

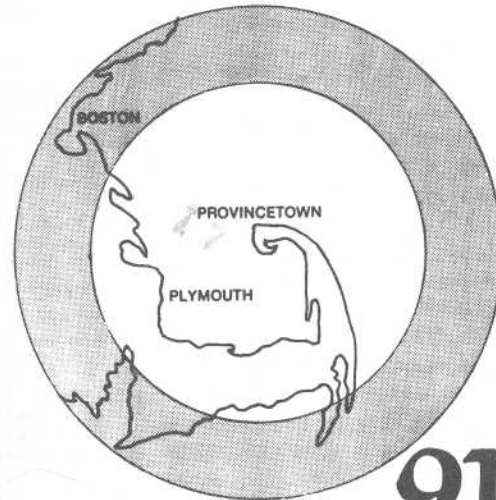
# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

MAY 1991

## WOMR

*Public Radio  
on Cape Cod*



# 91.9 fm

95.9 fm on American Cable  
91.9 fm on Cape Cable

*Covering the  
Lower Cape &  
Beyond*

Box 82, Provincetown, MA 02657  
(617) 487-2619, 487-2106



WORLDWIDE TV-FM DX ASSOCIATION  
POST OFFICE BOX 514-BUFFALO, NY 14205-0514-USA.

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**first class mail**

11/91  
WILLIAM N NOLLMAN  
35 NYE ROAD  
GLASTONBURY CT 06033

# From The STAFF

TIME FOR E-SKIP TO "BLOOM"...It's an exciting time of the year for VHF enthusiasts who anticipate the start of sporadic-E activity. TV and FM reception conditions can be completely normal on a mid- to late May morning when--suddenly--there it is! Some longtime DXers tell us they no longer get very excited about E-skip, but for most of us, it's always great to see it. Lowband TV (ch 2 - 6) stations from about 800 to 1100 miles are most commonly seen in the first few openings, but with luck, the Es events continue to build in regularity and intensity, and start to move up above 88 MHz, resulting in FM DX. The FM band offers many more DX possibilities than TV, so even if the opening is into an area you've seen many times before on TV, try tuning 88 to 108 MHz--you'll be surprised at the diversity of DX "targets" there. Though FM skip is less frequent than its TV counterpart, it is often easier to identify an FM DX station in an E-skip opening. Start watching and listening for it right now--Es will soon be here. A good season can bring us openings on an almost daily basis. No one can predict with a high degree of accuracy how good a forthcoming skip season will be--but that's part of what makes this "unexpected" form of DXing some much fun!

ICE WASN'T NICE TO DXERS...If your DX antennas have recently come down due to severe weather, you are not alone. We've heard from DXers who are rebuilding part or all of their antenna systems due to ice storms. Large areas of the Midwest and Northeast had heavy icing in March. Hardest hit were the Rochester NY and Duluth MN areas; other places, such as central Indiana, faced very extensive ice damage. It's interesting to note that while Rochester took some of the heaviest damage from ice ever to hit a U.S. city, most local stations stayed on. Such was not the case in Duluth, where Bruce Elving reports a TV tower collapse taking all the FM locals off the air! Don't be surprised if your antenna dealer has problems ordering certain items this year. As some of our members in the antenna business can attest, the situation described above may lead to shortages.

BITS...Our condolences go out to '91 Convention Host Bob Seybold, whose wife passed away recently. Despite his loss, Bob intends to continue planning for this year's club gettogether, and will have word in upcoming issues...Many comments and suggestions have come in regarding VUD mail problems mentioned last month. For two of the most useful, we'd especially like to thank WTFDAers Paul Swearingen, publisher of National Radio Club's DX NEWS, and Bob Schaefer, who "moonlights full time" for the USPS...

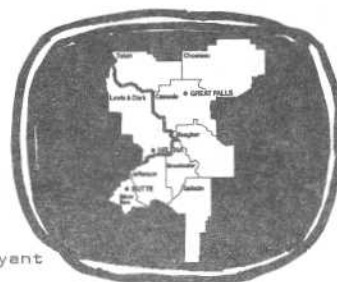
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Thanks to Dave Nieman (PHOTO NEWS editor) for another fine cover.



Submitted by Tom Bryant  
249 Todd Preis Dr.  
Nashville, TN 37221



## MORE ODDS AND ENDS

**THIS IS K???; TV 12:** Does anyone know of a station that's operated under five different call signs, and appeared to have been assigned a sixth (not used) prior to going on the air? Those are the stats on channel 12 in Helena, MT. The original application in 1956 was for KPFA on channel 10; however the application was amended and the station began operation in 1957 as KXLJ-tv [12]. After the local cable company bought the station in 1961 the call became KBLL-tv (say it 'cable'). In 1973 still another owner changed the call to KTCM (Television Capitol of Montana.) In 1980 another buyer made the switch to KTVG (no meaning) and in the mid-80s, after channel 12 in Hutchinson, KS dropped KTVH; still another owner of the Helena outlet picked that call up...and KTVH remains as the current ID. As of last August, KTVG was being sought for a new U in Grand Island, NE. The channel 10 allocation in Helena has been filed for by KFBB; presumably for use as a satellite of their channel 5 operation in Great Falls. Although Helena's channel 12 has at times operated in conjunction with other stations (i.e.: with KXLF-tv in Butte when both were part of the old 'XL' network) it has never been a satellite.

**OLD BUSINESS:** The January 1988 VUD alleged the transposition of letters in the WPSD-tv call, leaving the impression that at one time the channel 6 station in Paducah, KY had been WSPD-tv. Not so...it is and always has been WPSD; the sole broadcast offspring of the Paducah Sun-Democrat newspaper (which, by the way, has dropped 'Democrat' from its name). WPSD-tv's 1638' [ag] tower is situated at MONKEY'S EYEBROW, KY! (Really!!) By the way, that entire market is an oddity and we'll return to it another time.

**BACKTRACKING:** Since I mentioned WSPD-tv in the preceding paragraph, it seems only fitting to pass along a little historical bit about the Toledo, OH pioneer. In a brochure put out by Storer Broadcasting in 1953 a brief item credited to Television Digest of July 17, 1948 states in part, "There's nothing wrong with Channel 13 in Toledo, where second TV station ever to work the topmost 210-216 mc (MHz) band tested all week and reported far happier results than Newark's WATV. WSPD-tv folk think perhaps they're especially favored by flat terrain, 550 ft. mast in downtown Toledo, absence of tall buildings. Reception has been possible without aerials within mile of transmitter, and good signals have been reported thus far from Lima, 70 miles and Detroit, 60 miles." A couple of additional points of interest are the fact that Storer also owned WJBK-tv (2) in Detroit. Surprisingly, Toledo got on the air first. Also, the Detroit station had been assigned the call WTVD-tv but had applied for and was granted a change to WJBK-tv before operations started in October of 1948. Storer was a frontrunner in group ownership, but sold many of the tv stations in 1987; among them WJBK and WSPD. The new owner was immediately forced to sell WSPD due to signal overlap with WJBK which had been grandfathered in as long as Storer kept both properties. At that time the Toledo call was changed to the current WTVG.

**WHAT IF...?:** In re-reading the feature on Seattle stations it occurred to me that if channel 16 had been activated as planned in Everett, WA; the market would have had both KING and KONG tv's! Is that coincidence or just plain monkey business?

Readers' Reports, RITIOIE, and Some TV News

Supplying lots of news from the South is Keith Pugh who mentions WHVK 93.3 Tullahoma TN, formerly WKQD: "The owners of WZYP 104.3 Athens AL recently bought WKQD. Not long ago WKQD switched from a rock to a classic rock format. Apparently, the op format was more of a threat to WZYP's ratings. Therefore, WZYP buys WKQD, buries the op format, and installs a country format to compete against WDRM 102.1 Decatur, 'Country 102'. Being No. 2, WZYP may now have a chance at the top spot again. . . While WHVK is country formatted, they also play some pop-rock songs from such artists as Bob Seegar, Phil Collins, Bruce Springsteen, the Eagles, the Mamas and Papas and Sugarloaf. They play at least four songs of this type an hour." He sent along the letters page from the "Huntsville Times," in which several people mentioned their annoyance at WZYP taking over WHVK. If DXers tuned in during a three day period in March they might have been confused, since on 93.3 was heard a tape loop of construction workers breaking glass, hammering, bulldozing and exploding dynamite. "I hope we have a good E-skip season nearing. Looks like I'm going to send complaint letters to WLRH \*89.3 Huntsville and WDRM. . . Do stations ever check their equipment any more? WLRH has spurs on 88.3, 88.5, 89.9 and 90.3. WDRM is spurring on 101.8 and 102.4. It's been going on too long and I don't think the spurs will go away without a little push!" [Let us know if your complaining helps you clean up the FM dial; if it does, it might encourage other DXers to try to get action to eliminate annoying "recapitulations" of local stations across the dial. Some of those false signals, however, are the result of the receiver blending in the signals of two or more stations. The engineers call it RITIOIE, or "receiver induced third order interference effects." Before you get engineers at the stations too mad at you, try to determine if you are experiencing the joys of RITIOIE or if you honestly believe the stations are at fault—b.e.]

Gus Mancuso got his FM Atlas OK but says WHLX (Ohio) 105.5 missing from listing by frequency. It's not; the station is in WV with its city of license, not OH. The WV map should be shifted 2.54 cm to the right so that Elkins WV won't be in two confusing places, Gus says. But then that would push the DE coast too close to the edge. Maybe the lower of the two Elkins will go! Similarly, he wants MO moved more to the top of the page so there won't need to be an insert map for SE MO, but that would be too far for up the page for the printer to handle, and it's not good to reduce the size of a state map with more and more stations coming on the air. He'd like AZ shifted to its side to eliminate another insert map, but unlike other atlas makers, I like all maps to face the same way, so you don't have to twist your head at a 90° angle. "I noticed national radio quiet zone [in VA and WV]. What are special requirements? Power

and tower heights seem same as anywhere else. I see no indication of many stations being directional. I don't get it." [Some stations may be directional, but that fact may not appear on the FCC datalists, while still others may have transmitters just outside the zone. Others may have waivers, or have been grandfathered in before the zone was created around 1961; if anyone else has info on that subject, write in.] Gus goes on to ask about the minimum spacing charts at 6 kw, and yes the distances have increased from something like 65 miles co-channel to 71 miles. You can buy my new FCCcharts with sliding scales to compute coverages, as well as a sheet explaining all the FM station classes and distance separations, one from another, for \$2 from "FM Atlas" at the above address. Also, my FMedia! newsletter is still being published, and that is \$25/year to subscribe to by DXers. This column only presents a small part of what appears in the other publication. This column is exclusively devoted to DXing, the changes along the FM dial which will help identify new DX catches, as well as a smattering of information on new technology or practices that might help you improve your DXing—b.e.] "In 11-90 VUD (off air column) you printed my statement, 'Was. . . surprised to see so many . . . off air.' But it's impossible to tell what or where I was talking about, since you didn't say where I was. It's just sitting there like a UFO." Gus promises to be scanning from atop a mountain in Grantsville MD, "200 stations or bust."

Ronald Purdue mentioned four applications for 105.3C2 in Stewartville, near Rochester MN. A hearing will start May 6 at the FCC. He noticed an apparent error in the FM Atlas—KWWK Rochester MN is listed as 96.5, but it's still on 96.7. "I doubt that they'll ever move to 96.5." However, they just got a modification of their CP, so perhaps they'll soon move. KQYB 98.3 Spring Grove MN, now stereo, has gone 100% country, dropping the rock they used to have, and KQLW 102.5 Wabasha has "frequent transmitter problems. One night I could hardly pick them up and they were running only 10 watts or so."

Another newsletter editor, Gloria Pitzer, St. Clair MI, replied to my offer to buy her former IBM Composer (as a spare): "I wish I had your letter before I threw it out about a year ago. It was an IBM Electronic Composer."

Plugola department: Mr. Radio's Creative Productions offers airchecks of stations you weren't able to DX, including such notables as Y-100, X-100, Z-100, B-94, Eagle 106, 96-Tics, Power Pig, Fly-92, K-101, 99-X, B-100, and Q-102. You can get his catalog at PO Box 3494, Daytona Beach FL 32118-0494.

Mar. 23 was quite an ice storm, and it took all the Duluth FM stations off the air, because the WDIO (TV-10) tower crashed down, minutes after the last engineer left the building about 1:30 a.m. CST. It missed the building, falling in a semi-circle around the structure. WDIO was off the air 10 days, but its local

FCC—FM

news was carried on \*WDSE (8), with WDSE public-service spots instead of WDIO ads. The ads were carried on WIRT (TV-13) Hibbing MN, along with misleading "WDIO/WIRT" station IDs—misleading because only WIRT was on the air. Now WDIO is on the air at lower power with a temporary antenna on the WDSE tower. The falling tower took down power lines on the antenna hill, forcing all the stations to go off the air. KUWS \*91.3 Superior WI had been on the air from the Duluth hill with a new antenna and was also knocked off the air, but quickly returned, using its old transmitter and antenna on the campus in Superior. Mar. 24 KBJR (TV-6) with tower in Duluth MN left the air for over 24 hours, as a chunk of ice fell off the tower and broke the transmission line and a satellite dish. I managed some new FM DX during that period, even though reception conditions were virtually nil. It was like the old days—having the FM (and TV) dials devoid of locals! I'm sure virtually any part of the country can have outages like that, and if your home power stays on, you can feast on DX without locals! Watch for such occurrences. One of the people interviewed on the air during the storm was from NC, and he reported how icing took stations there off the air.

Many DXers have been getting auroral reception, including some skip. The outbreak of Mar. 24 was seen as far south as Tennessee, with Tom Bryant sending a story about that. I got Calgary again, the nonverifying CKUA station on 93.7, and sent a letter to their board chairman complaining about their nonverifying practice. Tom got this logo from WAMB-FM1, the nighttime-only



FM station in a Nashville suburb. It is said to be the only thing in print with the FM mentioned on it. "I asked if this temporary setup might be a prelude to a fulltime FM operation; and all I got was a good-natured chuckle." Tom didn't get any aurora DX, even though he checked the TV and FM dials thoroughly. "Am planning to attend the convention in Dunkirk in August; hope you'll be there, too." [Yes, I expect to be there, and look forward to meeting Tom and others in the WTFDA. Tom inquired and found out the current "FM Atlas" costs \$12 with postage. I have neglected to mention that recently—so there's the scoop. That's the book which will be current during this skip season, and probably the summer and fall tropo season, since it is a late 1990 edition—b.e.]

DXers aren't likely to be able to pick up emanations of a new SCA gimmick Karl Zuk mentioned in a letter, along with an ad. It's the Music 4<sup>®</sup> SCA system, which provides four 5 kHz or 10 kHz channels on one 67 or 92 kHz subcarrier. This is what WRTI Philadelphia is running on one of their SCAs, and it sounds like "4X" with an ordinary adapter. Lyle Henry, c.e. of KUSC in L.A. says he is able to decode the Music 4<sup>®</sup> on an Icom

receiver, tuning below 100 kHz, when the Icom's input is fed from another receiver having a MPX out jack. Karl noticed sharetimers WFDU/WNYU \*89.1 in the NYC area off the air for a couple of days. "Both seem to be having transmitting difficulties," permitting Karl to get WWFM Trenton NJ. I wonder if those two were just taking a spring vacation?

Barry Garten isn't having much luck hearing a proper ID for WHJX 101.5 Brunswick GA, saying he had to listen three hours before hearing "Brunswick" mentioned, and then it was not in a regular hourly ID.

"Greetings from Nigeria," writes Ayodele O. Adewakun, coordinator of the VOA Club at Box 1800, Akure, Ondo State, Nigeria. He's been flipping through the VUD and found this column of interest. He says that "we have not really gone deep in TV and FM DXing. This I do at my leisure." He plans to travel in the U.S. and would like to meet DXers, possibly this July. I might suggest he try to visit when various radio clubs have their conventions, such as ours in Dunkirk NY in early August (when it most likely will take place).

Former member Mike Dorner tells me that KTPB \*88.7 Kilgore TX is on the air with a public radio format, but I'd like to know if KTPB has stereo and what its music generally is. "The Argentine DX club has fine coverage of FM, and is Grupo Radioescucha Platense, Casilla de Correo 465-1900 La Plata, Argentina. The publication is Conexion, and they have a fine bulletin. In 1989 the subscription was \$8 in U.S. dollars. It's not just FM, but the FM material is fairly complete and ongoing. For example, the March 1989 issue covered Stereo Azul, Uruguay's oldest FM station. My translation follows:

"CXD270 Radio station Azul transmits on 101.9 mhz from 7 a.m. to 1 a.m. Uruguayan time. The ERP is 100 kw, employing a Harris 25 kw transmitter and a Sparta 2.5 kw auxiliary (which permits it to attain 12 kw ERP). Its six-bay antenna is circularly polarized and is installed 130 meters atop the building Cordon Towers in which its studios are. Its secondary signal reaches out 200 km (and is considered a Class A station). CXD270 is a commercial station affiliated with ANDEBU (National Association of Uruguayan Broadcasters). From its beginning it has distinguished itself by its excellent stereo and low and high frequency response. The station broadcasts only one period of spoken word, a news program, in the morning. Basically the programming consists of Latin American music and songs in Spanish and Portuguese. At noon it broadcasts instrumental music, while in the afternoon romantic music in English. Another outstanding accomplishment is that of having been the first Uruguayan FM to broadcast compact discs. . . The station responds graciously to reception reports, which should be directed to the managers, with QSL cards, decals, and pennants." Mike says the issue is all in Spanish, but "any DXer who was serious about Spanish in high school or college, and has a good bilingual dictionary shouldn't have any trouble reading it and translating the technical terms such as 'Potencia efectiva radiada'."

