaticket Mass 02536
Equip; Zenith Color TV,Channel Master MATV Super Vector Model 1273 Hi Band 29'
BT Vaultier III Plus Amp. Channel Master Super Bandsaw UHF 33',Winegard
PA-4975 Amp, Radio Shack EL-Cheapo Coax,Rotator-Armstrong method.

April 1990

16 Tr 2030 WMDT 47 MD 345	25 Tr 0300 WLYH 15 PA 319	27 Tr 2200 WUNJ 39 NC 660
WCPB 28 MD 345	WTGI 61 NJ 278	WUNM 19 NC 577
WBOC 16 DE 341	0320 WDCA 20 DC 388	2300 WCVW 57 VA 467
WTVZ 33 VA 457	0410 WFTY 50 DC t	28 Tr 0000 WFTX 36 FL 1201
WYAH 27 VA 455	0508 WNEP 16 PA 274	0028 WTAZ 24 SC 779
WHRO 15 VA 457	0540 WPMT 43 PA 332	0130 WPTF 28 NC 591
2120 WJCB 49 VA 457	27 Tr 1845 WJCB 49 VA 457	WLFL 22 NC 600
WUNM 19 NC 577	WMDT 47 MD 345	0200 WDNT 27 ??
WGMG 40 NJ 278	WTVZ 33 VA 457	sign-off
25 Tr 0050 WBF 45 MD 354	WYAH 27 VA 455	
WHSW 24 MD 361	WHRO 15 VA 457	(Ed note; Nice going with
WCPB 28 MD 345	WCPB 28 MD 345	WFTX FL at 1201 mile's
0100 WMPT 22 MD 363	2031 W41AC VA 380	and your NINETH FL UHF!!!
0200 W42AT DC t	W60AL VA 380	It sorta make's me feel
Univision Blocto	2147 WTVX 34 FL 1141	that I gotta find a much
Game (?-BN)	WRLH 35 VA 471	better spot than NJ HI!-BN)

Very dry weather DX wise,Thing's on the up swing starting in April. April 25 on 42 had a talk show (SS)Univision,not sure if W42AJ DC or what. East PA in good that night. April 27-28,Hi-pressure off coast bringing in FL UHF. When hi-pressure,inland DC area come's in,(in most cases). WTMV 32 FL Flying ID with Cardinal's baseball-They were down 10-3 to the Giant's. Lot's of detailed information on 36 WFTX FL. Have this on video tape.Typical long fading in and out for about 2 hr's.#9 FL UHF
Jeff Wolf 1131 University Blvd, W, Apt 701 Silver Spring MD 20902

April 1990

17 Tr 0703 WRDG 16 NC 251	28 Tr 0642 WJKA 26 NC t	28 Tr 0750 WNSC 30 SC 369
0710 WRLL 35 SC t	weak	0751 WRLL 35 SC 409
0715 WNSC 30 SC 369	C/B 3/4	0804 UNID 23 zero
0724 WPTF 28 NC 251	10 khz WAGT	WHMC
0725 WYED 17 NC 248	WOLO 25 SC t	0814 WTVW 11 NC 246
WJPM 33 SC 358	WPTF 28 NC 251	0815 SC 13,43 t
0742 WKFT 40 NC 265	UNID 28 + or -	0825 WGGT 48 NC 265
WBTW 13 SC t	WRDG 16 NC 251	through local
0800 WHMC 23 SC 373	0700 WKFT 40 NC 265	WUAB 43 OH t
WPDE 15 SC 349	W40AH VA t	0827 WCCB 18 NC 332
22 Tr 2312 WNUJ 47 NY t	0719 W34AX NC 202	0835 UNID 17 + cci
24 Tr 0738 NYC 47-t,31	Henderson fair	to WYED
Scaranton 16,28	see note	WPDE 15 SC 349
25 Tr 0659 WYED 17 NC 248	0720 WCNC 36 NC t	WACH 57 SC t
0710 WRDG 16 NC 251	0724 WJPM 33 SC 358	0843 WTVI 42 NC t
0739 WKFT 40 NC 265	0728 UNID 17cci z	through local
0743 WPFT 28 NC 251	WJKS ?	0848 WRDW 12(SC) t
0751 UNID 17z cci	0735 WHMC 23 SC 373	VA 12 almost local
26 Tr 0205 W40AH VA 167	WUNJ 39 NC 344	0900 WIS 10 SC 390
28 Tr 0415 WYED-17,WRDG-16	0739 WJWJ 16 SC 488	through WAVY
0635 WTAT 24 SC t	0744 WJZY 46 NC t	29 Ls 1807 WKFT 40 NC
WYED 17 NC 248	NC-45,47 t	thru
0642 WAGT 26(SC)466	0750 UNID 30+cci	1823 many burst's
Fair to good	WAWS?	

Note; "Channel 34 Henderson" in center,"Thank you"..lower right. This was alternating with a vertical bar TP. Call's per 1990 Television and Cable Factbook

A new band to DX TV on? Well sort of.Read what Kieth Pugh write's about it.....
"Have you heard about Ham TV (or ATV)? I've been listening to the local Huntsville Ham's on 2 meter's conducting test's test's of ATV.This may (or may not) ? be something new for TV DX-er's to check out.The frequency they use is 439.250 Mhz,which is CABLE Ch 60. All you have to do is connect your UHF antenna into the VHF (or cable)terminal,But you must have a cable ready set or a cable converter as this isn't standard UHF.WTFDA has covered in the past about Ham's using ch 14 on regular UHF".... "There (the HAM's-BN) planning to put a high power repeater on CABLE ch 58 soon.The ATV set up for this band is CABLE 57 thru 60...." Kieth thanx for that interesting info,If anyone want's to mention DX they received via Ham TV,go ahead!!! -BN

John F. Combs (N4SFS), 1308 Willow Branch #24, Jacksonville FL 32205 (904) 389-2451
(New loggings underlined; new propagations broken-underlined; distances shown for new loggings and selected relogs over 300 miles...)

FEBRUARY 1990

17 Tr 1945-21001 West Palm Beach (WPB) U's, W16AJ Melbourne (169) rare w/WJKS-17 on, traces of Miami U's (313), W50AW Vero Beach (206) [11 Tr 21001 WPB U's [12 Tr 0305] W19AQ West Palm Beach (267) [0630-0700] Wilmington U's (334), WGSF-43 SC, Columbia U's, and W31AT Gainesville (63) a VJN affiliate and my 350th logging! [2030 Tr 2130] WPB U's + Miami 33, 69 [22 Tr 2105] Columbia U's, WRJA-27 SC [27 Tr 2220-0100] Columbia U's, WRJA-27 SC, WHMC-23 SC, WPDE-15 SC (322), WJPM-33 SC, Wilmington U's, WUNK-25 NC (432), tent. WBTW-13 SC [28 Tr 0720] Wilmington U's

MARCH 1990

15 Tr 0650] W65BG Tallahassee (154), W23AC Albany GA (170), Atlanta 36, 69 [6 Tr 1330-1440] Wilmington U's [7 Tr 0035] Columbia U's [11 Tr 2310] WPB U's [12 Tr 0600-0630] SC 19, 25, 27, 33, 35, 43, 57; W65BG FL [2035-2230] Wilmington U's, SC 19, 23, 25, 27, 43; tent. WFXI-8 NC [13 Tr 2130] SC 10, 19, 25, 27, 35; Wilmington U's [14 Tr 0345-0400] WECT-6 NC (350), WSPA-7 SC (337), WNCT-9 NC (429), WBTW-13 SC (312), WKFT-40 NC (392) [23 Tr 0758-0830] WUNP-36 NC (469) in all by itself, weak but steady...no sign of Wilmington, Raleigh, SC, etc.--a classic example of ducting! [29 GW 1440] WBSG-21 Brunswick GA (44) new semi-local testing w/ID 3/4cb...pgm start April 2nd