"I've been with the WTFDA for 20 or so years," says Ken Onyschuk, "and I'd really like to know why DX catches are printed as Es, tropo and auroral?" He's mostly a long-time AM DXer, with only groundwave



WI Black River Falls WWIS-FM 89.7, mr, AM-FM simulcast  
 WI Tomah WZFR 94.5, still "The Breeze," and seeking Class C3 status; soon to go 24 hours  
 PD Montreal CISM \*89.3, p, some hits, but also some classical, jazz; French: "La radio des étudiants de l'Université de Montréal" (not strict)  
 BAHAMAS Nassau "104.5," operated by ZNS-AM "Radio New Providence," "We run about 10,000 watts"; relays ZNS-1 after midnight. Monophonic  
 GA Brunswick-Jacksonville FL WIOI-FM 100.7, nt, remove stereo listing; being leased by WOKV 600 Jacksonville FL  
 TX McKinney KSSA-FM 106.9, back to mono, and with Tejano programming at night. "Coverage now is much poorer than the old 95.3. It also suffers interference from KTLR and even KYOT at times. Reception in my car is terrible."

**Format Changes**

Formats are the same as in the "FM Atlas"

AL Vernon WJEC 106.5 mr  
 AL Reform WTID 101.7 op  
 AL Winfield WKXM-FM 105.9 o, SMN Pure  
 AK Fairbanks KXLR 95.9 op, SMN Classic Rock, to 25000 h.v (2 m), C3  
 AZ Bullhead City KFLG-FM 102.7 k  
 AZ Douglas KDAP-FM 96.5 k  
 AR Augusta KAKB 97.7 k, but temporarily silent  
 CA Freedom KPIG 107.5 r  
 CA Oakhurst KAAT 107.1 rm, Unis. 41  
 CA San Jacinto KWPR 96.1 mr, soft AC  
 CA Santa Ana KWIZ-FM 96.7 o, Korean; at night simulcasts KAZN AM 1300 Pasadena CA. "Radio Korea" nonID.  
 CA Teft KMYX-FM 103.9 k, "Thunder 104"  
 CO Security KBZE 105.5 k  
 DE Williamson WSTW 93.7 rs  
 FL Arcadia WXKT 98.3 r  
 FL Jacksonville WNCM \*88.1 gr, "not a rock station, but contemporary Christian"  
 WJCT-FM \*89.9, no rock  
 FL Key West WDOZ 88.7 op, \$; "I have heard only one commercial on this station in several weeks" listening. Key West has too many rock stations—it's a strange market."  
 FL Marathon WGMX 94.3 mr, Unis. 41, "Mix something"  
 FL Mexico Beach WEBZ 99.3 b, "EZ 99"  
 GA Clayton WGXJ 104.1 mr, "soft AC"  
 GA Jackson WJGA 92.1 ks, country mornings, light rock afternoons, urban evenings  
 GA St. Simons Island WMGO-FM 92.7 rm, Unis. 41 [from "The Breeze"]  
 HI Hilo KIPA-FM 100.3 r, getting away/  
 ID Caldwell KTSY \*89.5 gr  
 IL Chicago WYTT 94.7 ar, toying with various IDs; was briefly "Hell," which "came off as being stupid and in poor taste." Now "Chicago's Hot 94.7." Operations Manager Ron Lippincott found the gimmick "uncomfortable," and added, "I think it shows better judgment to move on to something that's positive, uplifting and fun—what radio should

**Deletions**

CA Goshen KYIA \*90.1  
 FL Marathon WFFF 97.7  
 IL Peoria WECU \*88.5, WBNH \*88.5 Pekin uses the frequency 24 hours a day. "WECU is now history."  
 MN Ortonville KBAA 106.3  
 MT Great Falls K296DH 107.1 the cause of new grant on 107.3)



be."  
 WBYR 103.5 rp, changing ownership for "the third time," and may again go to oldies. Warren Schulz, long-time chief engineer, tells me he's now at WYTT. FM market prices on the way down in Chi-town? WBYR applies to be sold to Major Broadcasting for \$1.9 million (Major is involved in ownership of KBER 101.1 Ogden UT, KXBR 93.5 Greenfield MO, KRLB 98.5 Los Alamos NM). Compare that price with Minnesota Public Radio's paying \$12 million for WLOL 99.5 Minneapolis. A call's change is expected for WBYR. Its ADR has an emphasis on current music, in contrast with most other ADR stations' reliance on old cuts.  
 IL Woodstock WAIT-FM 105.5 op, SMN classic rock  
 IN Fort Wayne WJLT 101.7 o; was "Louis 101" for a while, playing various versions of "Louis, Louis" 24 hours  
 KS Kingman KTCM 100.3 gr  
 KY Elizabethtown WKUE \*90.9 cn  
 KY Georgetown WTKT 103.1 o, "O'dies 103" (killing "Cat 103 FM")  
 KY Jeffersontown WLSY-FM 101.7 remove \$, format, as it is silent, joining its unbuilT AM on 680 in Newburg KY in never-never land  
 KY Whitesburg WKKO 103.9 k, "K-104" (from "Q-104")  
 LA New Orleans WRNO-FM 98.5 p, Z-Rock  
 MD Grasonville WBEY 103.1 r, applies for WHVY calls, now in use by one of Baltimore's \*96.7 share-time stations  
 MI Manistee WRRK 97.7 r, "hot AC"  
 MN Mankato KMSU \*89.7 jc, going 24 hours and adding all night lite jazz  
 MS Clarksdale WAID 106.3 o, Drake  
 MS Lexington WAGR-FM 102.5 k  
 NV Sparks KKMR 100.9 r, "earwash"  
 NM Espanola KIOT 102.3 mr, "world music," "Coyote"  
 NC Edenton WBXB 100.1 g  
 NC Mantaw WVOD 99.1 r  
 NC Murphy WCNG 102.7 rm  
 NC Williamston WHITE 103.7 gr  
 ND Grand Forks KNDX-FM 94.7 o, Kool 94.7 FM (strict—from "Light Rock 95")  
 OH Gilsbarn WRED 95.7 k, leased by WTOD 1560 Toledo, from whose non-co-owned studios it is programmed  
 OH Millford WRBZ 107.1 j [jazz]  
 OR Brownsville KGAL-FM 102.3 o, relaying AM in Lebanon, which is the reason KYTE, "K1te FM," Newport moved from 102.5 to 102.7  
 OR Cave Junction KCNA 102.7 o  
 OR Medford KBDY 95.7 r  
 OR Tri City KTRQ 104.3 k, monophonic  
 PA Philadelphia WXPX \*88.5 pt, virtually eliminating jazz. "Their new facilities at 88.5 are working quite nicely."  
 PA Sharpsville WAXF 95.9 k  
 SC St. George WKQB 107.5 rm, parallel to WSUY 100.7 Charleston until WKQB is sold, which is expected in April. WSUY assumed to



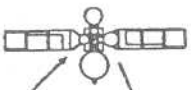
NM Eunice KPCE 100.9  
 NM Santa Rosa KHWY 95.9  
 NY Yorkshire WYEF \*91.9  
 OR Eugene K272CL (because of new Brownsville station)  
 PA Philadelphia WPWT \*91.7, bought out by former share-timer WKDU, which then turned in the WPWT license; WKDU now full-time  
 PA Richland W214AL \*90.7—this is the same translator as W214AL \*90.7 Denver PA, just a different beam with the same call numbers  
 PA Telford WBMR \*91.7, "unknown to Bell of PA, either via the call letters or the company name you provided, and the phone number dials into a computer."  
 TX Carrizo Springs KQMG 93.5  
 TX Denton K228BU 93.5; CP never activated

be stereo. Was silent for a while.  
 TN Tullahoma WKQD 93.3 op  
 TX Beville KYTX 97.9 o, still "Y-98," ID with Corpus Christi  
 TX Belton KYZZ 106.3 r  
 TX Dallas KKDA-FM 104.5 sj, with jazz being found in some of KLRX (97.9) and KMEZ (107.5) programming. Jazz is one element which stations normally playing vocals use to "break up the monotony." KLRX claims its format is "patented," developed after interviewing 600 listeners. Promos include: "No bathroom humor, no silly DJ chatter, no contests, no talking over the music, and we'll tell you what we play."  
 TX Eastland KEAS-FM 97.7 r; on 2-9-91 high school girls were announcing, and no ID was heard on or near the 5 p.m. hour, as FCC rules require.  
 TX Floresville KWCB 94.3 k [strict]  
 TX Harker Heights KLFK 105.5 o, "The Fox"/TX Lamesa KIOL 100.3 m, "K-Lite" [strict]; dropping Odessa-Big Spring from ID list  
 TX Los Ybanes ("Los ae-BAH-nose," with a population of 249 just SE of Lamesa, with transmitter west of Lamesa) KYMI 107.9 m, l, "an odd mix of b, k, m and r format vocals and instruments. Tejano programming from 5 p.m. to 9 p.m. sign off. Carries Lamesa High School sports; ID with Lamesa."  
 TX Midland KCRS-FM 103.3 k, IDs with calls, not "K-103"  
 TX Monahans KMGF 102.1 r, rubs out "Magic 102.1," ID with Midland...  
 TX Portland KCGR 105.5 op, SMN  
 TX San Angelo KELI 98.7 mr, still "K-Lite"  
 TX San Antonio KZVE 107.5 Spanish, l ("Tejano 107"); Tejano music migrates from its AM, while the former Spanish language AC format goes to the AM  
 TX Weatherford KYQX \*89.5 jr, still mono  
 VA Exmore WPHG 106.1 r  
 VA Norfolk WNVZ 104.5 s  
 VA Windsor WXRI 107.7 g  
 WA Cheney KEYF-FM 101.1 o, "O'dies 101" (loses "The Key") [to, from "I-94"]  
 ON Windsor CKMR 93.9 o, "More 94" (back/  
 PG Trois Rivières CHEY 94.7 m, \$

**On Air (Selected)**

KS Girard KYPG 99.1, having moved from 101.1 MD Frederick WJTM \*88.1  
 MA West Yarmouth WJIB 94.9 (and AM) bought by Boston car dealer Ernie Boch for \$825,000; signed approved by U.S. bankruptcy judge. Owners Ken Patch and Charles Dunn "took an immense bath on their investment; they reportedly paid \$4.7 million for the stations in 1985."  
 MS Yazoo City WAFZ-FM 93.7  
 PA Glen Mills WZZE \*97.3  
 PA Muncy WHTO 103.9—things got a big warm for "WHOT" when a fire destroyed 1-year old studios. They're back on, courtesy of WFFF-FM 98.3 S. Williamsport, which donated an office for them to use as a studio. Also destroyed: an adjacent video store. WFFF was flooded during Hurricane Agnes in 1972.  
 TX Odessa K280CX 103.9; a CP never activated  
 TX Shamrock KJJI 92.7  
 WI Watertown WBII \*91.5  
 FM mistakes, FMedia! March, and FM Atlas-13  
 AL Atmore WYDH (new) frequency of 105.9 not given, p. 1  
 AL Decatur WRSA 96.9 town misspelled, p. 162  
 AL Dothan WDOF-FM 99.7 out of sequence, p. 101 [p. 187]  
 AL Florence WQLT 107.3, town misspelled, AZ Punkin Center 95.9 is K240BD, not "K249-73ily B... E."

**SATELLITE NEWS**



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

It's transponder and Satellite Musical Chair time again. It's also a time for taps and an announcement of a birth. Taps for Satcom 5 (Alascom - Aurora) which died somewhat prematurely causing bedlam on other birds - more later.... The announced birth comes with Canada's Anik E-2 which was successfully launched from French Guiana on April 4 with it's 50 watt Ku transponders (32 of them) and 24 C-band transponders. This should be testing by the time you read this and in service by June.

With the failure of Satcom 5 - all of its services were moved to C-1 (the old location of F1). All SCPC radio services on C-1 remain as well as NBC feed which is now on XPDR 17. All else has been moved to F2, F1 and T3.

Family Channel - West from C1-1 to F1-14  
 KUSA Denver from C1-2 to F2-1  
 KCNC Denver from C1-4 to F2-22  
 KMGH Denver from C1-6 to F2-3  
 KRMA/etc. from C1-12 to F2-18  
 KWGN Denver from C1-14 to F2-17  
 WGN Chicago C1-20 to original feed on G1-3  
 Pacific Sports from C1-5 to Telstar 3-19 also Cal-Span and others.....  
 Prime Ticket from C1-7 to T3-13  
 Sports Channel LA from C1-9 to F3-12  
 Home Sports Entertainment from C1-10 to T3-24  
 Sun Network from C1-11 to T3-??? is moving around was on XPDR 8 and now changing again  
 Prime Sports NorthWest from C1-22 to T3-22  
 Prime Network from C1-24 to T3-17  
 Calspan sometimes noted on T3-24  
 PLEASE NOTE THAT ALL OF THESE SERVICES WILL REVERT TO C1 WHEN NEW ALASCOM/Aurora BIRD IS LAUNCHED IN LATE SPRING OR EARLY SUMMER.

The Comedy Channel on G1-1 and Ha TV - Ge-23 are now merged into the Comedy Network. Eventually the G1-1 feed will be for the East coast and the G3-23 feed will be a West coast feed.  
 Shop At Home is now using the ESPN backup channel G1-6 on an occasional basis in addition to their Satcom 4 feeds

The CNN feed on Galaxy 2 XPDR 1 is the feed on CNN International

NHK - Tokyo, Japan is regularly using XPDR 1 on PanAm Sat Ku. Yellow color bars also noted on XPDR 24 C-band on the same bird.

Encore - a new premium movie service is noted in VC2 on Satcom 1 XPDR 16.

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

'73's  
*Orange*

# EASTERN TV-DX

Bill Nienajedly  
PO Box 2999  
Clifton NJ 07015-2999  
201-478-3044 no collect

May 1991 Cut off 3 Months from deadline deadline June 5 1991

Outstanding Gulf tropo! Many stations in the 600-800 mile range and one at 980 miles were logged by John Combs on March 5th & 6th. And a E-Skip opening on Feb 23 had John logging among others, KIII-3-TX: Only 11 days after, he had KIII by tropo! And it wasn't spring time yet!

To those who haven't really experienced E-Skip yet, This is the month for it and here is a little hint: Check real often around Memorial Day & Good Luck! On to DX!

John F. Combs N4SFS, P.O. Box 7581, Tallahassee FL 32314 (904) 878-6317

FEbruary 1991	MARCh 1991	MARCh 1991
23 Es 1722 unIDs-2 Mexico	5 Tr 2337 KHSH-67 TX 673	6 Tr 0350 KTBC-7 ? TX T
1819 KMDI-2 TX 1067	2339 KLTJ-22 TX 825	0356 KIII-3 TX 825
1858 KDTN-2 ? TX T	2340 KVHP-29 LA 533	(previously by Es--
1858 KKTO-2 NM 1334	2343 WVLA-33 LA 417	Just 11 days ago!)
1904 KHAS-5 NE 1058	2346 KVDA-60 TX 852	0404 XHPNT-46 CL 981
1907 KSNB-4 NE 1015	2351 KWEX-41 TX 852	(ECO // 25)
1926 KENW-3 NM 1152	6 Tr 0003 WBRZ-2 LA 413	0410-0727 Zzzzzzzzz...
2000 KLNK-3 NE 1093	0005 KMBH-60 TX 874	0727-0800 Brief scan
2029 KACV-2 TX 1070	0005 KVEO-23 TX 875	b4 work: Houston U's
2036 KIII-3 TX 825	0007 KLRU-18? TX T	solid; 18/24/29 LA;
MARCh 1991	0125 KHAB-7 TA 863	KMBH-60/KWEX-41 gd +
1 Tr 1845 W14AW FL 194	0128 WXTA-11 GA 229	these newsies:
Largo (School Board)	0131 KLDQ-27 TX 940	0729 WTOK-11 MS 292
5 Tr 0625 Ft. Pierce/WPB U's	(Local off---yay!)	0730 WTVI-42 NC 385
2327 KETH-14 TX 673	0144 X---25 TA?	0734 WJZY-46 NC 384
2327 KLTN-18 LA 520	0151 KVUE-24 TX 805	0744 KEDT-15 TX 823
2327 WMAH-19 MS 279	0153 WIGAJ FL 273	1218 Brief ck during
2329 KLPB-24 LA 484	Melbourne (WESH-2)	lunch: Houston area
2329 WXXV-25 MS 286	0154 KAVU-25 TX 745	U's still in!!
2329 WGN0-26 LA 340	0156 KBVO-42? TX T	7 Tr 0043 Miami U's 393
2329 KRIV-26 TX 673	0210 KXAN-36 TX 805	0043 W16AR PL 330
2331 KITU-34 TX 574	0231 KLUJ-44 TX 869	Stuart (LPTV)
2331 WNOL-38 LA 340	0235 KBMT-12 TX 573	0631 Most S. FL U's
2331 KHTV-39 TX 673	0306 KHOU-11 TX 673	12 Tr 0633 WGN0-26 LA 340
2332 KXLN-45 TX 673	0328 KPRC-2 TX 673	0633 WNOL-38 LA 340
2333 KTMD-48 TX 658	0329 KABB-29 TX 840	0658 KVEO-23 TX 875
		14 Tr 0040 WGN0-26/WNOL-38
		0034 KVEO-23 TX 875
		0034 KMBH-60 TX 874

- 1 Finally pulled this through WABW-14; I'd often seen CCI from it, but had never been able to get a definite ID.
- 2 How'd this get in here? Swung antenna around to find Atlanta U's in also!
- 3 SS flick, into ECO at 0200. Sometimes repeats XEW also. Carlton has logged this many times, and we believe it to be somewhere in Tamaulipas. There is a 25+ allocated to San Fernando, but it looks like such a tiny patch on the map that it seems strange Mexican authorities would put any high-powered station here, let alone on UHF!
- 4 Again, a strange logging amidst all the TX!
- 5 NBC mix w/Mexican. Since the only other NBC-25 possibilities are MD or IL, I feel rather safe counting this, hi.
- 6 This and WTVI show that the opening had moved east. Wonder if NC-to-TX Tr was possible this morning?