APRIL 1990

11 Tr 2025-0145] Columbia U's, WHMC-23 SC, WRJA-27 SC, WPB U's, WJKA-26 NC, WITV-7 SC after local off [0705] Columbus 9, 38, 54 [2220] WLTX-19 SC [5 Tr 0735-0800] Columbia U's, panama City U's, W65BG, SC 27, 33; WSRE-23 FL (329) [2330-0125] NOW THE GOOD STUFF! Mobile 5, 10, 15, 21, 42 (348-368), Pensacola 3, 23, 33, 44 (329-354), WVLA-33 LA (569), WLBP-27 LA (565), KHTV-39 TX (825), WNOL-38 LA (491), WDSU-6 LA (492) (previously by Es), WHTL-22 MS (452), WDAM-7 MS (455) PSA & ID during Letterman, WLOX-13 MS (439), WXXV-25 MS (437), WTZH-24 MS (434), Columbus 3, 9, 38, 54 excellent (note WTVW-9 w/Sally Jessy at 0030--unusual slot!), WAKA-8 AL (325), and WJKA-26 NC (how'd that get in there?) [6 Tr 0600-0630] Mobile, Atlanta, Augusta (including rare WJBF-6), Columbus, other SC/GA, plus W65BI Augusta (222) (TBN); there were signs of better stuff behind all this, but had to rush to log (it's always something, hi...) [7 Tr 0225] WPTV-5, WFLX-29, WFTX-36, WVEU-26 FL [15 Tr 2330] WJKA-26 NC [16 Tr 0630+] SC 19, 23, 25, 27, 33, 35, 57; Atlanta 36, 69 [2045-2230] WPB U's, Wilmington U's; SC 23, 27, 43; WBTW-13 SC, WPDE-15 SC, WKFT-40 NC (392) still acting as a satellite of WRAL-5 [17 Tr 0550-0630] WJKA-26NC, WGSF-43 SC, WGNT-27 VA (540), WKFT-40 NC, WUNK-25 NC (432), WUNP-36 NC (469) [1700-2300] Wilmington U's; SC 19, 23, 43; WFXI-8 NC (436) [21-25] Pretty frequent reception of SC and coastal NC U's throughout period [26 Tr 0525-1040+] A VERY NICE MORNING! Excellent signals...at one point everything from Cape Coral FL to Portsmouth VA was solid! WGNT-27 VA (540) strong w/ID 3/4 cb; WPTF-28 NC (413); Columbia, Wilmington, Columbus, WPB U's all excellent; most SC U's, including lesser-seen like WNTV-29 WGSF-16; Atlanta 11, 36, 69 (WVEU-69 w/Japanese pgm @ 0730); WITN-7 NC (429), WFXI-8 NC (436), NCPV net on 19, 25, 36, 39; WKFT-40 NC, WFCT-62 NC (350) (first logging of 62 in a long time); Miami U's weakly; WHNS-21 destroying WBSG-21; WNGM-34 GA, and (finally) long-sought WNEG-32 Toccoa GA (312) with "Rawhide"--tnx once again to Sittel for ID assist! Wilmington U's in all day (2155-2315+) Many SC U's, NCPV at 19, 39; WFXI-8, WNGM-34, W20AL Wilmington (345) w/TBN easily covering WCJB/WCES at times; WPB and Miami U's very good; WPLG-10 FL (312) over local W10AX; W19AX Kissimmee FL (135), W19AQ West Palm Beach FL (267), WPTV-5 FL [27 Tr 0835+] Wilmington (in all day again), Columbia, WPB, Miami; SC 23, 27, 38 [2240+] Wilmington, Florence, and Columbia U's; other SC U's including WNTV-29 very good next to local; WCNC-36 NC (346), WCCB-18 NC (346) [28 Tr 0800+] still traces of last night's stuff, but approaching front rapidly closing the door on the Atlantic coastal tropo! But the best was yet to come...

APRIL 29 and 30--SUPER GULF TROPO!

In looking at the weather map, I noticed a huge dome of high pressure building up behind that stormy cold front--and it was centered smack over the Gulf. I knew the Gulf was about to open...and boy, did it ever! What I experienced was the best tropo I've seen in about 15 years...Just maybe the best I've ever seen. [29 Tr 2120-0505] All Mobile, Pensacola, Biloxi-Gulfport-Hattiesburg, Atlanta V's and U's, New Orleans LA: WDSU-6, WVUE-8, WYES-12, WNOX-26, WCCL-49 (492-497), Houston TX: KPRC-2 (previously by Es), KHOU-11, KTRK-13, KETH-14, KTXH-20, KRIV-26, KHTV-39, KXLN-45 (Rosenburg), KHSH-67 (Alvin) (824-825), Other Louisiana: WBRZ-2 (564), KPCC-7 (671), KARD-14 (629), KADN-15 (625), KLAX-31 (647) (just visible behind WPX's a/n TP) WVLA-33 (569), Other Texas: KMHB-60 (1019), KVEO-23 (1020), KXAN-36 (956), KITU-34 (726), KWEX-41 (1004), KORO-28 (960), KLDO-27 (1090) (my all-time UHF record! Program note: they run some SS stuff from Telemundo during off-NBC hours), KTBC-7 (966), KRRT-35 (1026), KETK-56 (811), San Antonio 5, 12, 29 (991-992), KLTJ-22 Galveston w/SS religious--this is apparently the third TX stn to bear these calls! One lonely logging from Mexico, but a nice one: XERV-9 Reynosa, Tamalihuap (1046) (most distant hi-band seen yet in Jax) running a/n with that "eco" stuff. Other loggings: WDIQ-2 AL (290), WAPT-16 (524), WDBB-17 AL (399), WWSB-27 MS (494) w/an absolutely gorgeous signal, WBRG-6 AL (370), WTZH-24 MS (434), W17AB Tallahassee FL (now a 24-hour TBN, enabling me to finally log it after local off--my 30th LPTV/xltr!). Strangest logging: WOTC-29 Selma AL (at least those are the calls on the CP) which is apparently a satellite of WBRG-6 in Birmingham. A call to a less-than-sharp WBRG person yielded the confirmation that "yes, they carry us on 29 down there," but as to whether WBRG actually owns them, or whether this is a full-time satellite, who knows?? Only WBRG-6 IDs seen on it. [0945-1130] A little DXing between inventory jobs: Dothan, Columbus, Montgomery, Atlanta, Mobile, Pensacola, Biloxi, Selma, New Orleans, Baton Rouge, some Houston, APTNs all pouring in. So much CCI that IDs were difficult-to-impossible; only newie was WMAA-29 MS (528). Some Gulf stuff continued into May, but not nearly as full-blown or intense--details next time!

Well, I finally got a tropo opening of sufficient proportions to be able to compare notes unashamedly with Carlon Howington, hi hi! For hours all VHF and some UHF channels looked like E-skip, so numerous and intense were the signals. I had to patiently wait for a lot of stns to s/off to clear up some channels enough to ID anything! Lots of nice signals were taped for the "archives." (Yes, Dave, I promise to shoot some stills off the tape for your column!) Between jobs and DXing, I was up for almost 40 hours straight--but it was very much worth it. My totals take a quantum leap to 377 total stations (194 UHF).

NORTHERN FM-DX

GREG CONIGLIO
5100 GLENWOOD DRIVE
WILLIAMSVILLE, NEWYORK 14221

For DXers In: Canada, ME, VT, NH, MA, CT, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR
JUNE 1990 DEADLINE: THE 1ST

A very short column this time around. A warm welcome goes out to two new reporters, whose reports can be found on the second page. A little Es to go along with the warm weather was noted the last week of April but nothing major. Keep tuned, the Es season is here!...

DAVID BRUMFIELD - 1618 CHESTER BLVD. - RICHMOND, INDIANA

Equipment: Akai AT V04 - Winegard Antenna

OCTOBER 1989

51C

1054 WAXZ 97.7 OH Georgetown, k\$ over WOXY, rare
1206 WBSA 96.9 AL Decatur, Beautiful 97
1311 WMOB 92.1 KY Morhead, f, over WBST
1357 WITZ 104.7 IN Jasper, ro, o/WTUE

19MS

0252 WHTV 94.1 RI Providence, 5secburst, WNNK off the air due to local snowstorm!
Celeste Pizazzo and 94-HJY. The home of workforce.