LOCATION: On the eastern outskirts of Tallahassee, about 220' ASL (avg. elevation around here is 150')

EQUIPMENT: 4-bay UHF antenna mounted on 3rd floor fire escape, about 30' AG; Winegard AC-4990 UHF preamp; small all-channel "motor home" type antenna (used for VHF) on tripod on 2nd floor balcony, about 22' AG; bargain basement coax; Teknika TVC-22 component tuner; Sears 9" black-and-white TV; Sears 5" black-and-white TV; Commodore color monitor.

A nice off-season skip opening and some great Gulf tropo enlivened an otherwise dull reporting period. I snuck the 4-bay up onto the fire escape and for weeks nobody noticed. Then one day the manager paid a visit and asked what "all those wires" leading to my apartment were! I hemmed and hawed and mumbled something about Ham Radio (the nice thing is that, since I really am a ham, I wasn't fibbing!) rather than try to explain TV-DX. To my delight (and surprise) she said "No problem!" Between the 4-bay and various other antennas for FM, scanner, 2-meters, SW, etc., I think I've pressed my luck as far as I dare take it right now! Totals have shot up to 211 stations logged.

Christopher Dunne 21541 N.W. 8 CT. Box 81 Pembroke Pines FL 33029  
Equipment: Archer FM Antenna, Sony 9" Trinitron, Teknika tuner, UHF bowtie

March 1991  
18 Tr 2200 CUBA 9 & 13, had speech by Fidel, over one hour long. Zzzzzzzz  
19 Tr 2300 Tampa & Ft. Meyers 8,13,20, 28, 30, 44 all like locals!  
20 Tr 0039 KEITH 14 TX Houston, TBN, looked like (713) # on the screen, seen in color in '89

## EASTERN TV DX

MAY 1991

Christopher Dunne continued

March 1991  
20 Tr 0039 KEITH t, Would be 900 miles if KEITH, Also severe 'HASH' on 13 (Fidel?-BN)  
Plus W62 // WDMV 32  
22 Tr CUBA 9 & 13, color!

My Radio Shack FM antenna is now installed, and it works wonders for VHF as well- so well that I will not report 9 & 13 Cuba after this report... too common.

Jeff Wolf 1131 University Blvd W Apt 701 Silver Spring, MD 20902

(What equipment do you use?-BN)

March 1991  
22 Tr 0108 WGAL 8 PA  
23 Tr 1706 WAAP 16 NC 251  
1755 WXII 12 NCctci  
WSET 13 VAtcci  
1908 WUNP 36 NC 195  
WCNC 36 NCctci  
1914 WYED 17 NC 248  
23 Tr 1921 WPTF 28 NC 248  
1927 WKFT 40 NC 265  
1935 VA 29 vg+  
1938 WHLJ 41 VA  
1940 WJZY 46 NC  
WNRW 45 NC t cci  
2117 WKFT,WYED,WPTF in gd  
23 Tr 2154 WAAP in gd  
2320 WTVI 11 NC 246  
24 Tr 0000 WUNP 36 NC  
w/NCPET 3/4 cb  
0653 W25AA VA t  
0917-WTXF 29 PA  
1007-WGAL 8 PA

From the Editor: Station News\*\*\*\* Word has it that a LPTV on channel 7 in Philadelphia is on.

Michael Reid 1408-65 Spring Garden Ave. North York ON M2N 6H9 CANADA

No Toronto DX since my last report. I have been at Ponte Verda Beach in Florida (near Jacksonville-see cover of Feb VUD) for a while, with no DX equipment either. On March 6 at 0630 I noticed a zero beat to WUFT-5 on its channel on cable. During a pause in WUFT's video, I could see a 3/4 cb with the calls 'KRGB' in the zero beat. Later local ads and ABC programming could be seen. WUFT was unwatchable for about one hour, and around 0745 it was almost wiped out by KGRV. The CCI in was present to 1130. This was obviously tropo. (Oh Yes, a real doozy!-BN) John Combs told me there was a big Gulf opening that morning.

In the Dec. VUD, I referred to KBSI-23 as one of my top five tropo catches, this should be UHF tropo catches. I've been Dxing for so long, I'm starting to think only in those terms. I commented about an UNID 35 VJN (Video Jukebox Network-BN) that Bill Hepburn got. Fred Nordquist's report in the Jan. VUD suggests this was W35AQ, Syracuse, As I thought. I also said that WSNR-43 is no longer with VJN-not true. VJN has a new style menu, I wasn't aware of. I have heard that W66BV, Detroit, is now with TBN.

According to the CE of WSMH-66, my unid-66 of Sept. 4 at 2200 was not WSMH or W66BV. It was not WETG. I think this is the same station I saw Sept. 2 at 0300.

My logging of WBRA-15 on Sept.4 is not so. They didn't confirm my ID slide. I thought there was a choice between WBRA and WKPC. Only WBRA ran what I saw. Then I discovered WKOP, Knoxville who had the same show as WBRA and confirmed the ID slide I saw as theirs. 73's Mike Reid

(Thanx for the updates, Mike-BN)

That Dude from Joisey PO Box 2999 Clifton NJ 07015-2999

April 1991

16 Tr 0600+ Joe Fela called me with a DX tip, he was getting NC and other goodies. No NC here but I did get new WHRO 15 VA 310 and snow free for a short time! Also had relogs TO WNVZ-33-VA 307, WGNV-27-VA 310, plus WBCC-16-MD-180 was also s/f. Later I noticed educational on 22 & 28, I assumed this was the Maryland Public TV (MPT) network. Im pretty sure this was not NCTV as it was too steady for 500 mile DX. I turned the antenna around to check New England and saw Boston was fair on ch 56 and other stuff was so-so to that area. The Norfolk area was nice to get this early in the season, one thing for sure though, I know that trop that the guys get down in Florida (800 mile DX) likely never will happen here in the North East but-I'm happy with my so so 300 mile DX hi! Get ready for E-Skip this month! BN

ED NOTES: Just a couple of more tips regarding E-Skip for those new to DXing above 30 MHz. Like I said earlier, Memorial Day is when 'things start happening', it might be a couple of days before or after but mainly it is the general time to start looking for E-Skip.

Though it is a good idea to use an outdoor antenna for E-skip, it is not requirement however. In the past I have seen Florida, Kansas, Iowa and many other states on E-Skip just using a regular 'whip' antenna on my portable TV. Use my Special report in the Dec. VUD about E-Skip and just keep checking channels 2-6 in the morning and again in the late afternoons/early evening, good luck to all!

BN

# WESTERN TV-DX

May 1991

Fred McCormack  
Box 17860  
St. Paul MN 55117-7860

Deadline: 06-06-91  
Cut-off: 03-01-91

Trans-Gulf tropo was noted in March by Dyer in Texas and Kruszka in Louisiana. Parks saw Oklahoma UHF from Wisconsin in February. Dyer reported a good February for E skip and Parks and Cherry observed some of the effects of auroral disturbances.

New \_\_\_ New Mode\_ \_ Tent. - t Unidentified - unid S/On - + S/off - =  
ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &  
Parallel Programming - // MTS Stereo - \$

Michael Parks, Route 1, Box 103, Amery WI 54001

CST

### Equipment:

Channel Master 1110 Quantum with Channel Master 0064C preamplifier and RG-11U at 28', Antennacraft P-7 with Winegard PA-4975 preamplifier and RG-11U at 33', Alliance HD-73 rotor, Winegard DA-8150 post-amplifier, Channel Master 7206 HI "Q" trap, and Zenith Z1920W 19" color TV.

<b>January 1991</b>	7 tr 2304 @WSCO 14 WI 191	8 tr 0124 KAUT 43 OK 731
12 tr 1900 KZKC 62 MO 451	2309 KSHB 41 MO 453	0135 WMBD 31 IL 357
	KZKC 62 MO 451	0140 WHSL 46(MO) 493
1901 KCPT 19 MO 451	KYFC 50 MO 455	0142 KNLJ 25 MO 463
	2310 KTKA 49 KS 478	KNLC 24 MO 495
1904 KSNF 16 MO 587	2356 KCPT 19 MO 451	0146 W67CH 67 WI 123
1908 KWHB 47 OK 672	2358 K39AS 39 IA 232	(La Crosse w/KOLN-10)
1911 KSNT 27 KS 471	(Marshalltown CHA)	(Normal KTTC-10)
KTKA 49 KS 478	8 tr 0005 KHBS 40(OK) 725	K74CZ 74 MN 101
	KPOM 24 AR 677	(Winona w/KOLN-10)
1912 KMCI 38 KS 473	0015 K55FL 55 IA 199	(Normal KTTC-10)
2000 KTAJ 16 MO 416	(Spencer KMEG-14)	KOLR 10 MO 567
2200 KHBS 40(OK) 725	0016 KSPR 33 MO 567	0150 WOTO 35 IL 331
2300 KSPR 33 MO 567	0037 KETV 7 NE 340	0206 K40CO 40 IA 232
2342 KDEB 27 MO 568	0057 K40CO 40 IA 232	(Storm Lake w/KTBO-14)
KOZJt 26 MO	(Storm Lake KMEG-14)	(Normal KMEG-14)
2349 KPOM 24 AR 677	0059 KDEB 27 MO 568	0207 KMCI 38 KS 473
(State #41)	0100 KLJB 18(IL) 298	0228 K28AE 28 MN 162
13 tr 0127 KOLR 10 MO 567	KTAJ 16 MO 416	(Fairmont TBN)
	0104 KDNL 30 MO 482	( See Note # 2 )
<b>February 1991</b>	0111 @K33AC 33 NE 415	
1 Es 2235 KPRC 2 TX 1109	(Pawnee City KUON-12)	<b>March 1991</b>
7 tr 1459 KHIN 36 IA 318	0115 KSAS 24 KS 592	24 AE 2139 unid ch 3 French
1500 KPTM 42 NE 359	0117 WICS 20 IL 413	2158 CFRN 3 AB 1086
1825 WICS 20 IL 413	0119 @KUON 12 NE 362	
1930 KRWF 43 MN 169	KTBO 14 OK 732	<b>April 1991</b>
( See Note # 1 )	0120 KGMC 34 OK 733	7 tr 0157 KTIV 4 IA 276
1934 K33AB 33 LA 217	0122 K61FF 61 IA 240	(Local WCCO off)
(Sibley KSIN-27)	(Cedar Rapids TBN)	ms 0202 KARKt 4 AR
2200 WVCY 30 WI 269		

Note # 1 - Once again KRWF was experiencing the video problems it always seems to suffer during strong tropo openings. This time though, noted for the first time time, KMEG-14 audio replacing KSAX-42's. Does KRWF pick up KSAX via K14AD, Willmar, rather than microwave relay? KMEG interference to K14AD's video carrier could explain KRWF's frequent video problems.

Note # 2 - Is K28AE back on? I thought they went dark several years ago, but can find no other explanation for a channel 28 TBN on a bearing of 220 degrees. Television Factbook still lists them, but FCC microfiche no longer does which suggests they turned their license in to the FCC after going dark.

As I feared it would, pest W62BD in Minneapolis has once again hit the airwaves. They were on briefly in early January and since reappearing on February 27, they've been on almost continuously running test pattern and tone. Hope this annoying situation doesn't become like that of K02MX in San Antonio.

I believe I have an answer for Jeff Kadet regarding his seeing both WDBB-17 and WTT0-21 IDs on W62BG, Birmingham. Last February, Broadcasting magazine mentioned that WTT0-21 had reached an agreement to lease the facilities of financially troubled WDBB-17

Western TV-DX

May 1991

Michael Parks (continued) - and their satellite WNAL-44 to be used in rebroadcasting WTT0's signal. This is much the same situation as that of KTMA-23 and their leasing of KXLI-41 and KXLT-47's facilities, except that WTT0 gained broadcast rights to WDBB's stronger programming and incorporated it into their schedule, whereas KTMA simply replaced KXLI/KXLT's schedules with their own. With the soft advertising market putting many smaller UHF stations on the verge of bankruptcy, I expect we will be seeing more of these mini-networks popping up. Broadcasting has also had numerous reports of network affiliates paying an indie in their market to air rebroadcasts of their local news programs replete with commercials. If this newfound cooperation among stations becomes widespread - and there's every indication that it will - it could conceivably make it more difficult to know just what one is watching when the DX rolls in.

Can anyone confirm if KSBI-52, Oklahoma City, is on and if so, what type of programming they carry? Television Factbook states they've been on for a couple of years, but I've never seen anyone report having seen KSBI to the VUD and when I spent a night in Shawnee, Oklahoma just over a year ago there was no sign of them. Perhaps they're operating very limited hours?

73, Mike

(Mike, I believe K28AE is on with TBN. fm)

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

### Equipment:

Wards 12" b&w Model GEN11235 (1984 vintage), UHF - RCA 13" (1987) EMR350E (color). Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

<b>January 1991</b>	2 Es 0012 KGAN 2 IA 960	5 tr 2305 KLTL 18 LA 340
1 tr 0309 KLFY 10 LA 375	23 Es 1700 WCBF 2 SC 1140	2310 WSFP 30 FL 1040
28 tr 2048 WNOL 38 LA 520	1807 WDTN 2 OH 1075	2325 WLAE 32 LA 520
2055 WVLA 33 LA 440	1831 WSB 2 GA 885	2327 WPXI 15 AL 660
2207 KPLC 7 LA 340	1845 WAVE 3(IN) 955	2328 WFTS 28 FL 995
2215 KADN 15 LA 385	24 Es 1724 WFMY 2 NC 1175	2330 WTWC 40 FL 860
2249 KLMG 51 TX 290		6 tr 0529 WAFB 9 LA 445
29 tr 0005 WAFB 9 LA 445	<b>March 1991</b>	0540 WTWC 40 FL 860
	5 tr 2049 WNOL 38 LA 520	0626 KLFY 10 LA 375
	2054 WVLA 33 LA 440	20 tr 0102 KTRT 9 TX 260
<b>February 1991</b>	2204 WFLA 8 FL 995	0145 KPLC 7 LA 340
1 Es 2133 WBBM 2 IL 1055	KPLC 7 LA 340	0158 KLFY 10 LA 375
2228 WBAY 2 WI 1185	2211 WGNO 26 LA 520	0159 WAFB 9 LA 445
2305 KGAN 2 IA 960	2305 WLPB 27 LA 445	0229 KBMT 12 TX 285
2330 WDTN 2 OH 1075	KLPB 24 LA 375	
2335 WAVE 3(IN) 955		

More E skip in a few days of February than the rest of the "winter season" gave. IDs after 1900 for the February 23rd opening next to impossible as the networks quickly went to total coverage of the ground phase of the war against Iraq.

March 5/6 ducting somewhat overwhelming with deep CCI on just about all UHF channels. Lots of FM into Georgia and even South Carolina.

Bob Cooper (currently in New Zealand) is trying to locate Gordon Simkin. Any clues? 73, Pat, WA5IYX

Jeff Kruszka, 2824-E Steamship Circle, Harahan LA 70123

CST

### Equipment:

Sylvania 12" black and white, quad loop cut for channel 2, Radio Shack U-75 corner yagi. Mitsubishi HS-U31 VCR.

<b>February 1991</b>	19 tr 2217 KLTL 18 LA 170	19 tr 2319 KXLN 45 TX 319
9 tr 0829 WIZH 24 MS 167	KVHP 29 LA 181	2330 KHTV 39 TX 318
	KXAN 36 TX 454	2339 KWEX 41 TX 498
	WFTS 28 FL 499	unID channel 49
<b>March 1991</b>	2243 WBHS 50 FL 499	W46AN 46 FL 286
5 tr 2215 Houston 11, 13, 14, 20, and 22	2246 KTMD 48 TX 303	(Panama City LPTV)
2230 KTVE 10 AR 247	2254 unID channel 52	20 tr 0000 KRRT 35 TX 521
19 tr 2212 Houston 11, 13, 14 and 20	unID 49 Spanish	0003 KLRU 18 TX 454
2217 KPLC 7 LA 170	2306 KHSH 67 TX 318	"WBTR" 19 LA
KLTL 18 LA 170	2309 KVDA 60 TX 490	( See Note # 1 )
	2319 KLMG 51 TX 323	0010 to bed

<u>Jeff Kruszka (continued)</u>				25 tr 0630	WBHS 50 FL 499	25 tr 1927	WDAU 34 AL 300
				0657	WBSF 43 FL 569		2054 unID 63 religion
20 tr 0556	unID ch 49 HSC				(WOW!)	2105	WTOG 44 FL 499
	+unID 49 s/on0600			0705	WTMV 32 FL 517	2129	WFXL 31 GA 387
0600	unID channel 52			0706	to work	2200	WABW 14 GA 370
	( See Note # 2 )			1900	WJTC 44 FL 163		(GPTV ID)
0602	unID 55 religion				("C 44")	2205	W48BC 48 FL 197
0605	KETK 56 TX 336			1906	WJHG 7 FL 286		(Destin "Beach TV")
0630	KWKT 44 TX 433				WUSFT 16 FL	2215	WGJQt 43 AL
0633	KVUE 24 TX 454				(Per R. LeBlanc)		(//41 //42)
0639	KBVO 42 TX 454			1910	WSFPT 30 FL PBS	2300	WIIQ 41 AL 216
0705	to work			1917	WDHN 18 FL 303		

Note # 1 - Have previously seen this Baton Rouge station's fake ID as WKG-TV. Is it still just a xlator (W19AW) or a new fake ID?

Note # 2 - The ID on the hour was the "Keystone Independent Network." What is this???

Ron LeBlanc (of Marrero) logged 26 new stations on the night of February 8th from Ohio, Indiana, and Kentucky including WNDU-16, at approximately 845 miles. I missed out on this one, although I saw his DX video from this duct. Tropo has been sparse here, although it picked up in March and I was able to add several new ones to the log. Why do the good openings always seem to be on a work night?

(Jeff, I believe your "WBTR" on channel 19 is a fake ID for W19AW. fm)

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

PST

Equipment: See March 1991 Western TV-DX

<u>January 1991</u>	8 tr 2350	WA 19, 35, 42	25 tr 1700	24, 32, 15 still
20 tr 2134	K36BO 36 WA 70	15 F2 1318	TVNZ 45.25	MHz in - snow free
	(Deming KOMO- 4)	1419	unID 48.2453	MHz
21 tr 0745	KAPP 35 WA 213	1537	unID 49.260	MHz
22 tr 2234	Tri-Cities 25,42	23 tr 0609	KXLY 4 WA 299	
29 tr 0712	KCKA 15 WA 184		0643	KREM 2 WA 299
	(Snow free)		0647	KAYU 28 WA 302
<u>February 1991</u>		25 tr 0708	KUTF 32 OR 272	
1 au 0115	CFRnt 3 AB		0723	KNMT 24 OR 234
3 au 0200	CFAC4 3 AB 462		0753	KCKA 15 WA 184
0300	CFRN 3 AB 544			(Snow free)
0500	CKSA 3 AB 662		0817	KMTR 16 OR 329
			0823	KTVZ 21 OR 346
		<u>March 1991</u>	4 au 0457	CKKX 2 AB 438
				(ex CFAC)
			1900	CFRN 3 AB 544
			9 au 0220+	many unIDs 3, 4
			14 tr 2305	OR chs 24 and 32

F2 MUFs up to 50 MHz noted on January 23, 24, and February 15, but no TV-DX. I am now using my new ICOM 575H 6 meter transceiver to detect video sync noise as this unit will receive down to 26 MHz. It has much better sensitivity and selectivity than the Kenwood RZ-1 and finder tuning increments (0.1 Hz). I would like to build a video demodulator for this transceiver to actually watch F2 video.

I have been busy getting set up for 6 meters as well as 144 and 440 FM. Another ham is putting together a beam for me to use on 50 MHz. The bandwidth may allow some monitoring of 49 MHz TV and may even be sensitive enough for 45-48 MHz TV reception. Unfortunately, I will have to locate my 6 meter set up in a different location from both the broadcast production studio and the TV/FM/shortwave receive shack in order to minimize interference, intermod, etc. This seems to be the only way I can operate and still DX TV and FM. I have a limited area for antennas on this building so have to maximize what roof/deck areas that I do have. I have the transmit antennas located away from the FM tower and TV masts. I hope to be on 6 in time for E skip season.

Lots of aurora here with many unIDs due to poor signal stability. 73s, Mike, VE7SKA

#### NEW CHANNEL 2 HITS AIR

KJVI-2 in Jackson, Wyoming reportedly began operation on September 1, 1990 as a satellite of KPVI-6, Pocatello, Idaho. KJVI is the first new channel 2 in the United States since 1988 when both KDTN and KACV came on the air in Texas. While KJVI would appear to be an excellent E skip target, with only 190 Watts erp, it may prove to be elusive!

# NWS NEWS

#### IN THIS ISSUE:

-Bill Hepburn tells us about Canada's fast-growing weatheradio network and fills us in on the newest planned stations in Ontario!  
...and much more!!!

**MAY 1991**

Matt Sittel  
PO Box 21347  
303J Wood Hall, NCSU  
Raleigh, NC 27607  
(919) 833-1153  
...but read note below!!!  
Deadline: 6/1/91 for  
7/91 column.

Again there is not much to report this time. If your DX was anything like mine over the first quarter of 1991 you wouldn't be surprised that there's not much to report! But we do have a little bit of input this month so here we go...

Bill Hepburn, 1211-1547 Mississauga Vly Blv., Mississauga, ON L5A 3X8 Canada

News of some new weatheradio stations on air this spring...

XLJ-890	162.475	Kenora, ON
XLJ-891	162.550	Red Rock (// XMJ-374 162.475 Thunder Bay), ON
XLJ-892	162.475	Beardmore, ON
XLJ-893	162.475	North Bay, ON
XMJ-320	162.550	Port Elgin, ON (// XLT-839 162.475 Goderich)
XLN-470	162.475	London, ON (xmtr at Belmont)
VEU-671	162.550	Peterborough, ON

As well, XMJ-316 162.400 Collingwood, ON will now originate programming separate from XMJ-225 162.475 Toronto.

If you compare this list to the bandplan in the Sep.90 VUD you will see that there have been some frequency changes. In addition, the following corrections have been made:

Fort Frances, ON -- frequency should be 162.475  
North Bay, ON -- will originate its own programming and not relay Sudbury  
Ramsey, ON -- will repeat Chapleau not Peterborough (Ramsey is located near Biscotasing)

That's all for now, 73s, Bill

Matt Sittel, NWS News Editor

#### FEBRUARY 1991

21 tr 2014	KHB31	162.550	NC Wilmington	116
	2056	KEC84	162.400	NC New Bern 104
	2226	WXL42	162.400	NC Winston-Salem 88
	2226	KIG77	162.475	NC Cape Hatteras 187

#### MARCH 1991

from Knightdale, NC:				
23 tr 0946	KIG77	162.475	NC Cape Hatteras	178
from Raleigh again...				
26 tr 0657	WXL42	162.400	NC Winston-Salem	88

That's it! The first three months of 1991 featured probably the least DX I've seen since I've been here. As I typy this, the weather has warmed up and DX is picking up, especially the morning enhancement. And, as you're reading this it will be time for E-skip, so make sure you check the NWS band...I had some NWS Es last year, and so can you...but you won't log anything if you don't check!

The address above is no longer in effect. But since I don't have my complete address as of yet, I'll just hope the mail is forwarded. I'll get my address in print perhaps in the June VUD in a DX report. I already know what my address will be this fall, but I'll wait until later to print it, so there won't be any confusion.

Bill Nienajedly recently wrote and mentioned; "...WNET-13 NY at times run NWS audio on SAP. WGBS-57-PA seems to run Philly NWS all the time on SAP. I think ch.22 or is it 28 runs Scranton, PA NWS on their SAP." Thanks for that information, Bill!

Thinking ahead (and trying to fill up space, too!), the WIPFA Convention is in August and it's always a lot of fun! Fortunately my summer school schedule allows me to attend this year. Will YOU be there? Why not come and join the fun? Meet your favorite DXers, exchange stories of that "big whopper of a catch", and learn from others who share your same hobby! Hope to see you there!!!

Well, I think I effectively filled up the rest of this page with odds and ends. Next time I sure hope to have reports of some E-skip on NWS as well as some big tropo catches from this spring. I hope you'll take a few moments to drop me a line and help out the column! Anyway, I wish all DXers the best this E-skip season, and I'll look forward to reading about it in the VUD!!! 73's *Matt*



# NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NY 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, and OR



Notice

DEADLINE: 5th

APRIL 1991

The deadline for Northern FM DX has been moved up to the 5th of the month before publication. I hope this makes reporting a little more convenient. The big story has been a major trop opening on February 8. See Jeff Falconer's report. Bill Nienajady tells me that he has received some reports of long range tropo on TV that day as well. I look forward to seeing what members heard/saw (I missed it myself).....

## JEFF FALCONER - BOX 63, CLINTON, ONTARIO N0M1L0

### JANUARY 1991 DX

**12 MS**  
1138 WRNX 100.9 MA Amherst, "alaven thirty-eight on WRNX coming in about seven..", STATE NUMBER 37 LOGGED 476

**12 TrS**  
1245 WIZY 100.9 MI E Jordan, cf, // WIAA 88.7 218

**12 TrS**  
1958 WMBI 90.1 IL Chicago, \$, wx, wx under WUCX 333

### FEBRUARY 1991 DX

**8 Tr**  
0218 WCH 91.9 IL Joliet, cf 371  
0219 WBEZ 91.5 IL Chicago, cf 333  
0310 WGT 102.3 IN New Castle, kS, Country 102 306  
1010 WQK 99.3 MI Zeeland, cf, wxy of usual CJBC 243  
1014 WPMR 98.3 WI Menomonee Falls, cf 341  
1016 WMT 96.5 IA Cedar Rapids, mrs, 96 1/2 nice tropo for February (I'll say, nice catch-gc) 532  
1019 WTKM 95.9 MI Three Rivers, mrs, ID, first Tr logging on 95.9, no sign of local CPFL 237  
1052 KUUL 103.7 IA Davenport, ID, cf 478  
1128 WSSQ 94.3 IL Stezing, cf, Q-94 458  
1200 WKLL 94.3 IL Elgin, weak ID 366  
1207 WNIZ 96.9 IL Zion, cf 330



Not too much to report, highlight of winter was Feb 8 Tr. Had NE and MO on UHF TV. Will probably stay with the AM band until things start to pick up again in April or so. 73, Jeff

## JERRY MONROE - 3135 FALLS ROAD - MARCELLUS, NEW YORK 13108 (1057 ASL)

Equipment: JVC tuner, with only two 110 khz filters, 10 ele FM yagi, misc filters and traps, 18db CM amp.

### DECEMBER 1990 DX (Other Holiday DX)

**30 Tr**  
0300 WJIA 89.9 PA Scranton, complete ID including translators all night "Jazz After Hours" on American Public Radio (Local WRVO Oswego off at midnight), lots of MS pings  
0310 WHTM 93.3 PA Philadelphia, ID, rock, local WNTQ 95.1 off  
0320 WCAN 93.3 NY Canajoharie, Jazz After Hours program, fair reception, No ID heard but onlyn early educational station on frequency (Does anyone have a list of this late hours PBS type network)  
0325 CHAY 93.1 ON Barrie, strong signal, beautiful music Full and complete regional weather report  
0330 WKHL 93.1 PA Kenovo, called DJ on this one, This is a translator of one wait for WKHL 95.5 FM Atlas says Steve which seems more likely, "Cool 95.5". DJ did not want to hang up phone, very tentative fair reception

### JANUARY 4, 1991 Log

0820 WEA 88.9 MD Baltimore, new state, in/out with ID "your leader in progressive and jazz programming". Local WDWN and WITC off the air for Christmas.

### FEBRUARY 1991 DX

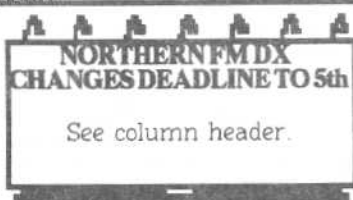
**5 Tr**  
2000 WBEZ 93.7 PA Pittsburgh, B-94ID heard over Buffalo and Dallas, Pa. (not to be confused with WBEZ Boston!)

**12 Tr**  
1145 WHEB 100.3 NH Portsmouth, with "classic hits", fair  
1200 WND 100.1 MA North Adams, good sig, b.tl. ms, AF news  
1800 WHCN 105.9 CT Hartford, Always Rockin  
1910 WAMO 105.9 PA Pittsburgh, with R&B, Hot 106

**12 Tr**  
1845 WCKR 105.9 VA Woodbridge, with metro traffic report and CXR ID, another new state. No semi-local WPHB!

**21 Tr**  
0415 WILQ 105.1 PA Williamsport, slow music, no local WVOA.

I finally am getting the hang of Trop DXing. You have to eliminate all the local and semi-local mixing products, to truly hear the FM band noise floor. By using a broad-band CATV hybrid (18 db gain) on the antenna, and then using a multi-trap arrangement in front of my low-budget tuner I am getting excellent results with only two 110 khz IF filters..... Doug Allen has come up with an excellent idea for studying E-skip. I hope everyone participates. Am planning on building a 5/8 wavelength vertical for my DX-mobile, has anyone built this in the past and with what result?.... I am on 10, 15, 20 meters at lunchtime at work Monday to Friday, would like to contact other hams out there via CW or SSB. Please call me at work 800-448-5171 (800-522-7464 in NY), extension 237. Next month I'll describe how to see "shooting stars" and hear meteor scatter at the same time! 73, s Jerry



See column header.

## NORTHERN FM DX

APRIL 1991

### deBRUCE HALL - 5 STIRTON AVE - BRANTFORD, ONTARIO N3T 1E2

Equipment: JVC JRS201 receiver, modified with 3 150 filters, Magnum Dynalab 205 signal sleuth, Probe 9 w/RG-6 at 50 feet AGL, Crown Rotor. Distances are in km.

### JANUARY 1991 DX

**19 TrS**  
1700 WKTL 90.7 OH Struthers, MOR and polkas ID, over the polka music 253  
1704 CBOE 90.7 ON Ottawa, CBC French, tm, calls heard in French 447  
1730 CBO 91.5 ON Ottawa, CBC, tm, ex 102.5, author of book "BALDIES" discussing hairpieces. Considers Ted Danson's the best. 447

**20 TrS**  
0800 WCLR 95.7 OH Piqua, Q-95.7, b, ment Q95.7 WCLR Piqua/Dayton (Bruce, I think their slogan is CLEAR 95.7-gc) 483

### FEBRUARY 1991 DX

**2 TrS**  
0851 WOHO 104.7 MD Ocean City/Salisbury, Q105 Like Rock TC, "Sparky is the stomic clock that the media uses, the most accurate time used anywhere". Followed by local ads 679

**6 TrS**  
0845 CHEY 94.7 PQ Trois-Rivieres, Shay FM 738

### JANUARY 8 TrS

0716 WKJF 92.9 MI Cadillac, lite rock oldies, KJF Better variety of your favourites on 92.9 FM and 1370 AM KJF, Will To Power 437

### 9 TrS

0738 WWIZ 103.9 PA Mercer, k oldies, I-104 230

### 10 TrS

0801 WAMU 88.5 DC Washington, jk, Bluegrass, Legal ID heard 552

### 15 TrS

0801 WEKU 88.9 KY Richmond, cj, wx, calls highs around 15, NPR intro 679

### 19 TrS

0733 WGNR 88.9 MI Grand Rapids, 89 FM, g 437  
0757 WDBM 88.9 MI East Lansing, 89 FM, p, ph# given 355-3237, Breakfast Cafe 350

0900 WCVB 88.9 VA Richmond, c. "It is now 9 o'clock and you are tuned to WCVB Virginia 88.9 on your FM dial" (Bruce, are you sure you did not hear WCVB Fredonia 88.9 on your FM dial. That would be phonetically very similar to what you report, and with static could easily be mistaken. I wonder if WCVB would ID as Virginia. Do you have a tape to review this?-gc) 667



WELCOME NEW REPORTERS!!

## STEVE SOLOMON - 80 NEWCASTLE DR - HAMDEN, CONNETICUT 06514

(DXing from apartment in East Hartford, CT). Equipment: Yamaha TX930 tuner modified with 2 150khz filters. Antenna: Radio Shack omnidirectional in corner of bedroom on 3rd floor(top) in apartment, no amplification

### NOVEMBER 27, 1990 Tr

1905 WZAD 97.3 NY Wurtsboro, Wizard

### DECEMBER 1990

**15 MS**  
0300 WUGN 99.7 MI Midland

**21 Tr**  
1026 unID 94.9 Classic 95, (Steve, this may be WKLL Utica, NY-gc)

### JANUARY 1991 DX

**6 Tr**  
1127 WHWK 98.1 NY Binghamton, Hawk

**12 Tr (local WHCN 105.9 off the air)**  
0630 WHBI 105.9 CT Hartford, (Steve, the calls are now WNWK-gc)

**23 Tr**  
1454 WOKO 98.9 VT Burlington

### JANUARY 28 Tr

0140 WGBI 101.3 PA Scranton, local WKCI is off the air

### 30 Tr

0222 WQRC 99.9 MA Barnstable, over local WEZN0300 unID 101.7, "Kicks 101.7"

### FEBRUARY 1991 DX

**1 Tr**  
1600 WQKZ 98.5 NY Catskill, Z-98.5

**14 MS & Tr**  
0229 WMYI 102.5 NC Hendersonville My 102.5 heard in burst  
1320 WGIR 101.1 NH Manchester  
1428 WRNX 100.9 MA Amherst, new station, local

This is my first and last from this location. I return to DX hell in Hamden, CT on March 1 tucked under New Haven's West Rock where there's tons of multipath from Hartford! (But maybe it will help block out the locals for better skip DX?-gc. All ID's here taped! All IDs are new unless otherwise noted! (Steve, not that underlining calls indicates a new logging-gc). For any information about my DX reports or a copy of my tapes, write me! See ya, Steve

Last page we saw the first report from Steve Solomon on Hamden, CT. Now another new reporter, also from Connecticut (Bolton), Ed Hanlon. A warm welcome to both of you; hope to see you report again!