21GW

2000 WXXK 98.9 OH Upper Arlington-Columbus, rock favorites, The New Mix 98.9. New to air.

22MS

0135 WJFK 106.7 VA Manassas, 22secondburst

26GW

0001 WKSJ 99.7 OH Paulding, new to air

27MS

0107 WHTZ 103.7 IN Royal Center, new to air

27MS

0215 WIZN 106.7 VT Vergennes, 3secondburst,
"ZK, The Wizard of Rock, and the brand new..."

WILLIAMR. HEPBURN - 1211-1547 MISSISSAUGA VLY, MISSISSAUGA, ONTARIO L5A 3X8

Equipment: JVC R-X330V receiver, 12th floor balcony dipoles.

-time EST, distance in miles / signal in db (0 db = 1 uv / 75 ohms)

-relogs under 311 miles (500 km) not logged

JANUARY 25, 1990 TROPO-SCATTER

1700 WCIH 90.3 NY Elmira, 170/0
re WCIC 103.1 Bath

JANUARY 26, 1990 TROPO-SCATTER

1921 WCID 89.1 NY Friendship, also re WCIC 122/0

FEBRUARY 16TR-S

1700 WHBC 94.1 OH Canton, CBL off the air 210/0

MARCH 6TR-S

(locals off, while modifying receiver!)

0137 (WRKT) 100.9 PA North East ex WHP now \$ 98/0

0139 WTOE 98.1 OH Canton-Akron 200/0

0139 CELY 98.3 ON Kingston 160/0

0145 WKKC 99.9 PA Erie 114/0

0240 (WCIZ) 97.5 NY Watertown 180/0

ex: WNCQ

DECEMBER 1989

5Es

1532 WMCU 89.7 FL Miami, g
1600 WVMU 90.5 FL Tampa, g
1601 WJIS 88.1 FL Bradenton, g
1605 WZZR 92.7 FL Stuart, r
1608 WCVU 94.5 FL Naples, k, "North Naples"
1611 WPCV 197.5 FL Winter Haven, Lakeland ads
(caller from Dover, Ohio receiving them over WONE!)

1637 WKAJ 92.3 FL Orlando, K-92-FM!

1658 WCTO 92.1 FL Venice

1658 WNGS 92.1 FL West Palm Beach, Lite 92.1 FM

many unidentified Florida stations

JANUARY 1, 1990 MS

0011 WCIQ 92.1 FL Venice, prev via E-skip

JANUARY 7MS

0408 WSEL 106.5 NC New Bern, 6secburst

"WSFL, Coastal Carolinas official Beach

Musical Station"

FEBRUARY 5, 1990 TROPO

1000 WZYP 104.3 AL Athens-Huntsville

1000 WBSA 96.9 Decatur-Huntsville

MARCH 4, 1990 TROPO

0118 WJCR 90.1 KY Millerstown, g, o/WFYI

MARCH 7TR-S

(modifications complete!)

2134 (WJMO) 92.3 OH Cleveland Heights 180/0

2249 WCIJ 88.5 NY Spencer, re WCIC also 190/0

MARCH 8TR-S

0102 WAAL 99.1 NY Binghamton 205/0

MARCH 12 TROPO

1605 (WPIG) 95.7 NY Olean, ex WEBF 112/0

1706 WKSJ 102.7 PA Williamsport 215/0

1741 WJOZ 93.5 NY Wellsville 135/0

MARCH 13 TROPO

1043 WKXZ 93.9 NY Norwich-Oneonta 220/0

1130 WCSX 94.7 MI Birmingham-Detroit 195/0

MARCH 16 TROPO

2316 WGOJ 105.5 OH Conneaut 125/15

TUNER MODIFICATION UPDATE: Filter mod. completed March 6, but I took it a step further. In the process I discovered space for parts for an extra IF section and an extra RF front end buffer (between the RF amp and mixer). (I assume these were for the top of the line receiver). I put in the extra parts and retuned the RF circuits. The extra IF improved the sensitivity and selectivity. The extra RF-buffer GREATLY reduced receiver overload - i.e. - the receiver now has much more USEABLE sensitivity. In addition, I added an extra filter in series with the very first IF filter. This improved selectivity even more with only a SLIGHT decrease in S+N level (but no change in S/N ratio). I also changed the tuning increment to 0.05 Mhz, although most adj. tune just fine on proper freqs. Ex: WREO 97.10 OH, 135 miles comes in full time with stereo and also with 67 SCA! beside local CJEZ. WJYE 96.1 at 68 mi. is clear as a bell beside local 96.3 only a quarter of a mile away! Hope others continue to have good luck 73s (William, thank you for reporting this!-gc)

WELCOME NEW REPORTERS !!!

DAVID DUNN - 593 ACTON ROAD #D - COLUMBUS, OHIO 43214

I can say that I have never DX-ed FM very successfully. I subscribed to the WTFDA mainly because I DX TV occasionally. Although, since I moved about 1 1/2 years ago, my location, and the locations of my antennae, don't seem to be conducive to TV DX (mainly UHF). I am also interested in shortwave, AM, and all aspects of broadcast (just as a hobby or as an amateur), so I don't spend all of my time with TV or FM.... I thought I would write, with some input. The other night, March 16, 1990 (Friday) I was listening to semi-local WSWZ 103.5 in Lancaster, Ohio when I was aware of some major interference. The interference turned out to be WGRN in Hamilton, Ohio on the same frequency almost drowning out WSWZ. This was about 8-10p.m. At this time, we in Ohio, I suspect, were getting the first bit of the mahor storm which was travelling east from Kansas, the same storm which caused major tornadoes out there. What kind of propagation was this? (Tropo-gc). Anyway, I tuned around the dial and found other distant stations (mainly in Ohio) coming in loud and clear. As I said, I have never DXed FM before, so this all happen so fast that I wasn't aware that there was an opening, and did not write much down. I did, however, get the address for WDOK in Cleveland, which was given on the air for their request line, and I wrote to them for QSL. In the meantime, I also sent away for WTFDA's advertised address book!.... I have a DX-440 Realistic Receiver, with a Grove indoor antenna (about 5 feet wire, with cable to the radio, mostly used for shortwave). I cannot remember whether I used that, or just the built in telescopic, but I believe it was the telescopic because I remember moving it around to increase pickup and null out the distant stations, which were at times causing interference. As I said, I did not write much down, except basically the stations which I heard and their frequency. These stations were:

- 91.3 WYSO OH Yellow Springs, normally difficult to receive here, but came in better that night.
- 101.9 WKRQ OH Cincinnati with an S9+ signal
- 102.1 WDOK OH Cleveland, with female DJ and request line
- 102.3 WSWO OH Wilmington, with a clear S9 signal
- 103.5 WGRN OH Hamilton, totally drowning out semi-local WSWZ, with the same kind of format of 50s and 60s type music.

These stations were picked up without any real DX equipment, and when I tried to pick them up the next night I could not receive them at all. Thank you. I hope this can be of interest of you. (Thank you for reporting to the column David!!-gc)

DOUG SMITH - 3015 OAKRIDGE AVENUE - MADISON, WISCONSIN 53704-5848

Equipment: Technics ST-G50, mismatched dipole at 4 feet.

APRIL 7, 1990 Tr-Scatter

- 1630 WHWC 88.3 WI Menomonee, talk // WHA970 181
- 1630 unIDs 90.5 & 90.9 // WNIU 89.5 KGAC?
- 1630 unID 97.1 urban contemp. not WNIB or WCOW
- 1630 WXRT 93.1 IL Chicago, poor with adult AOR 121
- 1630 WIFC 95.5 WI Wausaw, Team Electronics ad over and under WNUA
- 1630 WNUA 95.5 IL Chicago, new age, ID o/u/WIFC 121

APRIL 7 Troposcatter continues

- 1700 WCAL 89.3 MN Northfield, ID 218
- 1705 KXLP 93.1 MN New Ulm, local ads, ID, wx 254
- 1730 WJJQ 92.7 WI Tomahawk, 38 degrees at Northwoods Country Radio, WJJQ 161
- 1735 KROC 106.9 MN Rochester, FM 107 IDs 163
- 1746 WUPM 106.9 MI Ironwood, ad for A&W on US2 in Ironwood 230

This tuner is working really well for FM DX. It can be switched to 50 khz steps (useful for pulling in adjacent) and has user servicable bandwidths of 400 and 200 khz, not as selective as a modified tuner, but a lot better than most. The 200 pos. makes it possible to hear WKLH 96.5 under WMLI 96.3 (26db louder) and WDDC 100.1 under WJVL 99.9 (24 db louder). It's also got the best AM section I've seen for a hi-fi tuner. Looking forward to getting a real antenna on this thing, in the summer (Welcome to the Column, Doug!-gc)

BILL NIENAJADLY - 98 HIGHLAND AVENUE - CLIFTON, NEW JERSEY 07011

APRIL 1990

10 Aurora

0720 strong hash with antenna North, no IDs
Isn't it rare in the morning? (I dont think so-gc)

13 Tr-Scatter

- 0155 WRPI 91.5 NY Troy, club music 158
- 0200 WXXI 91.5 NY Rochester 235
- 0220 Aurora again. Hash to the North

16 Tropo

0800+ Nice coastal trop to Virginia Beach area, short

Comments: WMC MS logging was interesting! First real weak then later in full quieting, first time ever noticed that. I went to Paul Mount's house and I mod his Sony & Kenwood, and they are much better now. We opened up his Onkyo T-9090 MkII and counted NINE filters, and yes one of them has 150 khz on it! Visited Bill Burrows in South Jersey and had a couple of NYCs on FM 3miles from Philly on the mod analog car radio!! Also visited Roxboro (Philly antenna farm). What a very impressive sight!! I've never seen so many towers anywhere in one place!! Well that's it from up here and thanks to Bruce and Time for excellent filter articles in the April VUD!!

GOODxing, Bill

APRIL 18, 1990 Tr-S

1945 WENU 101.7 NY Hudson Falls, regular! 185

APRIL 21 MS.

- 0903 WMC 99.7 TN Memphis, "...WMC Memphis." week! Ex: es logging 958
- 1325 WWSH 99.7 PA Pittsburgh, TrS, weak 311
- 1417 WMC 99.7 TN Memphis, "FM 100 proud to offer up Olson and Company every morning during the week 6am to 10am..." Again!!
- Full quieting for a 10 second burst!! 958

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

SPRINGTIME TR GETS UNDERWAY

During the latter half of April the spring tr started firing up. The most distant loggings were a few in the 400-600 mile range. Turning to Es, it has been awfully inactive, so far. Fortunately, it's the time of year when Es has no place to go but up, so try to get in the habit of checking for that sporadic stuff regularly. Elsewhere in this special issue, commemorating a certain super year for FM DXing, a look at an unsuccessful tuner modification.

-1980-

*****IT'S BEEN 10 YEARS AGO: 1980's SUPER DX WAS POURING IT ON!*****

Ah, 1980, it wasn't a bad year for the world of FM DXing. Back then the FM Atlas was little more than half the size of the current one. Digital readout was becoming common place with the Akai AT-404 digital tuner getting good notice. And then there was that all out fabulous 1980 DX season. 10 years ago many DXers in the Midwest and South were thrilling to the finest DX season ever before experienced. Trop was what got the 1980 season off to a rousing start on May 10-12. Tim McVey, then DXing in western TN, reported on it in this way, "2300--By now TX FM is like locals, with full stereo quieting, and s-meter all the way to the right! Most locals wiped out. 0740--After SEVEN HOURS, conditions are unchanged. KAFM and KOAX (Dallas) stayed in in full stereo for over 22 HOURS! 5/12 0645--Severe CCI on all VHF TV. Schoolmates report that Memphis locals don't come in.....was the best tr DX I have ever had." Good tr continued off and on during the remainder of that May. An article in the 5/28 Stillwater News-Press explained why complaining cable subscribers were experiencing "flickering pictures and harsh horizontal lines" on TV 4 of Oklahoma City. The interfering culprit was TV 4 from Dallas. The first of June saw the trop pick up a renewed burst of energy and commenced streaming down from the skies in unprecedented amounts. An unusually intense and humid high pressure system stagnated in the Texas area and turbo-charged the trop. And the heatwave producing weather system got stuck. Before June was over, two monumental openings formed, with both amazing DXers by lasting non-stop for a solid week or more. Ducts developed all over the place, not in just a narrow repeated pathway. Busy DXers logged hundreds of stations. Distances heard from in some cases approached 1000 miles. At one point a 10 watter was noted from a distance of 410 miles. The signal intensity of much more powerful stations from similar distances was incredible. DX or CCI could be found on every channel. For July and August the rounds of trop settled down somewhat with the focus of the activity concentrated more on places between the Midwest and the Northeast. But by September 1980 the VUD FM report column both unanimously headlined in agreement that it was the best season ever. Beforehand, the August Southern FM DX noted that the August column was the longest one ever put out, all done amazingly enough without a helping hand from prolific DXer Pat Dyer, who was too overwhelmed by the volumes of DX to report.

E-skip also made the rounds in surprising style, but it was an oddball season for it. The major activity for most DXers concentrated on only two dates but highly memorable ones. June had been strangely quiet for Es until the 18th when a beyond awesome, multi-cloud producing opening sprang forth with very strong signals on that morning and proceeded to last all day. John Ebeling of MN then logged 27 states in 10 hours and remarked, "The skip opening of June 18th was one of the best openings I can ever recall in over 30 years of DXing." July 17th was the other bang-up day for DXers with skip into TV 7. Here's a further straight from the heart look at what 1980 meant for FM DXers in individual comments gathered from 1980 reports: "Stations from the St. Louis area at 310 miles have been full strength competing with the locals nearly every day. The Iowa City, Cedar Rapids and quad city stations were full strength like never heard before. KRNA 93.9 in Iowa City had Chicago's WLAK wiped out for days. So many stations were blasting in that it was impossible to get ID's on everything." "About the middle of May things started happening. Things like tr in all directions lasting for days at a time. Es for 180 degrees and lasting 8 to 10 hours at a time. All this I had only heard or read about. 6/15, checked the radio at 0235--it was hot with tr. I worked it till 0320 and got too sleepy to continue. Up at 0830, radio is hotter with several 6 & 800 mile tr catches in all directions. It wore me out." "100 new stations added in five days, a record for me." "Boy, was I surprised to hear Jamaica and PR on FM." "2310 The super skip opening is out!!; finally, tired from all of this 11 hour opening"(7/17) "I guess that with this kind of tr I don't need Es, hi." "I guess those atmospheric gremlins who delight in throwing monkey wrenches in the great DX machines in the sky had to take a breather, hi." "All I can say regarding the summer of 1980 is: incredible." To close off, hopefully looking back on 1980 can encourage newer as well as veteran DXers to always hang in there. Who knows, another year like 1980 may just be around the corner.

Matt Sittel, 220 Brookfield Drive, Kinsport, TN 37663

Equip.: Yamaha TX-900U tuner, Radio Shack 15-1636 FM antenna (All DX is from Raleigh, NC)

4/1 tr	
0953 WTCB 106.7 SC Orangeburg, "B106"	201
4/2 tr	
0656 WZCL 105.3 VA Norfolk, "Cool 105.3"	156
0659 WHRO 89.5 VA Norfolk, ID	156
0706 WVTF 89.1 VA Roanoke, "FM 89"	124
0755 WQDK 99.3 NC Ahoskie, local ads	103
4/9 tr	
0754 WTCB 106.7 SC Orangeburg, "B106"	201
4/17 tr	
0855 WBPR 97.7 SC Georgetown, "Power98"	171
0903 WDKZ 104.5 SC Mt. Pleasant	216
0904 WYAK 103.1 SC Surfside Beach	156
0914 WSSX 95.1 SC Charleston	218
"right over WRNS"	
0914 WVPV 94.9 VA Roanoke, calls	124
0918 WJYR 92.1 SC Myrtle Beach, calls	147
0921 WRHK 95.3 VA Colonial Heights, k	125
0922 WDZD 93.5 NC Shallotte, "93 DZD"	131
0929 WIBZ 99.3 SC Wedgefield, "Z 99"	165
+ unID 98.9 "The New Country Wave"	
4/19 tr	
0819 WYAK 103.1 SC Surfside Beach, "Y103"	156
0838 WYFG 91.1 SC Gaffney	175
4/20 tr	
0805 WTCB 106.7 SC Orangeburg, "B106"	201
0810 WYFG 91.1 SC Gaffney	175
4/22 tr	
1046 WMIT 106.9 NC Black Mountain	204
1054 WTCB 106.7 SC Orangeburg	201
4/23 tr	
0753 WTCB 106.7 SC Orangeburg	201
0755 WNVZ 104.5 VA Norfolk	156
0801 WYFG 91.1 SC Gaffney	175
0805 WSSL 100.5 SC Gray Court	213
0814 WYAK 103.1 SC Surfside Beach, "Y103"	156
4/24 tr	
0804 WBPR 97.7 SC Georgetown, "Power98"	171
0806 WSSL 100.5 SC Gray Court	213
0844 WTCB 106.7 SC Orangeburg	201
4/25 tr	
0759 WSVH 91.1 GA Savannah	298
0805 WLOW 106.9 SC Bluffton, calls	270
0808 WYAK 103.1 SC Surfside Beach, calls	156
0811 WHYK 99.7 SC Port Royal	259
0824 WBPR 97.7 SC Georgetown	171
0824 WCOS 97.9 SC Columbia, "Great98"	179
0825 WKWT 98.3 SC Kingstree	160
0831 WNRJ 107.7 VA Warrenton	209
4/27 tr	
0853 WYAK 103.1 SC Surfside Beach	156
1022 WNVZ 104.5 VA Norfolk, "Z 104"	156
1024 WSSL 100.5 SC Gray Court	213
1031 WANS 107.3 SC Anderson, "107 WANS"	242
1034 WYFG 91.1 SC Gaffney	175