**ED HANLON - 165 SOUTH ROAD - BOLTON, CONNECTICUT 06043**

Equipment: Magnum Dynalab Etude (modified) Antennacraft FM13 (home brew) cut 30' AGL, Antennacraft 10G 207. All cable is RG-6U

**FEBRUARY 1991 DX**

- 2 Tr
- 2104 WEXT 96.9 NY Arlington
- 2110 WGR 96.9 NY Buffalo
- WGL 96.1 PA Philadelphia, Oldies 98
- WCLZ 98.9 ME Brunswick
- 2142 WKLX 98.9 NY Rochester
- 4 Tr
- 0811 WXRK 92.3 NY New York, co channel interference (WPRO?-gc), K-Rock
- 8 Tr
- 1910 WYUT 92.7 NY Herkimer

- Feb. 8th trop-scatter continued
- 1932 WFXR 93.5 MA Harwichport, strong ad interference from 93.7
- 1945 WSCG 93.5 NY Cornith
- 2002 WXGL 93.9 ME Lewiston
- 2011 WBPM 94.3 NY Kingston
- 2041 WCTO 94.3 NY Smithtown
- 2109 WCHR 94.5 NJ Trenton
- 2115 WROW 95.5 NY Albany
- 2131 WUPE 95.9 MA Pittsfield, simulcast
- 2150 WNTX 96.3 MA Nantucket
- 2200 WOUR 96.9 NY Utica

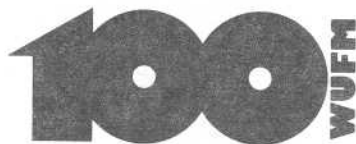
This list is comprised of stations I received AFTER replacing my FM10 with the FM13. The latter has more gain (naturally) but is much more directional. I can't wait to stack a pair of 50' AGL! Thanks to Douglas Allen for providing me with the Antennacraft products and the advice. It's nice to deal with someone who sells antennas, and doesn't think you are crazy for trying to DX with them! When I have more time, I'll submit a more complete listing (Ed, thank you for letting us know how the new antenna setup works for you. Sound pretty good-gc)

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

Equipment: Carver TX-11 tuner, Stereo Probe 9 FM antenna roof mounted about 26' AGL, CAC-11 coax and RS0-10-20 db amp used. Also Realistic Audio Amplifier, and Archerrotor.

**FEBRUARY 1991 DX**

- (forgot date #@^%\$!)
- 0748 WARK 106.9 MD Hagerstown, a/c format, Magic 106.9 slogan 239
- MARCH 7, 1991 Trop-scatter (CFNY 102.1 Toronto off the air)
- 0838 WIOQ 102.1 PA Philadelphia, dance mrx Q-102 non-ID, local ments 270
- 0902 WLEW 102.1 MI Bad Axe, after several dead segues, Cruise 102.1 + calls heard 220
- Also heard were unneeded WOWQ Du Bois, Pa, WDOK Cleveland, and WMUK Kalamazoo, Mich. Briefly heard a top 40 to SSW: Marietta, OH? or just WIOQ coming in?, needed CBOF7 NOT heard



LEBANON BROADCASTING COMPANY  
P.O. BOX 1270  
LEBANON, PA 17042

In January my Pioneer TX-9100 lost almost all its sensitivity very suddenly. I changed back the filters but that did not help any; I figure it might be something in the IF stages. That's the bad news: the good news is that I found a Carver TX-11, for only \$225! It was a used model; the only thing wrong is that the noise reduction button sticks sometimes, I can live with that, hi. Glad to see that the convention will be in Dunkirk, NY this August. I will very likely be able to attend, Dukirk being only 53 miles from me! Hope to see you all there!

73, Greg

**STATION NEWS:** WMJQ 102.5 in Buffalo has changed from dance-top 40 to what could be called either very upbeat adult contemporary or a soft top 40 format...WKQB 107.5 in the Charleston, SC area has gone silent, the same fate has befallen WSFL 106.5 New Bern, NC...Two items to note in California: KWSS 94.5 in San José is supposed to go to a classic rock format. Also KQLZ 100.3 Los Angeles has lost Scott Shannon and dropped their "Rock 40" approach for a more traditional album rock format...WMGM 103.7 in Atlantic City is rumoured to have gone to AC-Sunny 103.7...WSPA 98.9 Spartanburg, SC has switched from easy listening to soft AC...In Massachusetts, WRNX 100.9 Amherst is now on the air (see reports from Steve Solomon, and Jeff Falconer)...in Texas, 94.7 in El Paso is now simulcasting their AM Spanish outlet and is now KAMA-FM.

**MAY 1991 → → LOG CUTOFF: 2 months from postmark → → DEADLINE: The 5th**

Another small column this month. I hope this makes it to HQ; USPS has been somewhat unreliable as of late. Big story is a large auroral opening late in March; hopefully there will be some reports of this in this column and upcoming editions. Please note the new log cutoff policy (as well as the new deadline announced last month); I think this policy is fair, but any comments on the matter are surely welcome. Watch out for skip soon!!

**DAVE NIENAN - 12284 NICE ROAD - AKRON, NEW YORK 14001-9529**

Equipment: Carver TX-11 modified with three 150 khz & two 180 khz IF filters, Heathkit AA-1214 audio amp., Channel Master 4408 (Stereo Probe 9) at 25' AGL (815' ASL), Alliance HD-73 rotor, RG-11 coax

**FEBRUARY 1991**

- 8 tropo
- 1754 KFUD 99.1 MD Clayton, ID+classic-99, c\$ 691
- 1409 KRES 104.7 MD Moberly, agr. report, \$ prev. E-skip 764
- 19 troposcatter
- 0959 WGL 92.3 PA Riverside, ID//WVGL, k\$ (IF filters changed) 167
- 25 troposcatter
- 1000 CBOF 898.7 ON Renfrew, call, t FF, 191
- MARCH 1991
- 7 troposcatter
- 0940 WBL 107.5 NY New York, call, s\$ 280
- 9 troposcatter
- 0854 WMLX 106.7 MA Boston, call+magic-106,\$ 373
- 11 troposcatter
- 1441 WQHQ 104.7 MD Ocean City, call+lite rock-Q 105, r\$ 366
- 14 troposcatter
- 1033 WRLC 91.7 PA Williamsport, call, \$ 138

**MARCH 1991**

- 18 troposcatter
- 0938 WVCI 107.5 PA Boyertown, call+mix-107.5, r\$, prev WBYD 230
- 23 troposcatter
- 1227 WHCN 105.9 CT Hartford, call, op\$ 303
- 1321 WJZN 106.7 VT Vergennes, call, rp\$ 272
- 1356 WMLX 106.7 MA Boston, magic-106.7+ call, r\$m\$ 373
- 24 aurora
- 1700 WVFI 99.7 VA Norfolk, ID, g\$ 439
- 1906 WVES 99.3 VA Accomac, call, mr\$ 389
- 26 tropo
- 0841 WATZ 99.3 MI Alpena, call, k\$ 317
- 1047 CKNX1 104.9 ON Meaford, CKNX+FM-102, r\$ 5 watts 146
- 1100 CBON21 104.9 ON Gogama, call, t FF 357
- 28 troposcatter
- 0817 WJFK 106.7 VA Manassas, call, r\$ 297
- 0956 WBSB 104.3 MD Baltimore, "B-104", r\$ 269

Changing the IF filters in my Carver tuner has been an improvement. The true test will be during a good tropo or skip opening. Dave

**dBURCE HALL - 5 STIRTON AVENUE - BRANTFORD, ONTARIO N3T 1E2**

Equipment: JVC JRS201 receiver (mod w/3-150 filters), Magnum Dynalab 205 signal sleuth, Probe 9 fed with RG6 at 50' AGL, Crown rotor, distances are in km.

**MARCH 1991 DX**

- 1 TrS
- 0659 WYPW 88.9 WV Buckhannon-Weston c, WV Public Radio //WVPM,WVEP, and WVVV, calls, wx 474
- 2 TrS
- 0729 WFRJ 88.9 PA Johnstown, g 333
- 3 MS
- 0753 WKYU 88.9 KY Bowling Green, cj, "1576 Brockelwood, BowlingGreen,KY!" 863
- 5 TrS
- 0659 WOUL 89.1 OH Ironton, cj, Ohio Public Radio //WOUC,WOUB,wx 566
- 0733 WITF 89.5 PA Harrisburg, c after NPR Morning Edition, CIUT nulled 455
- 0800 WCMU 89.5 MI Mt.Pleasant, cj, Mich. Public Radio //WCML,WCSG, wx 373

**MARCH 6 TrS**

- 0738 WOSU 89.7 OH Columbus, c, Ohio State Univ, calls, and Columbus traffic 433
- 8 TrS
- 0832 WDCU 90.1DC Washington,j,FM90 552
- 0826 WIUP 90.1 PA Indiana, yl DJ, rock "on 90.1 WIUP" 299
- 9 MS
- 0738 WNAA 90.1 NC Greensboro, js, "The One", calls with local ad,NC ment 796
- 10 TrS
- 0659 WALJ 90.3 MD Grantsville, g, "He's Alive Radio" after Harvest Time ID with WLIC Frostburg and WRIJ in Masontown,PA, USA radio nx 391

**Skip season is almost here!**

Usually work down the dial: Tried up the dial but with a lot more patience and time spent on educational frequencies. Looked for nulls and taped near top and bottom of the hour. Amazon' what sometimes shows up on TrS or MS if you just wait instead of searching for just strong tropo all over the dial. CKMR 93.9 Windsor, Ontario is again using calls and "More 94" as slogan. They were using the nonID 194 only for quite awhile. Suspected they anticipated a call letter change. Format remains the same. Almost a year now and still no Tennessee logged!! 73db

**STATION NEWS:** WMJQ 102.5 in Buffalo is still top40, but adult based rather than dance as before. Rumour has it that 99.7 in San Francisco is now KFRC-FM and supposedly oldies. 94.7 in Chicago is now "Hot 94.7" (despite WXLX 102.3 already being "Hot 102.3") and dance-top 40. WAIT 105.5 Woodstock, Ill. has signed on to a new satellite "classic rock" format, 106.3 Lansing, Ill. wants the calls WJPC-FM. Thank you Mark Strickert for some of this information.

Bill Nienajady PO Box 2999 Clifton NJ 07015-2999

January 1991

29 Tr	0945+WFCR	88.5 MA Amherst ID Solid!	.....125
	WGBH	89.7 MA Boston ID Solid!	.....200
	WAMC	90.3 NY Albany ID Solid	.....155
	WAMC	90.9 NY Kingston // WAMC Solid!	100
	WBOS	92.9 MA Boston ID Local Like!	200
	WZOU	94.5 MA Boston ID Local!	200
	WHFM	95.3 NY Southampton Local Strength!	
	WSRS	96.1 MA Worcester Stronger than NYC!	
	(WCDJ)	96.9 MA Boston -ex WJIB format same as WQCD 101.9 NYC	
	WCYI	97.7 CT Norwich fair.....	90
	WPLR	99.1 CT New Haven over local WAWZ	

0945+	WTYD	100.9 CT New London local like	
	WCRB	102.5 MA Boston ID LOCAL STRENGTH!	
	WODS	103.3 MA Boston ID Strong!.....	200
	WKLO	104.5 MA Finchburg ID Rare!	
	WIHS	104.9 CT Middletown Local Strength too strong to get that classical station nr Bost	
	WMJV	105.5 NY Paterson o/WDHA!! strong!	
	WVBF	105.7 MA Framingham LOCAL STRENGTH	
	WHCN	105.9 CT Hartford o/lcl- WNWK! at 12 miles!	
	WXKS	107.9 MA Boston OVER WEBE!!!	

A great opening, on TV I had ch 51 from Portland Maine! No Maine on FM though! This opening had Hartford beyond Local strength (if that's possible!). Many other stations not listed, but these above were outstanding. There was another opening around mid to late Feb just like the above but stronger, Rich Shaftan did good on that one.

I did catch local WPLJ 95.5 NYC off early in the evening in January and caught via Trs..... WBRU 95.5 RI Providence & WROW 95.5 NY Albany, or was it in February?

Those interested in NYC happenings: WPLJ Rumoured to go A/C (No comment from me on that!). WEZN Bridgeport CT still "Yawn! A/C" but calling themselves "FM 99.9".

WZFM 107.1 Braircliff Manor calls itself "Express 107.1" Mellow rock format or adult A.O.R. W276AQ 103.1 Carrying WYNY 103.5 NYC, I first thought it was a spur of WYNY but Joe Fela confirmed it as Ft Lee xiting WYNY.

Lastly, if your digital tuner has a "extra space" on it's readout, then it is 90% possible to change the tuning steps, as per diode addition or deletion.

GOODXING! from Dude from Joisey!!!



MIKE CHERRY - BOX 631 - GANGES, BRITISH COLUMBIA V0S 1E0 (604) 537-5201

EQUIPMENT/ANTENNA: see previous NFM columns

JANUARY 1991 DX

22 TrS	2238	KFAE	89.1 WA Tri-Cities, j	279
	2247	KEYW	98.3 WA Pasco, rj, \$	277
29 Au	0140	CKIK	107.3 ABCalgary, k, weak	441
	0156	CJAY	195.1 ABBanff, ID, weak	422
FEBRUARY 1991 DX				
3 Au	0212	KZINT	96.3 MT Shelby, ad	545
	0534	CBX	90.9 AB Edmonton, CBC news parallel to 1010 AM	
	0540	CKRA	96.3 AB Edmonton, Lite 96	544

MARCH 11 GW	0600	KSER	90.7 WA Everett, \$, very eclectic! BBC news, format: pcjfs!!	79
MARCH 1991 DX				
4 Au	2158	KNMC	90.1 MT Havre, ID, CHR	612
9 Au	2200		numerous unIDs, too much "flutter"	
17 MS	0004	KMPR	89.5 NV Las Vegas, "...and Nevada	
			Public Radio where you can hear morning "...", previous Es, semi-local KNHC off 986	

Not much FM DX these last 2 months. No topo to speak of. KSER is a real treat! It makes up for the fact that I've lost a primo DX frequency - 90.7. New license grant to Ellensburg, WA (about 110 miles SSE of KSER) with a higher power may blot out KSER from DXers in the U.S. Word on the ham liason frequency has it that Florida experienced a good E-skip opening a few weeks back. I don't know if the MUF hit FM or not, but hope some members got in on this (I know some southern members reported some FM Es on 2/23-gc). Aurora has been quite frequent with all the solar flares, but most of the signals on FM are just too garbled to be useable (Did you catch the March 24-25 Au? It was unusually clear, at least here-gc). 73\$. Mike VE7SKA

STATION NEWS: In Buffalo, WBUF 92.9 is now "Mix 92.9", still a/c. Big news is apparent changes at 95.5 New York. (Ding only as "MoJo Radio", with a wide variety of music in the top 40 spectrum. The voice overs are being done by Scott Shannon. In Houston, oldies KFMK 97.9 is now urban KBXX "The Box", "putting the Magic Jack in the box" (a reference to KMJQ 102.1 no doubt). In Chicago, WFYR 103.5 is now album rock and WWBZ "The Blaze". WLKC 100.7 Henderson, NY (near Watertown) is on the air, with country music "Lake Country". CJFT Ft Erie, Ont. was on 101.1 briefly, with a very weak MONO signal, but since has been off (still on 530 AM). WKQB 107.5 St George-Charleston, SC is reported to be back on the air, simulcasting WSUY 100.7, WKGD 93.3 Tullahoma, TN-Huntsville, AL is now country WHYK, WOPW 102.3 Augusta now rock/AC. Thanks in Bill Mansfield and Rob Smolark

RALPH STROBEL - 106 E. DAVIDSON STREET - MUNCIE, INDIANA 47305

Equipment: McIntosh MR-78 FM Tuner - \$stereo Probe 9 Antenna 37 feet above ground

January 1991 (EST)

7 tr	1829	WKUE	90.9 KY Elizabethtown, nz, \$, ID	
13 MS	0117	WKGR	98.7 FL Fort Pierce	
27 MS	0201	WJIS	88.1 FL Bradenton	
30 MS	0153	WJIS	88.1 FL Bradenton	
February 1991				
3 MS	1759	KGND	90.5 ND Bismarck Previous Es	
8 tr	2100	WCNL	95.9 IL Carlinville, k\$	
9 tr	0012	WSTZ	106.7 MS Vicksburg-Jsn., rp\$	630
	0058	WIIN	98.7 MS Vicksburg-Jsn., k\$	630
		(o/WHOP	98.7 KY Hopkinsville)	255
	0151	WEVL	89.9 TN Memphis, j\$ (complete address - phone 528-1990)	432
	0200	WMAW	88.1 MS Meridian, j\$ (No legal ID on hr) Previous Es/MS	570
	0303	WRBH	88.3 LA New Orleans, t\$ Previous Es	754
	0352	WZZK	104.7 AL Birmingham, k\$	467
	0359	WEZB	97.1 LA New Orleans, r\$ (o/WENS 97.1 IN Shelbyville-Indy)	754
14 MS	0823	KOYN	93.9 TX Paris	719
24 MS	0500	WUWF	88.1 FL Pensacola-Fort Walton Beach Previous Es	682

February 1991 (cont'd)

27 tr	2300	WSYZ	106.1 IN Newburgh- "The Heat" Evansville, r\$	193
		(o/WINN	106.1 IN North Vernon)	
28 MS	????	KOYN	93.9 TX Paris	719
March 1991				
3 MS	0420	KMXR	93.9 TX Corpus Christi	1098
	????	KMXR	93.9 TX Corpus Christi	1098
12 tr	1546	WKOY	96.7 OH Wellston- Jackson, r\$	163
		(WAXT	96.7 IN Alexandria, off air)	
	1558	WAXT	resumes broadcasting	
	2338	WKPK	100.5 MI Carrollton, r	238
		(o/WWKT	100.5 IN Kokomo, low power)	
14 tr	0453	WHET	99.7 WI Sturgeon Bay, r\$ 337	
		ex-WSEW	100.1 Green Bay wx/calls (NSHW 99.7 IN Frankfort, off air)	
			(Severe ice storm - my power off 18 hrs)	
	18 GW			
	0930	WVKI	100.5 IN Kokomo, k\$ (back to normal power)	44
25 GW				
	1200	WSHW	99.7 IN Frankfort, r\$ (back to air 24 hrs)	57
27 MS	????	WJIS	88.1 FL Bradenton	892
29 MS	0101	KNTU	88.1 TX Denton	809
			(All DX recorded on tape as usual)	

Meteor Scatter Results:

1/13 WXXX "...95.7 KGR walkin' through another half hour of non-stop rock 'n roll..."  
 1/27 WJIS "...WJIS..."  
 1/30 WJIS "...crusade in Bradenton..."  
 2/3 KCND "...Devils Lake is clear..."  
 2/14 KOYN "...Sherry Beaumont, uh, Charlene Nelson, Happy Valentine's Day from Marty Higgs of Paris, and Happy Valentine's Day to...from Josh Belch and to Helen from Freddie..."