Keith D. Pugh, 227 Martin St., New Hope, AL 35760

4/13 gw (new/air)	81
1703 WSSY 97.5 AL Talladega, rm, \$, Sunny 97	
4/18 tr (both rare)	
1001 KHLT 94.1 AR Little Rock, K-Lite	310
2142 WOOF 99.7 AL Dothan	235
4/19 gw-tr (mixing w/WGIB, B'ham)	
2300 WMBE 91.9 AL Dixon Mills, g, ID	190
4/25 tr	
1800 WBLG 107.1 KY Smiths Grove, ID	160
1812 WMCQ 104.9 GA Milan, wx, ID	255

4/27 tr	
1038 WDAV 89.9 NC Davidson, "Classical 89.9"	129
2355 WIVY 102.9 FL Jacksonville, "Y103"	413
2358 WHRO 89.5 VA Norfolk	156
4/28 tr	
0003 WJYO 107.7 FL Mount Dora, "Joy 108"	513
0022 WJCS 97.9 NC Bayboro, k, new station	119
0026 WJYR 92.1 SC Myrtle Beach, calls	147
0028 WBPR 97.7 SC Georgetown, "Power 98"	171
0029 WCOS 97.9 SC Columbia, calls	179
0040 WCRJ 107.3 FL Jacksonville, "The Rooster"	413
0045 WFFY 104.5 FL Atlantic Beach, "Rock 105"	410
0052 WBGA 102.5 GA Waycross, "Country 102.5"	380
0100 WPGO 106.3 NC Shallotte	131
0427 WNVZ 104.5 VA Norfolk, "Z 104"	156
0432 WYVD 107.9 VA Amherst, k, calls	127
0651 WAGI 105.3 SC Gaffney	175
0652 WOCL 105.9 FL De Land, "Cool 105.9"	491
0704 WSPA 98.9 SC Spartanburg, wx	192
0707 WFBC 91.7 SC Greenville, "B 93.7"	219
0709 WYFG 91.1 SC Gaffney	175
0713 WKSX 92.7 SC Johnston, calls	222
0715 WHLZ 92.5 SC Manning, "Wheels 92.5"	168
0737 WKHK 95.3 VA Colonial Heights, "K 95"	125
0738 WRHT 96.3 NC Morehead City, local ads	133
0741 WEZC 102.9 NC Hickory, local ad	148
0747 WTCB 106.7 SC Orangeburg, "B 106.7"	201
0752 WCHY 94.1 GA Savannah, "Y 94 FM"	298
0759 WYFS 89.5 GA Savannah, ID	298
0801 WHYK 99.7 SC Port Royal, ID	259
0815 WRVQ 94.5 VA Richmond	142
0819 WCXR 105.9 VA Woodbridge, calls	213
0822 WRQX 107.3 DC Washington, "Q107"	236
0909 WXLV 102.5 SC Charleston, calls	218
0910 WSCQ 100.1 SC West Columbia, "Q100"	182
0917 WYYS 96.7 SC Cayce, calls	185
0920 WDAV 89.9 NC Davidson	129
0922 WOMG 103.1 SC Columbia, "Magic 103.1"	179
0934 WLOW 106.9 SC Bluffton	270
0954 WZAT 102.1 GA Savannah, "Z102"	298

A combination of a strong high pressure, a good tuner, and an FM antenna all came together to produce some exciting DX on April 27-28. Hearing FL on FM was a big surprise, especially while I was still amazed at hearing WIVY to suddenly hear a legal ID from WJYO! Both those two apparently stayed in all night, to be joined by WOCL, which may have been in at 0430 yet did not stay in for very long then. WIVY faded only to return at 0952! Logging DC was nice also. I now have only 4 frequencies that I have yet to log something on: 90.3, 91.7, 91.9, and 95.9. I hope everyone has a good summer filled with FN DX!!! 73s Matt.

Doug Allen, POB 5646, Woodland Park, CO 80866

Equip.: Denon TU-800, stacked Stereo Probe 9's at 25'

4/24 tr	
0710 KGRK 107.7 KS Goodland, local strength	
0720 KYEZ 93.7 KS Salina, "KY Country 94"	
0721 KHGD 89.5 KS Salina	390
0730 KQLS 100.3 KS Colby, o/nulled KMJI	200
0731 KTCQ 91.9 KS Colby, "T-92"	200
0737 K205BR 88.9 KS Colby, "High Plains Public Radio"	200
0740-0800 Wichita stations in @417 miles but not strong.	
4/25 ms	
0710 WWJO 98.1 MN St. Cloud, 10 sec. burst, local ad	

4/25 ms	
0714 unID 98.1 "your Cardinal's baseball stn."	
0715 WMMG 98.1 WI Madison, ID	
0720 WGGZ 98.1 LA Baton Rouge, "Z-98"	
4/29 tropo scatter	
1705 KGUC 98.3 CO Gunnison, wx + ID	
1747 K296GL 107.1 CO Breckenridge, KZYR trans.	
1810 KQIX 93.1 CO Grand Junction, full Q	
1827 KSIT 104.5 WY Rock Springs	
1829 KSPN 97.7 CO Aspen, 2nd time heard	
5/6 ms	
0749 KOOLt 94.5 AZ Phoenix, "It's 85°"	

High pressure resulted in good tr directly east to Colby and Salina on the morning of the 24th. Nebraska stations to the north of that line and Wichita to the south showed a little enhancement, but Salina was full Q for at least an hour. A snow storm on April 25 gave us some tr scatter across the 14,000 foot continental divide; we've not had any really good tr west over the divide in our 2 years of DXing here, and I'm not holding my breath! April provided much less tr DX this year than last. Cloudyness, very unusual here, occurred over half the days with almost 3 times the average April precipitation, including 38 inches of snow the last 4 days of the month! (It was so cloudy and rainy in Oklahoma during April that the Daily Oklahoman did a front page story on the psycho effects from long periods of cloudy, sunless weather. Rainfall for the month in Stillwater added up to nearly 6 in., about twice normal. At least some tr here came out of all that rain. DB) Still looking for my first 600 mile tr. That, 3 new states, and 150 new stations are my 1990 goals. Some of my DXing henceforth will be from my store in Divide, about 4 miles west of here at 9150' elevation, but with a poorer horizon than my 9000' location here. By the time you read this the Es will be well under way. Good DXing everyone.

Gus Mancuso, 5615 Inwood St., Hyatts, MD 20785

5/6 tr	
(From Cordova, MD, on "Eastern Shore")	
1732 88.3 WRVL VA Lynchburg	
2016 94.9 WVPV VA Roanoke	

5/6 tr	
2128 98.7 WVIL NJ Vilas	
2000 106.9 WAFX VA Suffolk	

UnIDs on 99.3 and 98.7 (probably WRXS NYC) Results were disappointing to say the least. Brought Pioneer and Technics, both filter modified and set up side by side. Enhancement was actually less than on a cold Thanksgiving and Christmas trips! Weather was rainy on Sat. Evening with cold front coming thru overnight. The following was typical: I tried to null WSN 104.5 Phil. to look for something else, but then WBSB 104.3 Balto would spill over. WDLB 107.1 was off but could not take advantage of. New total: 135. Still have to think this spot (Cordova) will be good come summer, esp. for morning tropo, only 5-10 mi. away from Bay. Should be able to get NY to NC.