2/24 WUWF "...ton Beach..."  
 2/28 KOYN "...Eastern Oklahoma. Tuned to the station with twice..."  
 3/3 KMXR "...headlines at 7:40 right here on the best mix...we're in the Corpus Christi Bay Area..."  
 KMXR "...area weather forecast including Pichonea, Padre Island and Bayside..."  
 3/27 WJIS "...IS Bradenton..."  
 3/29 KNTU "...in Denton..."

The only good thing regarding our March 12-14 ice storm is that a few area FMs were off the air or on low power. I was fortunate that my electricity was off for only 18 hours. Many went nearly a week with no power! According to the Muncie Evening Press, "Ice and snow caused \$55 million in damage to power lines and other equipment. This is the worst ice storm people have seen in 50 years. Most service outages were caused by ice or falling trees severing overhead power lines." Anderson, Kokomo, Frankfort, and Lafayette were hit hard by the storm. I taped 99.7 and 100.5 constantly, hoping a meteor burst would give me a new station, but to no avail. MS is not good this time of year. I also tried for the new 99.7 WWTN Manchester-Nashville, TN. Conditions were not good, so WDJX in Louisville, KY and WGGG Columbus, OH dominated.

February 8-9 found a great tr opening. If only this would happen more frequently! E-Skip will be here soon!



73- Ralph

ED HANLON - 165 SOUTH ROAD - BOLTON, CONNECTICUT 06043

Equipment: Magnum Dynalab Etude (modified), McIntosh MR78 (Modelleri modified), Antennacraft FM13 at 30! (preamp removed), cable is RG60. All loggings are new.

MARCH 1991 DX

- 6 Tr  
0907 WSHQ 103.5 NY Cobleskill, Show FM
- 0951 WEQX 102.7 VT Machester, calls heard
- 0958 WUUU 102.5 NY Rome, Oldies 102.5  
"Leavin' on a Jet Plane"
- 1016 WKGW 104.3 NY Utica, songs, "Alibis"  
and "Too Hot", KG-104
- 1032 WPYX 106.5 NY Albany, Capital Land'  
Original, Picks 106
- 1036 WHLM 106.5 PA Bloomsburg, Mix 106
- 7 Tr  
1940 WGY 99.5 NY Schenectady, The New  
Oldies 99.5, top 300 hits of all time
- 25 GW  
unID 97.1 WKHJ-FM "Hartford" K-Gold 97  
(A pirate?gc)

- 26 Tr  
WUSL 98.9 PA Philadelphia, Power 99 FM
- 2207 unID 97.1 Broadcasting CNN, but from the  
northwest! CT Commercials were running
- 2221 WKCR 89.9 NY New York, The Blowtorch  
of the Northeast
- 2226 WERU 88.9 ME Blue Hill, Toker/S.Miller
- 2236 WRVO 89.9 NY Oswego
- 2248 WNMB 100.1 MA North Adams
- 2259 WHEB 100.3 NH Portsmouth, Heart of Roc
- 28 Tr  
2106 WLZW 98.7 NY Utica,
- 2159 WKBK 98.7 NH Keene, Sally Jesse Raphael
- 30 Tr  
1015 CIME 99.5 PQ Ste-Adele, French talk
- 1025 WBAI 99.5 NY New York
- 99.7 baby monitor, due east. (I have a baby  
monitor on the same freq, the very next house so  
it is basically a new local-gc)

Watch for E-skip!

Two exciting new discoveries this month! I received a pirate "conspiracy" on 97.1. Saturday night 3-23, I received "WKHJ" from the east. On 3-26, I picked up their CNN rebroadcast from the Northwest. I assume there are at least two parties involved. Does anyone in my area know about this? With Doug Allen's prodding, I removed the Antennacraft preamp. There was much less noise, and the MR78's performance improved. However, the Magnum Dynalab's performance ran in the opposite direction. Maybe frustration is getting the best of me, but I finally received something on 99.7, a baby monitor! (harmonic?gc). Does this count? (Don't know, I did not count the one I heard, but I think you can count harmonics if you want. Does anyone know if there is a specific rule on this?gc). On April 6th, the Connecticut Audio Society is holding their annual "FM Tuner Shootout". I'll report the results in next month's VUD. 73s

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

Equipment: Carver TX11 tuner, modified with 3 150 khz filters. Archerrotor, CAC11 and HG59 used. Radio shack SA150 amplifier, Stereo Probe 9 at about 26' AGL

MARCH 1991 DX

- 22 Tr  
WBLK 93.7, WJYE 96.1, and WYRK 106.5 off
- 1438 CBCN 96.1 ON North Bay, CBC 230
- 1440 WHNN 96.1 MI Bay City, The all  
New Oldies 96 257
- 1443 unID 106.5 very weak, calls sounded  
like WVIA. Is WUIA on?
- 1448 WLEY 96.1 PA Easton, rm\$, my  
100th Pennsylvania logging 232
- 1454 WLTE 106.5 OH Cleveland, Lite Rock 189
- 1459 WDIS 93.7 PA Dallas, calls, ch22 ad 182
- 1510 WQCB 96.1 PA Red Lion, g\$ 238
- 24 Big Au opening!
- 1553 WJQI 94.9 VA Virginia Beach, Joy 95,  
Hampton Roads, CKOT off or wiped out 452
- 1600 WTNJ 105.9 WV Mount Hope, k, ID  
with Oak Hill and Beckley 373
- 1602 WDLX 93.3 NC Washington, Lite 93.3  
Thanks Matt Sittel for IDing this! 523
- 1618 WCAS 104.3 NC Tarboro, Duke BB 494
- 1646 WYFI 99.7 VA Norfolk, g 447
- 1655 WZFX 99.1 NC Whiteville, song by  
C & C Music Factory 600
- 1701 WRVL 88.3 VA Lynchburg, legal ID 388
- 1859 WAMU 88.5 DC Washington, strong 295
- 1900 WPFW 89.3 DC Washington, Pacifica 295
- 2002 WSNE 93.3 MA Taunton, Mix 93.3 WSNE,  
called station to confirm slogan STATE #38
- 2239 WWMS 97.5 MS Oxford, Miss 98, k 931
- 2302 WFXO 104.9 MS luka, ID with Tupelo  
"The Fox" signoff, ex: WTUB 761
- 2321 KKIX 103.9 AR Fayetteville, Kix 104,  
NW Arkansas wx, very clear for Au, 100kw 950
- 24 Tr S  
2145 WKXW 101.5 NJ Trenton, o\$, New Jersey  
101.5, finally!, o/CFMP 279
- 2200 WMGH 105.5 PA Tamaqua, Magic  
105.5 WMGH, rm\$ 207
- 25 Tr (+Au @ 1700-no IDs)
- 1927 WDIF 94.3 OH Marion, calls 280
- 2001 WFYC 104.9 MI Alma, calls 296
- 26 Au  
0830-0840 relogs WCML 91.7 MI, WMYX 99.1 WI
- 27 Tr  
1938 WWCK 105.5 MI Flint, CK105, rs\$ 248
- 29 Tr S  
1257 WALK 97.5 NY Patchogue, calls, rm\$ 330  
finally heard o/WCIZ-WPST-WKYN mess
- 31 Tr (93.7, 96.1 and 106.5 off again)
- 1151 WKKW 106.5 WV Clarksburg, k\$ 269
- 1243 WJFM 93.7 MI Grand Rapids, op\$  
Classic Rock 93-7 JFM 348

SOUTHERN FM DX

MARCH FEATURES GULF TROP!

March, if typical, often turns out to be a do nothing, inactive period for DXing but March '91 turned out to be exceptional, especially for 3 DXers. The 3 had Gulf trop in with on of the longest pathways covering 1000+ miles between the Miami area and the southern tip of Texas. Gulf Tr was in on three different dates. A few other episodes of trop were noted elsewhere during March with most distances staying under 400 miles. The Aurora was witnessed deep into the South, but little DX was associated with it. Meantime, it seems a good time of year for these points:

ANTENNA INSTALLATION TIPS: Start with a good antenna like a Winegard CS-6065 or Channel Master Probe 9. The latter has been available at Sears. Both antennas are about the same overall in quality. 2. Use RG-6 cable most easily found at Radio Shack. Be careful about choosing the correct cable length without requiring splicing. Splicing robs several db's of signal strength. 3. Install antenna at least 25 or 30 ft. above ground. For guy wire use the thicker grade that Radio Shack sells. (very important for rotored antennas.)

Christopher S. Dunne, 21541 NW 8 Ct., Box 81, Pembroke Pines, FL 33029

Equipment: GE Superadio II mod. w/ 150 filters, Radio Shack 6-element FM antenna, Pioneer car radio

SuperTrop: March 1991 will be remembered for quite a long time as being a month of personal record trop. Some of these loggings you may find hard to believe (see 105.5 log!), but they happened. The Lord sure was generous to me! Much thanks go out to Him and also to my neighbor who got on my roof to install the Shack antenna for good (it had been a temporary set-up before). This report is so verbose that I'll have to set limits from now on; e.g., 300 or more miles for Class B, 200+ for C, and 100+ for A, except for new stations on-air or stations over my locals! Here we go...

Time	Call	Freq.	St	Location, details	Miles	Time	Call	Freq.	St	Location, details	Miles
3/4 Tr						1000	XHMT	98.5	YU	Merida, SS ID, my 1st Mex. from home. Country #10 & 6th in past 6 months!	660
2053	WERY	93.5	FL	Key West "Key 93"	125	2230	WAFE	95.1	FL	Jacksonville, from car	300
3/6 Tr						3/9 Tr					
0850	KRRV	100.3	LA	Alexandria, k, "K- Double-R-V"	780	0030	GMW	93.5	CUBA	Santa Clara, was //AM 840 but isn't always	230
0900	KSTA	89.1	TX	San Antonio, ID	1090	3/15 Tr					
0902	KLUX	89.5	TX	Robstown, ID	1015	0900	WQHX	105.1	FL	Orlando, "Mix 105.1" u/WHQT	189
0923	WCTV	92.1	FL	Venice, ID	135	3/19 Tr					
0930				Local WADJ 95.7 OFF!.....		2323	WLO4	103.1	FL	Winter Park, ID, j	190
	WMAZ	95.7	LA	New Orleans, "Mix 95.7", wx	615	2326	WUSA	100.7	FL	Tampa, "w-101" u/ WHYI, ment. St. Pete	170
1000	KZFM	95.5	TX	Corpus Christi, ph. #, "WZ-95"	1015	2330	WNLT	95.7	FL	Clearwater, "Mix 96", u/WXDJ	175
1004	unID	95.7		k, probably KIKK Houston, but WADJ back on - AAGHR!		2332	WYNF	94.9	FL	Tampa "95 YNF" u /WZTA	170
1008	KLXX	98.5	TX	McAllen, ID in SS + "Estereo Mar"	1070	3/20 Tr					
1019	KBFM	104.1	TX	Edinburg, "B104", ment. Harlingen	1030	0000	unID	89.5	p,	college-type DJs, verbal soundtrack from the Bugs Bunny cartoon "Hare Do" w/ Elmer Fudd - CAN ANYONE HELP ON THIS??	
2300	WLWF	90.3	FL	Haines City, ID, u/WAFG	150	0009	KSTX	89.1	again!		
2305	WKZY	92.5	FL	LaBelle, New Fred	82	0109	KLIT	100.3	TX	Houston, ID	900
3/7 Tr						0120	KLUX	89.5	again!		
0012	KKMY	104.5	TX	Orange, silly promo	825	3/21 Tr					
0015	KJLS	106.9	TX	Conroe, ID	910	2055	WSPF?	98.1	AL	Andalusia, sound- ed like "Surf"	
0028	WVLY	107.9	TX	Edinburg, ID	1030						
0045	WATB	97.9	FL	Clearwater u/WRMF, "98 Rocks Tampa"	175						
0112?	KNCN?	101.3	TX	Sinton? "C-101"	71025						
0116	KRRG	98.1	TX	Laredo, "Energy 98 Live"	1140						
0100+unID	106.3		SS	"Radio Exitos" - YKOR TX?							
0100+unID	105.5		TX	Mission, verified by phone by Mr. Her- nandez, CLASS A!	1060						

cont.



## SOUTHERN FM DX

3/6 tr  
 0537 KYKR 93.3 TX Port Arthur  
 0556 WMNF 88.5 FL Tampa  
 0559 WDCO 89.7 GA Cochran  
 0559 WRBH 88.3 LA New Orleans  
 0617 WCKW 92.3 LA Laplace  
 0629 WUSF 89.7 FL Tampa  
 0632 WKSJ 94.9 AL Mobile  
 0640 WMTM 93.9 GA Moultrie  
 0743 WJIZ 96.3 GA Albany  
 0745 WFTK 99.7 SC Port Royal  
 0753 KUEZ 99.3 TX Lufkin  
 0800 KQID 93.1 LA Alexandria  
 0802 KTDY 99.9 LA Lafayette  
 0806 WEEJ 100.1 FL Port Charlotte  
 0820 WWKA 92.3 FL Orlando  
 0835 WMCU 89.7 FL Miami  
 0847 WHLX 101.5 GA Brunswick  
 0855 WFSQ 88.9 FL Tallahassee  
 0910 WUSA 100.7 FL Tampa  
 0955 WKES 101.5 FL St. Petersburg  
 1042 WWRM 107.3 FL St. Petersburg  
 1059 WYNF 94.9 FL Tampa

Dyer, cont.

3/19 tr  
 2224 WYNK 101.5 LA Baton Rouge  
 2245 KYKS 105.1 TX Lufkin  
 KBIU 103.7 LA Lake Charles  
 2327 WCKW 92.3 LA Laplace  
 3/20 tr  
 0021 WCKW 92.3 LA Laplace  
 0022 KNUE 101.5 TX Tyler  
 0101 WRBH 88.3 LA New Orleans  
 0116 WMNF 88.5 FL Tampa  
 0120 WUSF 89.7 FL Tampa  
 0154 KYKR 93.3 TX Port Arthur  
 0156 KOYN 93.9 TX Paris  
 0220 KR0F 104.9 LA Abbeville  
 0223 KVOL 105.9 LA Opelousas  
 0235 KYKS 105.1 TX Lufkin  
 0300 KISX 107.3 TX Whitehouse  
 0320 KSMB 94.5 LA Lafayette  
 0814 KIPR 92.3 AR Pine Bluff  
 3/24 tr  
 1625 KRIO 94.1 TX Floresville

MAY 1991

## MORE SUPER GULF TR:

John F. Combs N4SFS, P. O. Box 7581, Tallahassee, FL 32314  
 Equip.: Hitach SR-503 receiver(modified with 150 kHz filters), Radio Shack omnidirectional FM antenna on tripod on 2nd floor balcony about 22' AG.

2/23 Es 1095  
 1917 KRVN 93.1 NE Lexington, ID, "Light 93"  
 1922 KQNA 92.5 KS Phillipsburg, ads 1065  
 1929 KYEZ 93.7 KS Salina, 955  
 "KY-Country 94"  
 3/1 tr  
 2000 WOLZ 95.3 FL Ft. Myers, ID, hrd mobile  
 2127 WSPF 90.1 FL Ft. Myers, //WUSF Tampa  
 2129 WSEB 91.3 FL Englewood 265  
 2139 WEEJ 100.1 FL Port Charlotte, The Coast  
 2146 WAKS 103.7 FL Cape Coral 300  
 3/5-6 tr!  
 2209 KSEJ 89.3 TX Humble, solid mobile 670  
 215 KAJN 102.9 LA Crowley, preacher 500  
 2255 WCKW 92.3 LA Laplace, ID 365  
 2258 KAAU 101.9 TX Huntington, local 625  
 ads "KQ-102"  
 0012 KBNR 88.3 TX Brownsville, tent.  
 (SS preacher)  
 0020 KLUX 89.5 TX Robstown, Cath. PSAs 845  
 0022 KQID 93.1 LA Alexandria, LA wx, 495  
 0025 KZFM 95.5 TX Corpus Christi, ads 825  
 0038 KCFY 100.3 TX San Antonio, 840  
 "S.A.'s Real Country"

My interest in FM DX has been somewhat renewed by my move to Tallahassee, a very good DX location. This report just goes to show that exciting FM DX isn't limited to those with fancy receivers or huge antennas! The Hitachi's selectivity was dramatically improved by the filter mod; however, some adjacents still difficult, and the receiver is prone to overload. I just acquired an old Heathkit AJ-15 from Carlton Howington and I'm anxious to see how this tuner will perform with a similar modification.

I have rediscovered how FM conditions do not always mirror those on TV! For example, the higher power Birmingham FMs (about 260 miles distant) are in quite often when there is no sign of WBMG-42, WITO-21, etc. By the way, all mileages are approximate—I don't have the time, gumption, or computer memory to research and produce an FM version of DX DISTANCE Printouts, hi! 73.