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

Equip.: Pioneer TX-9100 modified, Antennacraft FPM 10 up 20 ft.

4/29 tr	
0850 WLTS 105.3 LA Slidell, ad about cajun food, "Life 105"	590
0855 KCIL 107.5 LA Houma-New Orleans, ID	
0900 KOOI 106.5 TX Houston, k	460
0906 KILL 95.7 TX Houston, k	

4/29 tr	
0917 KEYI 103.5 TX San Marcus	
0924 KSTV 105.7 TX Stephenville, calls	275
0929 KZFX 107.5 TX Lake Jackson-Houston, ads	
0930 WKRW 92.3 LA Laplace, jazz show	570
0932 KYOT 106.7 TX Grandbury-Ft Worth, ID	250

After doing without good tr from so long, it was nice getting a long haul opening started off by tuning in something strange, like talk of cajun food. I thought it meant I had to be hearing from Louisiana and was proven right.

ONKYO FILTER MOD. ATTEMP. After learning that the McIntosh filter that a McIntosh MR-78 engineer used to good effect on the Onkyo T9090 was actually of the very expensive crystal type rather than ceramic, I decided to go ahead and try the 150 kHz filters on my Onkyo T9090. Gaining access to the filters was easier than on the Pioneer, requiring only the removal of the top and bottom covers, with sockets installed only the top cover. The Onkyo required 6 filters, not 3 earlier stated. 3 bright blues and 3 pale orange ones, not spotted upon first look. Performance wise the 150's made for little improvement in selectivity. The Pioneer was still better, especially to the right of strong signals. So the Onkyo design must be pretty good to start with. And so, for now, the Pioneer will replace the Onkyo as my primary DX machine. As suggested by Tim McVey, I changed one of the 180 filters in it to 150. It might have helped but not by much. In nearly every case the Pioneer can't be center tuned next to three of the locals as in tuning in KIMY 93.5, 80 miles away next to KSPI 93.7, but nevertheless KIMY gets through good enough to be understood. So I'm pleased, not complaining, really. The Pioneer still overloads some with

cont....

antenna aimed toward two the the strongest locals, but that problem may end soon when those two locals move jointly to a new 1033' foot tower located 9 miles west of me. Currently they are 4 and 5 miles away. From good vantage points in Stillwater at night they're tower's lights make for an impressive feature above the western horizon. KSPI and KOSU are the locals making the move. 73 and good DX.

Greg Coniglio, 5100 Glenwood Dr., Williamsville, NY 14221

Vacation DX: Myrtle Beach, SC

4/8 tr
1320 HRVQ 94.5 VA Richmond, r 280
4/9 tr
0908 WNNY 100.3 SC Elloree, s 95
1510 WQTK 99.1 FL Jacksonville, k 300
4/10 tr
0945 WZKS 98.3 GA Jesup, oldies, Coast 98
call change? See note 230
1835 WIOI 100.7 GA Brunswick, cls.r, \$ 238
4/13 tr
2028 WMYK 93.7 NC Eliz. City, rs\$,K94 230
2235 WRSF 105.7 NC Columbia, Surf 106,
(next to strong WNMB 105.5) 220

4/13 tr
2243 [WKTG] 96.9 NC Tarboro, k\$, over WXTG,
"Katie Country", ex WEQR 165
2250 WRCC 103.5 NC Dunn, cls. r, Q103 122
4/14 tr
1820 WAFX 106.9 VA Suffolk, cls. rock 241
1821 WNVZt104.5 VA Norfolk, top 40 260
1825 WHTT 103.7 NC Williamston, rs, \$ 178
1851 WJHR 106.1 SC Hilton Head, WLOW
Bluffton, SC also is now on 106.9, ex
107.1

Not as much DX as last year, but conditions were better to the north this year. Weather was mostly sunny but cool(60's), A large building just to the south of us seemed to completely block everything from Hilton Head to Savannah(except WHTK). The WJHR logging was from the Ramada hotel, which was higher(23 floors). Trop-scatter seemed to fade up to local strength at that height. Anyway, 98.3 Jesup came in just fine often despite this, which seemed strange. Last year Savannah was a semi-local. And on the way back, I believe, I've found an excellent DX area, central WV, especially the rest stop along I-79 at "Duck", WV. I only had a few minutes, but I logged WQDR 94.7 NC(230), WZZG 95.1 NC, strong(250), WFGC 95.5 DC(210), WLAP 94.5 KY (200) plus tentative WUUU 94.5 SC, WOKI 100.3 TN and many unIDs. The elevation was very high there and it paid off. 73's.

SOUTHERN FM DX is for reporters in: AL, AR, AZ, CA, CO, DC, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, MN, NV, OK, SC, TN, TX, UT, VA & WV. Report today!

NORTHERN FM DX continued from 26

JUNE 1990

RALPH STROBEL - 106 E. DAVIDSON STREET - MUNCIE, INDIANA 47303

Equipment: McIntosh MR-78 FM Tuner - Stereo Probe 9 Antenna 37 feet above ground

February 1990 (EST)

9 MS
0224 WXGL 93.9 ME Lewiston 822
10 MS
0131 WLVE 93.9 FL Miami Beach 1040
19 tr
0159 WJCR 90.1 KY Millerstown, g\$ 195
March 1990
3 tr
0347 WOSV 91.7 OH Mansfield, c\$, 750w 155
(#200 from OH) WOSU/WOSV ID o/WUOM/WVXU
12 tr
0300 WJAO 90.1 KY Pikeville, g\$ 238
(WFYI 90.1 IN Indy, off air Mon morn)
17 MS
0314 WMJX 106.7 MA Boston 758
19 MS
0305 WSFP 90.1 FL Fort Myers 959
(verified by letter to WUSF/WSFP)
21 MS
0011 WMJX 106.7 MA Boston 758
31 tr
0050 WVXN 89.5 OH West Union, r\$, 125
(// WVXU 91.7 & WVXR 89.3)

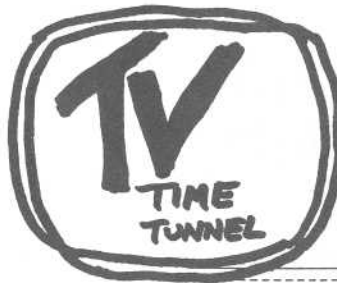
April 1990 (CDT)

3 tr
0430 WBTQ 93.5 WV Buckhannon, s/on 286
7 MS
1043 KVNE 89.5 TX Tyler 719
tr
1957 WJFX 107.9 IN New Haven-
"Foxy-107.9" Fort Wayne, o/WFPI 65
13 MS
2341 KLOL 101.1 TX Houston 915
14 MS
0011 KTEZ 101.1 TX Lubbock 1017
0310 WMBY 93.5 MI Newberry 435
0533 KMZU 101.1 MO Carrollton 434
tr
0600 KCLR 94.5 MO Poplar Bluff, 360
local nx for AR/MO, wx, o/WLRW/WLAP
16 tr
0330 WMMT 88.7 KY Whitesburg, 258
WICR/WOBC off air, polkas \$ o/CIMX
24 tr
0100 WKPB 89.5 KY Henderson, c\$, 200
(// WKYT 88.9 & WDCL 89.7)
(All stations underlined are new to log)

Meteor Scatter Results:

2/9 WXGL "...It's 32 here at
Eagle-94 WXGL..."
2/10 WLVE "...Love-94 with love jazz every
night and all day Sunday..."
3/17 WMJX "...continuous soft hits from
Magic 106.7 WMJX - Barry Manilow there..."
3/19 WSFP "...gulf coast of Florida.
I'm Steve Carroll and I'll be around..."

3/21 WMJX "...all night just for you.
We're Magic 106.7 WMJX..."
4/7 KVNE "...a difference - KVNE..."
4/13 KLOL "...KLOL..."
4/14 KTEZ "...on KTEZ 101.1..."
WMBY "...right here at WMBY..."
KMZU "...KMZU..."
(January 1990 produced no MS/tr/Es!!)



BY:
TOM BRYANT
849 Todd Preis
NASHVILLE
TENNESSEE
37221



THE GREAT GROCERY CRASH
[conclusion]

WHAT'LL THE BOSS DO?: Thankfully, the remainder of that ill-fated newscast came off without a hitch. Between the time of the grocery crash and the second live commercial insert, one of the studio hands had hastily repaired the fallen display. When the news was over, all I could do was worry about the consequences of what had just happened. After all, I was the one responsible for this colossal screwup! The next morning there was a note in my mailbox to stop by the General Manager's office. When I got there, his secretary stared icily at me and snapped, "He's ready for you. Go in." Her vibes were not encouraging. As I sheepishly entered his office he was grinning like a Cheshire cat. He just sat there...with that stupid grin...and looked at me. Finally, he cleared his throat (I think to choke back laughter), gazed at the ceiling, and said, "I was watching the 6 o'clock news last night." Silence. More silly grinning. I guessed maybe it was my turn next, so I said, "Uh, yeah, I was afraid you might have seen it." More silence. More grinning...by now I'm in a cold sweat...I don't know if he's ready to explode or if he thinks it was funny! "Well," he finally said, "I was really going to give you hell about that mess...BUT...the guy from the store LOVED the whole bit and called me to be sure we'd do it again tonight! I had a helluva time talking him out of it!" The pressure was off! My heart started beating again! He added, "We WON'T be doing it again...will we?" "No," I replied, "We won't...at least not if I can help it!" And we (I) didn't!

REFLECTIONS: When you're 15 years old and up to your ears in the responsibilities of the adult world, occurrences such as this make a lasting impression. If any lesson was learned as a result of this episode, it was a reminder to pay attention to even the smallest details. Such were the pitfalls of early small market tv stations with limited facilities (not to mention rookie crew members)! TV's sure not as much fun now!

TIME TUNNEL ON THE TUBE!: Although I've been in radio (and on and off in television) for almost 35 years, I've never felt comfortable in front of a camera. That uneasiness was uncapped again when a former radio co-worker who now produces features at WSMV (4) here in Nashville decided to do a bit on my DX hobby after I showed him a few DX tidbits last fall when he visited my home. Several months later, he and a photographer spent almost 2 hours putting me through my best DXer paces. The feature aired twice on March 2. Although my former colleague had to take a few liberties in order to make the pieces fit together, the finished product turned out exceptionally well. I don't mention this to toot my own horn, but to plant the seed that maybe there's a feature guy at a station near you who would Flip over your hobby. If you're interested in seeing what WSMV aired, just send a cassette (VHS or Beta) plus return postage; and I'll run off a copy for you. By the way, the WSMV people tell me that they're going to try to peddle it to NBC for feature use by any affiliates interested in using the piece; so...you may run across it sooner than you think!

LXXIII

IONOSPHERIC PROPAGATION: NEW(?) OPINIONS

BY JOOP J. PROSÉE

During my 15 years of TVDXing, one thing has come clear to me: knowledge of ionospheric propagation among fellow-TVDXers is only marginal. Of course, I admit that one can become a rather skilled TVDXer without knowing anything about propagation! Is TVDXing only a matter of staring at the TV-screen and waiting for the things to come? Or is TVDXing more than that? The TVDX-hobby can be split up into three main parts: [1.] Receiving of distant TV-signals. [2.] The technical part, building, improving & testing of the TVDX-installation. [3.] The propagational part, knowledge about how TV-signals travel through Earth's atmosphere.

Of all phenomena that are known and studied of our planet, the known facts about ionospheric propagation have always stayed behind. Especially the mechanisms that are involved with propagation of frequencies higher than 20 MHz; these are only partially studied and known. This is due to the fact that normally those frequencies are not used for traffic over long distances! Frequencies between 25 and 50 MHz are used in many countries for: Mobilphone, CB-radio, HAMS and Semaphore networks, etc. Above 50 MHz TV Band I/OIRT and CCIR-FM are allocated. All above-mentioned services are set up for only "line of sight" reception, thus why study propagation of these signals over long distances?

HAMS, VHF DXers and military people are the only ones with serious interest in Ionospheric VHF propagation. Unfortunately military findings about propagation are almost always classified. What kinds of Ionospheric propagation have value for us (TV)DXers? The most occurring sort of Iono-DX is the "Meteor Scatter" (MS) mode. This MS-mode is present every day of the year, mostly with extreme short flashes of TV-signals in Band I (low band TV), rarely for some longer time; up to a few seconds! The origin of the MS-phenomenon is rather well-documented and understood. In its circle around the sun, the Earth is almost constantly crossing orbits of comets that fell into pieces a long time ago, but these little parts stayed to orbit the sun in the original ellipse of the former comet. Our Earth collides with these particles and because of their high speed they mostly burn completely in the astmosphere as a result of severe friction leaving behind an ionised trail in the atmosphere lasting for a very short time. The general opinion is, that VHF-signals are reflected against these trails and received over distances of +/-800 km to +/-2000 km. Personal investigation shows that in Holland so called "Winter-MS" is almost always showing TV-signals from the North and East. Sweden ch E2 and USSR on ch R1 (Leningrad) are commonly coming in, also appearing very regular. Norway's NRK (ch E2 + E3), Finland (ch E3) and Czechoslovakia (ch R1). Normal sporadic-E countries such as Spain and Italy never show up as MS flashes during wintertime.

The most important Ionospheric kind of propagation is the wellknown Sporadic-E (Es). This is the propagation mechanism that enables us to watch very strong TV-signals of transmitters from all over Europe and sometimes even further, in Bands I and II. Scientific research of the last few years has resulted in a better understanding of the phenomenon of Sporadic-E. Some years ago Es was explained by sporadic appearing "irregularities" in the normal E-layer. Nowadays we know that the E-layer and sporadic-E have nothing to do with each other, the only similarity of these two matters is that they both appear in the same region of the atmosphere (around a height of 120 km!)

What does according to the latest research actually cause sporadic E-skip conditions? For that answer I have to go back to the origin of MS. Samples out of Es-areas show the surprising existence of small metal particles high up in the Ionosphere. All samples show traces of Iron, Chromium, Platinum, and Iridium in a state of severe ionisation and density. It's no coincidence that these metals are important elements of above-mentioned shattered comets, commonly known as Meteors and Meteorites. Sporadic-E areas are normally shaped as a "pancake" with surfaces from several hundreds to several thousands of square kilometres and thicknesses from a few metres to a few hundreds of metres in our latitudes. Researchers found that these ionised spots arise because of winds at that height that sweep the little ionised

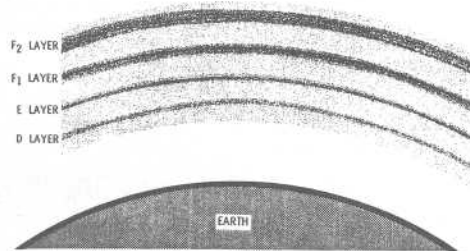
IONOSPHERIC PROPAGATION: NEW(?) OPINIONS

meteorparticles together and so forming the characteristic Es-clouds of our mid-latitudes.

Forming of these clouds starts already at a height of +/-200 km where the slower meteors vaporise. A slowly downward motion takes care of an increasing strength of ionisation because more and more ionised material is gathered. When an altitude of +/-140 km is reached, reflection of VHF-signals becomes possible and when the forming Es-cloud arrives at an altitude around 110 km ionisation becomes so high that reflection of frequencies up to 150 MHz is possible! Besides a downward motion most of the times a horizontal motion of the Es-cloud arises; in our latitudes almost always moving from North to South. Which can be observed very well here in Holland. Es-conditions do start very often with NRK=Norway, SVT=Sweden, YLE=Finland and northern Soviet transmitters then going southwards via TVP=Poland, MTV=Hungary, YT=Ukraine, TVR=Romania, JRT=Yugoslavia and RAI=Italy to TVE=Spain and RTP=Portugal. Regularly the increasing of the strength of ionisation can then be observed, relatively nearby transmitters such as ORF (Austria) on ch E2a, SRG (Switzerland) on chs E2 & 3 and ARD Grunten (Germany) come in with strong signals.