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

## SOUTHERN FM DX

3/2 /90 Es  
 1850 WUPS 98.5 MI Houghton Lake  
 1852 XWXP 96.9 IL Moline  
 1843 WLHT 95.7 MI Grand Rapids  
 1921 WHWC 88.3 WI Menomonie  
 1928 KBEM 88.5 MN Minneapolis  
 1947 WTEX 93.9 MN Hibbing  
 8/10 ES  
 1119 KXRA 92.7 MN Alexandria  
 1124 KDCR 88.5 IA Sioux Center  
 8/12 tr  
 0403 KWRW 97.7 TX Rusk  
 0700 KEEP 92.3 TX Marshall  
 KJAE 92.7 LA Leesville  
 0731 KDAQ 89.9 LA Shreveport  
 0746 KISX 107.3 TX Whitehouse  
 ms  
 1146 KLZY 92.5 WY Powell  
 8/13 ms  
 1218 WMNF 88.5 FL Tampa  
 8/15 Es  
 1126 KSHR 88.5 CA Mission Viejo  
 1128 XHRM 92.5 BCN Tijuana  
 1138 KJQY 103.7 CA San Diego  
 1837 KDPR 89.9 ND Dickinson  
 1847 KKRC 93.5 SD Sioux Falls  
 1854 KMIT 105.9 SD Mitchell  
 1855 KESD 88.3 SD Brookings  
 1902 KDLO 96.9 SD Watertown  
 1911 KSEZ 97.9 IA Sioux City  
 1922 KXRA 92.7 MN Alexandria  
 1929 KJKK 96.5 MN Fergus Falls  
 1936 KZKX 96.9 NE Seward  
 1938 KQWB 98.7 MN Morehead  
 1948 WDAY 93.7 MN Fargo  
 1952 KKOK 95.7 MN Morris  
 2009 KQKY 94.5 ND Bismarck  
 2016 KGFY 92.7 SD Pierre  
 8/16 ms  
 0735 KDCR 88.5 IA Sioux Center  
 8/20 tr  
 0028 KQXY 94.1 TX Beaumont  
 0033 KYKX 105.1 TX Lufkin  
 0036 WCKW 92.3 LA Laplace  
 0358 KLSA 90.7 LA Alexandria  
 0525 KEEP 92.3 TX Marshall  
 8/25 tr  
 0109 WCKW 92.3 LA Laplace  
 0126 WYNK 101.5 LA Baton Rouge  
 8/26 tr  
 0154 WCKW 92.3 LA Laplace  
 0228 WYNK 101.5 LA Baton Rouge  
 0243 KQXY 94.1 TX Beaumont  
 0300 KTXB 89.7 TX Beaumont  
 8/31 tr  
 0624 WQCK 92.7 LA Clinton  
 0628 WYNK 101.5 LA Baton Rouge  
 0632 WCKW 92.3 LA Laplace  
 0636 KYKR 93.3 TX Port Arthur  
 10/15 tr  
 0051 WYNK 101.5 LA Baton Rouge  
 0059 WCKW 92.3 LA Laplace  
 10/16 tr  
 0435 WCKW 92.3 LA Laplace  
 0437 WYNK 101.5 LA Baton Rouge  
 0455 KSMB 94.5 LA Lafayette  
 0702 WRBH 88.3 LA New Orleans  
 11/1 tr  
 0013 KYKR 93.3 TX Port Arthur  
 0140 WCKW 92.3 LA Laplace  
 11/13 tr  
 0925 KAMV 92.3 TX Victoria

Dyer, cont.

11/23 /90 tr  
 0954 KYKS 105.1 TX Lufkin  
 1026 KQID 93.1 LA Alexandria  
 1028 KYKR 93.3 TX Port Arthur  
 1037 KMKS 102.5 TX Bay City  
 1042 KIOC 106.1 TX Orange  
 1044 KISX 107.3 TX Whitehouse  
 1051 KHYS 98.5 TX Port Arthur  
 12/11 tr  
 1400 KLTD 98.9 TX Lampasas  
 12/14 ms  
 0622 WJTE 88.5 KY Okolona  
 0725 KDCR 88.5 IA Sioux Center  
 0807 KRSA 96.9 AL Decatur  
 0821 KJJY 92.5 IA Ankeny  
 tr  
 0822 KIFY 92.3 TX Killeen  
 12/25 tr  
 1038 KKYS 104.7 TX Bryan  
 1/1 /91 tr  
 0253 KQXY 94.1 TX Beaumont  
 0303 KUEZ 99.3 TX Lufkin  
 KYKS 105.1 TX Lufkin  
 0344 KHYS 93.5 TX Port Arthur  
 1/28 tr  
 1901 WYNK 101.5 LA Baton Rouge  
 1909 WCKW 92.3 LA Laplace  
 1920 KIOC 106.1 TX Orange  
 1927 WRBH 88.3 LA New Orleans  
 1/29 tr  
 0000 KLSA 90.7 LA Alexandria  
 0006 WMAU 88.9 MS Bude  
 0016 KNUE 101.5 TX Tyler  
 0021 KISX 107.3 TX Whitehouse  
 0026 KLAZ 105.9 AR Hot Springs  
 0032 KOOI 106.5 TX Jacksonville  
 0040 KZMZ 96.9 LA Alexandria  
 2/1 Es  
 1914 WNCI 97.9 OH Columbus  
 1924 WQFA 94.1 IL Watseka  
 1932 WYCA 92.3 IN Hammond  
 1935 CIMX 88.7 ON Windsor  
 1952 WIBM 94.1 MI Jackson  
 2008 WVIC 94.9 MI East Lansing  
 2012 WJXQ 106.1 MI Jackson  
 2016 WOOD 105.7 MI Grand Rapids  
 2019 WNNW 98.5 MI Kalamazoo  
 2023 WRSW 107.3 IN Warsaw  
 2026 WLAV 96.9 MI Grand Rapids  
 2/2 tr  
 0939 WCKW 92.3 LA Laplace  
 0948 WYNK 101.5 LA Baton Rouge  
 2/23 Es  
 1800 WAMU 88.5 DC Washington  
 1814 WKYS 93.9 DC Washington  
 3/5 tr  
 2039 WYNK 101.5 LA Baton Rouge  
 2059 WCKW 92.3 LA Laplace  
 2102 WRBH 88.3 LA New Orleans  
 2103 WMNF 88.5 FL Tampa  
 2106 KSMB 94.5 LA Lafayette  
 2115 WKSJ 94.9 AL Mobile  
 2125 KYKR 93.3 TX Port Arthur  
 2128 WUSF 89.7 FL Tampa  
 2139 WQMX 105.1 FL Orlando  
 2147 KHOM 104.1 LA Houma  
 2152 WMTM 93.9 GA Moultrie  
 2157 WMFE 88.9 FL Tallahassee  
 2159 WFSU 91.5 FL Tallahassee  
 3/6 tr  
 0533 KYKS 105.1 TX Lufkin  
 cont.....

MAY 1991

# TBN TV LIST

FROM BILL NIENAJADLY VIA BOB TIMMERMAN...AS YOU WILL SEE IT HAS NO CALL LETTERS BUT DOES LIST THE CITY OF LICENSE AND MOST IMPORTANTLY LISTS TRANSLATORS! TBN: BOX A, SANTA ANA, CA 92711

Q<sub>10</sub> S<sub>1</sub> L<sub>1</sub> C<sub>0</sub> O<sub>1</sub> R<sub>1</sub> N<sub>1</sub> E<sub>1</sub> R<sub>1</sub> & L<sub>1</sub> O<sub>1</sub> G<sub>2</sub> O<sub>1</sub> S<sub>1</sub> R<sub>1</sub> U<sub>1</sub> N<sub>1</sub>

Thomas J. Vingling, jr. KA3TCC  
221 Pinewood Road  
Baltimore, MD 21222-2345

**MM. KCMK 95.5 New Prague**, P. O. Box 251, zip 56071. Dave Douglas, Program Director sent long letter concerning this new station "Yes, to date, you are unquestionably the furthest listeners to report in!" They are on from 5:00 am to Midnight & invited me to visit. (Elving)  
**NH. KOUU 101.7 Olivia**, P. B. Box 6, zip 56277. George S. Blum, Owner send short letter, after one follow-up report, saying: "Good luck in your FM listening, and may you listen for another 42 years." (Elving)  
**WA. KGIS 91.3 College Place**, % 204 South College Ave., Walla Walla College, zip 99324-1198. Kevin Krueger, General Manager sent friendly letter saying my original report was so unusual to many different places, and I am the most distant listener they know of." (Elving)  
**SD. KMSP 104.3 Milbank**, P. P. Box 1005, zip 57252. Charles Tobin, President, wrote me nice letter saying that the transmits is 32 km west of Milbank (what about miles?) and that reports from Duluth and Eveleth, MN are the greatest distance for "POWER 104 FM" (Elving)  
**FL. WTJH 90.1 Crestview**, % Rt. 2, Box 204, Baker, FL zip 32531. Robert Williamson, General Manager, mentioned also being heard in London, Ont the same day I got them (Robert Ross?) (Elving)  
**IA. KHRT 97.7 Humboldt**, P. O. Box 337, zip 50548-0337 Letter verification % Bob Baker (NFDFA member) Baker sends third parth qsl of this station which has NEVER answered any of my reports since the early 70's. (Elving)  
**KS. KJTV 88.1 Topeka**, 2519 Topeka Ave, zip 66617-1163. Lette from Warren Wilson, Operations Manager wrote me short note of verification. (Elving)  
**MN. KMOM 104.9 Saint James**, P. O. Box 465, zip 56081. Dick Moore, CE wrote short letter saying the previous long distant report was from a person hearing it in his car in Edina, MN (South west Minneapolis suburb) in 1987. (Elving)  
**MO. KIRK 103.7 Lebanon**, P. O. Box 1112, zip 65536. Bob Moore, CE wrote back & accuses me of being "the farthest that anyone has reported hearing KIRK Radio Station." (Elving)  
**NE. KJCH 104.9 Wayne**, P. O. Box 413, zip 68787. Letter from Mark Ahmann, General Manager. Also sent flyer on their 20th anniversary of two (2) years ago! (Elving)  
**NE. KXNE 89.1 Hastings**, see below  
**NE. KXNE 88.7 Lexington**, see below  
**NE. KXNE 89.3 Norfolk**, % P. O. Box 83111, Lincoln, NE 68501-3111. Letter from William R. Ramsay, Tech. Dir. who verified all three (3) stations in one (1) letter. He says they get their programming via C-Band transponder on GET Spacenet 1L with DX reports on the satellite as far as Central America. (Elving)  
**MI. MORT 89.9 Madison**, 118 South Bedford St., zip 53703. Howard Gelman, General Manager sends short note, map & program guide saying my report from the greatest distance he knows of. He wants me to "keep listening and let us know how the reception goes." (Elving)  
**SD. KKLS 104.7 Sioux Falls**, 3205 South Meadow, zip 57106. Reid Holsen, Program Director sends letter saying their tower is 40 km west of Sioux Falls (what about miles?) near Humboldt SD. He says they have been heard by a listener aboard a jet traveling west near Chicago and by skip in to Florida one time. (Elving)  
**WA. KFAE 89.1 Richland**, % WSU Center, Pullman, WA 99164-2530. Letter from Dennis L. Haarsager, General Manager, saying he is also a DX'er, and has heard from a colleague last year in a car while driving from Tucson, AZ to Albuquerque, NM. (Elving)  
**WI. WLDY 92.7 Ladysmith**, P. O. Box 351, zip 54848-0351. Ruth A. Jonasen, General Manager, mentions they had their transmitter on all night because lightning struck, damaging their remote control. It is Okay now, so the carrier won't be on all night any more. (Elving)  
**WV. KIRZ 93.1 Riverton**, Box 808, zip 82501. Kurt Browall, President, sends letter, map & sales sheet, & also mentioning that they previously was heard in North Dakota near the Minnesota boarder, (Fred McCormack?) (Elving)  
**ONT. CBOQ 90.5 Fort Frances**, % 213 Miles Street, Thunder Bay, Ont. Letter from Wilder Lewis, Location Manager (?) sends pin literature & letter saying my report the most distant. (Elving)  
**ONT. CENQ 93.1 Marathon**, Box 1000, zip P01 2E0. Letter, bumper sticker, & coverage map from S. Spencer Bell, says they seldom get reports from the USA because WIMK Iron Mtn, MI came on the air about the same time they did. (Elving)  
**SD. KRSD 88.1 Sioux Falls**, % Box 737, Augustana College, zip 57197. Unsigned note to my letter: "Great reception! To my knowledge -- this is the greatest distance." (Elving)

TBN sent me an updated list of TBN owned and affiliated stations, which I have copied verbatim. CAPS indicate full power stations, lowercase are LPTVs. Call letters were not given. I think this list will be useful to every DXer since most of the stations are LPTVs.

**ALABAMA**: Birmingham 53, GADSDEN 60, MOBILE 21, MONTGOMERY 45, Opelika/Phenix City 66 **ARIZONA**: Cottonwood 58, Flagstaff 62, Globe 63, Lake Havasu City 25, PHOENIX 21, Tuscon(W) 56, Tuscon(E) 57 **ARKANSAS**: DeQueen 8, Fayetteville 42, Ft. Smith 27, Harrison 66, Little Rock 33, Mountain Home 43 **CALIFORNIA**: Alturas 30, Bakersfield 55, Buelton/Solvang 53, Desert Hot Springs 60, Fresno 56, Lancaster 62, Lompoc 23, Monterey 53, Palm Springs 66, Redding 65, Ridgecrest 54, Sacramento 69, SAN JOSE 65, San Luis Obispo 36, SANTA ANA/L.A. 40, Santa Maria 65, Thousand Oaks 55, Victorville 33, Visalia/Porterville 15, Vista 49 **COLORADO**: Boulder 17, Colorado Springs 43, Denver 57, Loveland 48, Pueblo 48 **DELAWARE**: Dover 67 **FLORIDA**: Alachua 69, Dunedin 60, Ft. Myers 67, Ft. Pierce 21, Gainesville 69, Jacksonville 59, Lake City 2, LEESBURG 55, MIAMI 45, Pensacola 63, Perry 69, Sarasota 24, Tallahassee 17 **GEORGIA**: Albany 23, ATLANTA/MONROE 63, Augusta 65, Brunswick 33, Savannah 67 **HAWAII**: HONOLULU 26 **IDAHO**: Boise 47, Lewiston 66 **ILLINOIS**: Champaign 34, LaSALLE/CHICAGO 35, MARION 27, QUINCY 16, Robinson 57, Rockford 62 **INDIANA**: BLOOMINGTON/INDIANAPOLIS 42, Ft. Wayne 66, Jeffersonville 5, Michigan City 24, RICHMOND 43, Terre Haute 65 **IOWA**: Ames 52, Carter Lake 53, Cedar Rapids 61, Davenport 58, Des Moines 55, Iowa City 64, Keokuk 60, Ottumwa 42, Council Bluffs 45, Waterloo 65 **KANSAS**: Junction City 25, Manhattan 31, Salina 15, Topeka 21, Wichita 59 **KENTUCKY**: BEATTYVILLE 65, Hopkinsville 62 **LOUISIANA**: Baton Rouge 56, New Orleans 59 **MAINE**: Bangor 17, Presque Isle 51 **MARYLAND**: Cresaptown 16 **MICHIGAN**: Detroit 66, FLINT/SAGINAW 49, Grand Rapids 19, KALAMAZOO 64, Muskegon 29 **MINNESOTA**: Duluth 58, Minneapolis 58, New Ulm 22, Rochester 60, St. Cloud 19, Wilmar 27 **MISSOURI**: Branson 25, Columbia 56, Neosho 32, Poplar Bluff 39, Springfield 52, ST. JOSEPH/KANSAS CITY 16

**MISSISSIPPI**: Biloxi 2, Bruce 7, Clarksdale 31, Columbus 25, Jackson 64, Pascagoula 46 **MONTANA**: Billings 5, Helena 41 **NEBRASKA**: Lincoln 39, Omaha 45 **NEVADA**: Las Vegas 57, Reno 45 **NEW MEXICO**: Alamogordo 29, ALBUQUERQUE 23, Carlsbad 63, Maljamar 46, Portales 66, Riodoso 45, ROSWELL 27 **NEW YORK**: Albany 64, Binghamton 14, BUFFALO 49, Jamestown 10, Olean 22, POUGHKEEPSIE 54, Rochester 59, Utica 41 **NORTH CAROLINA**: Charlotte 68, Gastonia 62, Goldsboro 59, GREENSBORO 61, Wilmington 20 **NORTH DAKOTA**: Rugby 20, Williston 41 **OHIO**: CANTON 17, Chillicothe 40, Columbus 24, Dayton 68, Marietta 26, Marion 39, Portsmouth 21, SANDUSKY 52, Seaman 17, Youngstown 39 **OKLAHOMA**: Ardmore 44, BARTLESVILLE/TULSA 17, Guymon 53, Lawton 27, OKLAHOMA CITY 14 **OREGON**: Bend 33, Coos Bay 33, Eugene 59, Grants Pass 59, Klamath Falls 58, Lakeview 21, Medford 57, PORTLAND 24, Roseburg 14 **PENNSYLVANIA**: Erie 44, Williamsport 11 **SOUTH CAROLINA**: Georgetown 54, GREENVILLE 16 **SOUTH DAKOTA**: Rapid City 33 **TENNESSEE**: Cookeville 46, Jackson 35, Memphis 65, Morristown 31, Nashville 36, Sharon/Greenfield 2 **TEXAS**: Abilene 51, Austin 63, BEAUMONT 34, Brownwood 26, DALLAS 58, HARLINGEN 44, HOUSTON 14, Huntsville 31, Kerrville 2, Livingston 66, Lufkin 5, MIDLAND/ODESSA 42, Palestine 17, Uvaldi 15 **UTAH**: Ogden 64, Salt Lake City 36, Vernal 39 **VIRGINIA**: Front Royal 28, Harrisonburg 24, RICHMOND 65, Roanoke 49, Woodstock 10 **WASHINGTON**: Aberdeen 23, Richland 49, Spokane 55, TACOMA/SEATTLE 20, Yakima 64 **WISCONSIN**: Green Bay 68, Madison 33, Sheboygan 20 **WYOMING**: Casper 13 **COSTA RICA**: San Jose 23 **BELIZE**: BELIZE CITY 13 **EL SALVADOR**: SAN SALVADOR 25 **NEVIS**: 13 **ST. LUCIA**: 13



# THE ANTENNACRAFT FM-13

by DOUG ALLEN

Like most of the fraternity, I have been using Channel Master Probe 9s because of their reputation for superior gain. This reputation dates back to an antenna comparison written up in Audio magazine in 1983. When Ed Hanlon told me about the FM-13 three months ago, I was interested. He built one and has had very good results with it. Since then I've found out a little more about the history of the FM-13.

Don Scott, the tuner reviewer for Stereophile wanted the best practical antenna for conducting his evaluations. Also, his favorite station was in New Bedford, Massachusetts, a long way from his Middletown, Connecticut, home. And he liked to DX. I had the opportunity to talk to Don, courtesy of Ed Hanlon, who arranged a three-way conversation in March. He has used a single Antennacraft 13 for three years after experimenting with stacked Antennacraft 10's, Probe 9s, and many other antennas over the years. It's the best practical antenna he's been able to come up with.

I recently put together an FM-13 and have been evaluating it. This article summarizes my background research of antenna performance that has guided my evaluation. We know that good DXing antennas have the characteristics of high forward gain, good directivity, and mechanical or structural soundness. Antenna gain is usually compared to the imaginary isotropic antenna or the half wave dipole which has 2 dB gain over the isotropic. The dB or decibel is a logarithmic measurement of power or gain. An increase or decrease of 1 dB is about the smallest change recognizable by the human ear or practical receiving equipment. For FM DXers, "FM threshold" and "capture ratio" may complicate this a little, but are not germane to this discussion.

Gain can be easily understood from the perspective of transmitter power. Doubling power will result in a 3 dB gain. For instance, if the FM station you are listening to doubles its radiated power, your accurately calibrated S-meter would show it to be about 3 dB (or 1/2 S unit) stronger. If that same station increased its power 10 fold, its signal would be received about 10 dB stronger. When an FM station goes from 3000 to 100,000 watts ERP, the power increase is just over 15 dB.

Increasing power at the transmitting end is only one way of increasing gain. Concentration of radiated energy or received signal in some directions at the expense of others is another. Gain antennas concentrate transmission and/or reception of radio signals in a desired direction and therefore exhibit gain in that favored direction. How do we hobbyists measure antenna gain?

Not with our FM or TV receivers, unfortunately. Almost no FM or TV receivers have accurately calibrated S-meters. The R-7000, R-9000, and some other high end receivers, have S-meters which can be accurately calibrated for a portion of their received frequencies, but are not accurate over the entire range. Most of us have to put up with a "signal strength meter" or "idiot lights" that will offer some kind of relative signal strength comparison. And we usually even lack that on TV. But even with an accurate S-meter we would have great difficulty in objectively measuring the gain of an antenna.

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Precise antenna gain measurements are impossible for the hobbyist and nearly so for the best equipped antenna measuring range. This is because antenna gain measurements usually include both the direct and some reflected signal from both the main lobe and side lobes. Antennas differ as to beam pattern (beamwidth of main lobe and strength and angle of side lobes). It's the reflected signal component (that is almost impossible to control or evaluate) that skews most measurements.

At an antenna measuring range, by moving the distance between transmitter and receiving antenna only a wavelength or two (a few feet) or changing the distance above ground, the contour of the ground, or composition of the ground, you will change this relationship between direct and reflective signal reception. When the distance between a signal source and two or more receiving antennas that you are evaluating is constant, one antenna's measured gain may include reflected signal; a second antenna's measured gain may not. The antenna with less gain may show more gain under some conditions of measurement!

Accurate antenna gain measurement is so difficult (and subject to so much advertising hype as we shall see) that QST, the respected journal of amateur radio, has not allowed manufacturers to state antenna gain in their ads for over 30 years. So beware! Accurate antenna gain measurement can only be accomplished in free space! The antenna gains that manufacturers tout or evaluaters proclaim may or may not be realistic. With FM and TV antennas they usually are not.

It's not all hopeless however. We can determine the theoretical gain of simple antennas (for example, yagis) with sophisticated computer software. Well engineered antennas will approach that gain. For this entire discussion I am assuming that the antennas mentioned are well engineered. With more complex antennas which cover a large bandwidth such as FM and especially TV antennas we can perform comparison tests which are very useful if not precise measurements. In practice, it's relatively simple to compare two antennas. If they are mounted at the same height several wavelengths apart and care is given to insure that transmission line and/or relay switching losses are equal, then very useful comparisons can be made. Unfortunately, my towers do not lend themselves to mounting the antennas at equal height.

First let's look at theoretical gain. For this, I've consulted the National Bureau of Standards Technical Note 688 on yagi dimensions. Their computer studies give optimal dimensions obtaining maximum gain. Let's design a yagi for 100 Mhz and see what the greatest theoretical gain is for practical yagis. We will first design the antenna for that specific frequency and then try to account for the compromises involved in designing an antenna which covers the bandwidth of 88 - 108 MHz. As compared to single frequency yagis or even FM antennas, TV antennas are incredible compromises; one should not expect very high gain from them.

Our first antenna is the NBS 0.8 wavelength five element yagi. The 0.8 applies to boom length. One wavelength at 100 Mhz is 3 meters or 118 inches. The 0.8 wavelength antenna is 94.4 inches long. This compares with a boom length of 87.5" for the Probe 6, 120" for the Antennacraft 10, 138" for the Probe 9, and 168.5" for the Antennacraft 13. The gain of the 0.8 wavelength antenna is 9.2 dBd (gain over a dipole). Obviously an antenna with much greater bandwidth, 88-108 MHz, is going to be a compromise and have lower gain. We know the gain can't be higher than 9.2 dBd for this antenna. My guess is that it is about one dB lower.

The NBS 1.2 wavelength antenna is 141.6 inches long (compare to the commercial antennas above) and exhibits 10.2 dBd gain. Obviously, the Probe 9 has less gain, and I doubt that the Antennacraft 13 has that much gain, either! Compare these maximum theoretical gains with the 1983 Audio magazine Probe 9 evaluation (which Channel Master quotes in their catalogs) of 12.5 dB gain! This is clearly impossible, even if the reference source is isotropic rather than dipole. The Smith Aerial FM antennas are basically yagis using "J-beam" or quagi construction to increase bandwidth and gain a little. Their gain claims, like their price, are so inflated as to be laughable! So much for antenna gain claims!



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OK, back to the basics. As with power, when you increase boomlength, you increase gain on that same logarithmic scale. Double your boomlength, and your antenna gain increases 3 dB. A 1.6 wl (wavelength) antenna would yield about 12.2 dBd gain. A 2.4 wl monster antenna for 100 MHz would be 283 inches long and exhibit about 13.2 dBd gain. Another way of realizing that same 3 dB gain is to stack two antennas. Stacking two 0.8 wl antennas would yield that same 12.2 dBd gain. Stacking two 1.2 wl antennas would yield 13.2 dBd gain. In practice, you'll realize slightly less gain due to matching inefficiencies and aperture overlap.

A quad of four yagis would give 3 dB gain over a pair of stacked yagis or six dB over a single yagi. I know many hams who are using 4 or more yagis. Has anyone tried it on FM? Stacking yagis vertically narrows the beamwidth on the vertical plane. You will notice little if any increase in directivity. Stacking antennas horizontally will narrow the horizontal beamwidth, and you will notice greater directivity as you rotate your antennas. Longer boomlength antennas as compared to shorter ones will narrow the beamwidth on the horizontal and vertical planes. You will notice greater directivity.

My preliminary observations comparing one Antennacraft 13 at 38' with stacked Stereoprobe 9's at 25' average height are these. I have used my Pioneer TX-9800 signal meter for comparisons. For local stations up to about 100 miles neither antenna is clearly superior as far as forward gain and signal strength. But average signal strength of stations over 100 miles are from equal to considerably better on the Antennacraft 13. I say average signal strength because the fading patterns of the two antennas are different.

The signal to noise ratio is usually significantly better on the Antennacraft 13 because of its greater directivity. This is not just because the signal strength of distant stations is usually better on the Antennacraft 13. The noise floor using the stacked Probes is usually a little higher than with the Antennacraft 13, so even equal signal strengths results in the better signal to noise ratio with the Antennacraft 13. I attribute this difference in noise floor to the overall better gain and greater aperture of the stacked Probes. However, some of that gain is off the back and the sides where you don't want it!

As reported many times before, the Antennacraft antenna has a better front-to-back ratio. Oddly, the Probe has no reflector. Has anyone successfully added a reflector to the Probe? Doing so should improve front-to-back a lot and forward gain a little. The Antennacraft 13 is more directional than the stacked Probes; I can aim with the Antennacraft 13 to within about 20 degrees of the Denver 100 kW antenna farm (directly north of here) before overloading the Pioneer TX-9800. With the stacked Probes overloading starts about 40 degrees from the antenna farm. The Antennacraft 13 allows me a lot more DXing to the north!

Structurally, the Antennacraft 13, is a FM 10 with the front director and a few inches of the boom removed by hack saw. The front section of a second FM-10 (it comes in two sections) with the 4 directors is added to the 9 elements that remain of the FM-10 so that director spacing is equal for all directors. With a hack saw and an electric drill with 7/32nd inch and 1/4 inch drill bits it takes about one hour to construct the FM-13 from two FM-10s. When mounted with the longer 70" or 80" boom cradle that Ed Hanlon recommends, the FM-13 appears to be the structural equal of the Probe 9 despite the longer boom. I would guess that wind load is slightly greater than the Probe 9.

I am in a very poor location for determining beam pattern due to mountains in most directions. Also, the beam patterns of both antennas appear to change from low end (88 MHz) to high end (108 MHz). The stacked Probes appear to have one major null about 60 degrees from maximum forward gain. The Antennacraft appears to have two major nulls, about 90 degrees and 135 degrees from maximum forward gain. The 90 degree null is usually significantly better than the Probe null. In nulling a station to receive another on the same frequency or an adjacent frequency sometimes one antenna is better and sometimes the other is, depending on the coordinates of the two stations. The FM-13 is better in a majority of cases.

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Overall, my observations agree closely with Don Scott's, who has used the Antennacraft 13 for three years. It exhibits greater gain, directivity, and front-to-back than the Probe 9. Resultant signal to noise ratio is significantly better than the Probes. Like Don Scott, I have found that it actually performs better in my geographical and RF environment than stacked Stereo Probe 9s. But beware, this is not a scientific evaluation, and the author sells Antennacraft antennas! Confirmation of these results by others is desirable.

NOTE -- Since the above review I mounted the FM-13 on the same mast below a single Probe 9 where the lower of the stacked Probes had been. There was very little difference in forward gain, the higher Probe 9 perhaps being slightly better. Signal to noise ratio was better on the lower FM-13. Directivity, front-to-back, and beam pattern were as reported above. Since I am convinced that the FM-13 is a better DXing antenna, I have remounted it at the 42' level where it continues to work beautifully. I've taken the Probe 9's down in order to mount a 220 MHz ham antenna. Perhaps, I will remount the Probe 9's, stacked horizontally and vertically polarized to see what advantages, if any, that brings.

## \*\*\* IRCA AM-FM ALMANAC, 5th Edition 1991 \*\*\*

The fifth edition of the IRCA AM-FM Almanac is now available! This 240 page book is a must have cross reference for the serious FM and AM DXer. Within it you will find the current frequency check list, affiliates for news and talk show networks, syndicated music and religious programs, AM-FM simulcasts, station slogans, broadcasting in Canada, AM stereo, sports networks, utility stations and many articles on broadcasting. In addition, Volume V contains a section focusing on AM band foreign DXing. Each list is in frequency order and many include the FM frequencies as well as the AM (great for FM DXers).

The IRCA AM-FM Almanac is available in large comb bound or loose leaf (please state preference when ordering). Prices are:

IRCA member: US - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00  
non-members: US - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

The IRCA AM-FM Almanac is available from: IRCA, 11300 Magnolia #43, Riverside, CA 92505.

# LPTV Lindsay

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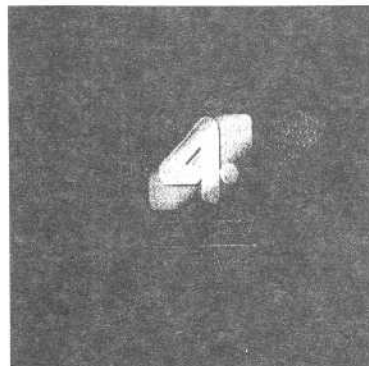
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 EDITED BY  
 David J. Nieman

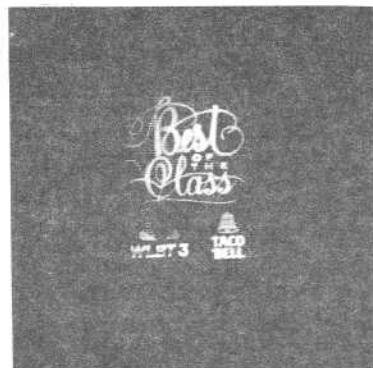
The following DX photos are from: Bill Eckberg-Dixon, Illinois. Equipment: 1966 Zenith b&w (tube type) Channel Master (CM) 1110 for VHF. CM 7 UHF dish w/t RDX Labs UA900 preamp on a 40' tower. Camera equipment: Killiman TLR 100 w/t tripod and squeeze bulb. Kodak 120 Tri-X pan 400 spd. film. 1/30 shutter speed and f 5.6.



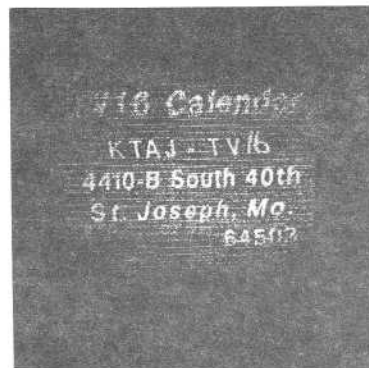
**W30AL**  
 Plano, Illinois  
 43 mile groundwave  
 seen April 27, 1990  
 at 2230 CDT  
 "testing"



**KXLY-4**  
 Spokane, Washington  
 1386 mile E-skip  
 seen May 28, 1990  
 at 0215 CDT  
 "longest 1990 E-skip"



**WLBT-3**  
 Jackson, Mississippi  
 651 mile E-skip  
 seen June 27, 1990  
 at 0830 CDT  
 "shortest 1990 E-skip"



**KTAJ-16**  
 St. Joseph, Missouri  
 311 mile tropo  
 seen July 2, 1990  
 at 0530 CDT  
 "new"

## STATION BREAK

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

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

WANTED - Schematic for a tunable notch filter for FM, so I can cope with a couple local mega-pests. All ideas would be considered.  
 Todd Brandenburg - 1337 Woodhull #6 - Topeka KS 66604

FOR SALE - Too many tuners! Pioneer TX 8500 II: this recently acquired tuner is in excellent condition with modified IF (four 150 kHz IF filters). I can look right at the Denver 100 kW antenna farm without overloading. Pioneer TX 9800: this was the top of the line! Very good condition with modified IF (four 150 kHz filters). This one has slightly better adjacent channel selectivity. The TX 8500 has slightly better dynamic range. Sensitivity is same (excellent). It's a toss up as to which is the better DXing machine. The TX 9800 might need a tune up as it drifts a little while warming up. My cost was \$110 for TX 9800 and \$99 for TX 8500 II, not counting the modifications. Your choice-- \$99 plus UPS.  
 Doug Allen - PO Box 5646 - Woodland Park CO 80866

FOR SALE - 'GRAL Radio News FM,' Italian monthly 4 page bulletin in English. Premiere issue was April 1991. (Also, remember our fortnightly 'GRAL RADIO NEWS' in Italian) Contributions are welcome now; anyone who's interested to have a sample may send 1 U.S. dollar cash to:  
 Luca Botto Fiora - Salita Torre Menegotto 42/15 - 16035 RAPALLO - ITALY

WANTED - Modification to defeat mute in the Carver TX-11. (I know there are 2 wires to cut, but which 2?). Also wanted: back editions of FM ATLAS, #'s 1, 2, 4, 7, 12. Also wanted: back VUD issues -- mostly full years from the '70's.  
 Joe Perge WB8HWF - 1575 Ditmore Stroll - Newark OH 43055 (614) 366-3827

FOR SALE - SPRING SPECIALS. Dealer prices to WTFDA members only.  
 P-7 foot parabolic UHF antenna. \$59.95 plus UPS.  
 CS-1000 150" VHF Fringe Area VHF antenna. \$53.35 plus UPS.  
 FM-10 120" Fringe Area FM antenna. \$31.20 plus UPS.  
 Low band single channel 5 element 80" boom, \$17.95 plus UPS  
 High band single channel 10 element 120" boom \$17.35 plus UPS  
 Entire Antennacraft antenna and preamp line available!  
 UPS will average \$5.00 for FM-10, low band, and high band single channel antennas, \$8.00 for CS-1000 and P-7 to most areas U.S.  
 Doug Allen - PO Box 5646 - Woodland Park CO 80866 (719) 687-3549  
 please no collect calls. Best time to reach me is weekend mornings.

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.