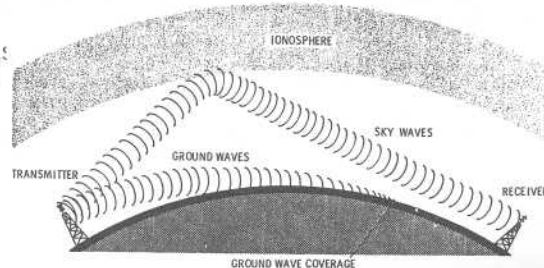
Normally the maximum distance in Band-I that can be reached with Es lies around 2500 km. Sometimes however, considerable bigger distances can be covered. Commonly known are receptions from the Middle-East with distances between 3300 and 5000 km. A good explanation for these exceptional distances is not precisely at hand but it appears that the commonly given interpretation: "multi hop propagation" is wrong! Recent research shows that hopping of electromagnetic signals between the ionosphere and the Earth's surface is very questionable, not only for Band-I frequencies, but also for Short Wave-frequencies. Especially with Sporadic-E it is more likely that bigger distances could appear by means of so called "Cloud to Cloud Propagation" or a combination of different kinds of propagation (tropo & Es). When Sporadic-E becomes extremely wide-spread in June/July, Es-clouds can join and another phenomenon might occur, the so called "Supermode" also known in the USA as "Pederson Ray." With this sort of propagation the signal travels over a considerable distance in the ionised layer without going down to Earth! This propagation can be compared best with "Tropo-Ducting" and some do call this "Ionospheric-Ducting." Probably this was the mechanism behind the amazing transatlantic TV-captures in the summers of 1987 & 1988! Although Sporadic-E is widely considered as a daylight mode, strong signals in the dark hours do often occur! Besides the very important role of meteors and meteorites the sun also plays an important role. Its radiation keeps the ionisation going on.

THE LAYERS OF THE IONOSPHERE MOST IMPORTANT TO DX-ERS IN THEIR DAYTIME CONFIGURATION. THE F1 LAYER IS NORMALLY COMBINED WITH THE F2 LAYER AT NIGHTTIME. (THE D LAYER SOMETIMES ATTENUATES SIGNALS BUT IS FOR THE MOST PART UNIMPORTANT)



(NOT DRAWN TO SCALE)

CONVENTIONAL "ONE-HOP" SKIP THEORY OF RADIO AND TV SIGNALS COMPARED WITH NORMAL (NON-DX) GROUND WAVE COVERAGE



(NOT DRAWN TO SCALE)

The third ionospheric propagation mode that is important for TV/VHFdxers, is F2-propagation. F2-DX in the lower VHF frequencies becomes possible when solar activity reaches its maximum around the peak of a solar cycle. Propagation of these lower VHF-signals becomes possible on a worldwide scale if solar activity reaches high enough. F2-propagation is rather well documented, because of the fact that shortwave broadcasts are for the major part relayed via the F2-layer. When solar activity increases, the MUF (Maximum Usable Frequency) is also rising and the higher the activity the higher the MUF. The highest MUF observed during the solar peak of 1979/82 was well over 70 MHz. Unfortunately the MUF is not only dependent on the height of the solar activity but also on the distortion of the Earth's magnetic field (A- and K-Index) that is also caused by solar activity! The '79 - '82-peak showed a rather quiet Earth magnetic field and this resulted in very good VHF-F2-propagation with high MUFs. The peak of this very moment shows much more distortion of the magnetic field and higher A- & K-Indexes than for ten years! In spite of a much higher total solar activity than in '79 - '82 (solar spots!), up to now the MUF has been surprisingly low! Reception of signals higher than TV-channels E2/R1 (+/-50 MHz) has been very rare.

VHF-propagation via the F2-layer, follows the same rules as for normal shortwave propagation. Just like with Sporadic E here too are doubts about the zigzag-hopping of the electromagnetic signal between the F2-layer and the Earth. More and more evidence is gathered that shows that here too the signals travel in the ionised layer over considerable distances. Even round the world is possible without one single hop! This kind of propagation is also called "Supermode" or "Pedersen* Ray." Scientists do mostly call this form of propagation "No-Hop." Now the question rises, if the signal is going high in the ionosphere over our heads, why can we still receive some of it? Ionised gas is not only conducting a signal but also scatters the signal at random. And it's just this scattered signal that we DXers are believed to receive!

In reviews in HAM and DX-magazines, on solar activity it's often said, that solar magnetic-eruptions and solar-flares (Protuberances) increase ionisation of Earth's ionised layers! In reality the effect on the ionisation of the atmosphere is opposite. Of course it's a well-known fact that these solar eruptions and flares are a disaster for a high MUF and sometimes their intense radiation and bombardment of protons does make the Ionised layers completely disappear for a considerable amount of time.

What DXers need is a quiet sun without major eruptions and flares but with a higher total level of solar radiation; this can normally be found around the peak of the solar-cycle! This generally quiet higher solar-radiation level is the cause of a high MUF!

Another ionospheric propagation-mode that is related to F2, is Trans Equatorial Propagation (TEP). This propagation mechanism was discovered by 50 MHz HAM's in 1946/47, during the peak of solar cycle No. 18. TEP can be important for VHF-DXers and is especially known for the reception (in Europe) of Zimbabwe-Television Gwelo on ch E2 and 50 MHz HAM's from southern Africa. One of the major differences with normal F2 is the fact that the TEP-MUF is 1.5 times the F2-MUF over the same path. The best months for TEP are, September/October and March/April (Equinoxes) in the late afternoon! TEP works best on paths perpendicular to the geomagnetic equator and during periods with high solar activity. It can however also occur in times of low solar activity!

*) Pedersen was already before 1940 the first researcher who supposed seriously the existence of the "Super-Mode" as a better explanation for Shortwave-propagation than the "Multi-Hop" theory.

Questions & Remarks to: JJP. * REIGERSTRAAT 1 * NL-1715VN SPANBROEK * THE NETHERLANDS * VHF/UHF-TV DX STATION QTH: 52N42-04E57 * Phone: 02263-2291

STATION BREAK

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

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

FOR SALE - Video Link rental movie stabilizer. \$45 postpaid from Allen Koo - 240 East 93 St - New York NY 10128

INTERNATIONAL TAPES SWAP - Members would like to correspond with others from South America area, regarding cassettes/videocassettes, swap of local stations. Just send us a tape and you will receive others from many countries. This service is free. To request further information send 2 International Reply Coupons available at the post office). Write to: Rene Gonzalez - Union Universitaria Internacional c/o Jorge Gonzalez - P.O. Box 2483 - Arequipa, PERU - South America

FOR SALE - We have arranged the following (below dealer pricing) for new, in the box, UPS shippable antennas as follows-- Channel Master Stereo Probe (138" boom) \$57.46 plus UPS (only two left); Antennacraft FM-10 (120 inch boom) \$31.00 plus UPS; Antennacraft P-7 (parabolic UHF dish) \$59.00 plus UPS; Antennacraft CS-1000 (30 el. 150" VHF fringe ant.) \$49.00 plus UPS; Antennacraft single channel cut yagis- 5 el. ch. 2, 3, 4, 5, or 6 (80" boom) you must specify channel: \$17.85 plus UPS; 10 el. ch. 7, 8, 9, 10, 11, 12, or 13 (120" boom) you must specify channel \$17.25 plus UPS; Dalco mast mounted 3.5 dB NF 75/300 ohm preamps (specify VHF or VHF-UHF): VHF only, 25 dB gain, \$15.95 plus UPS, VHF-UHF, 28 dB gain, \$17.95 plus UPS. The above prices are for Worldwide TV-FM DX Assn. members only. Best time to reach me is weekend mornings (no collect calls please). Doug Allen - PO Box 5646 - Woodland Park CO 80866 - (719) 687-3549

FREE FOR A SASE - I would like to offer to any other members for just a self-addressed stamped envelope a list of stations in my general area that carry Folk & Celtic music. Dan Cashin - 1335 Harrington Road - Havertown, PA 19083

WTFDAers: YOUR 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.

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