

# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 1992

## MORE F2 ON TV!

YES DEAR, I  
THINK IT'S F2  
FROM DOWN UNDER

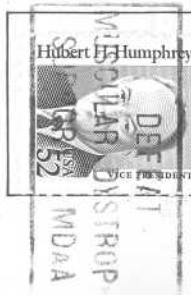


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first class mail

11/92  
WILLIAM N NOLLMAN  
35 NYE ROAD  
GLASTONBURY CT 06033

# ANARC UPDATE

## WHAT'S GOING ON AT ANARC?

It's been over a year since I submitted my last ANARC UPDATE. Over that time it looked like ANARC had expired, only to be revived on a respirator. Work had been going on to rebuild the organization with very little enthusiasm generated. Several meetings were held at various non-ANARC DX related functions with few ANARC reps bothering to attend.

Then came the letter. In November I received a note in my mail that there was a certified letter at the Post Office. I figured either I won the Publishers Clearing House Sweepstake or the State of New York was laying me off due to Budget cuts. It turns out it was from Sheldon Harvey at ANARC. (I was hoping I had won the \$7,000,000. Think of the great DX set up I could have purchased.) Sheldon starts off by complaining about the lack of enthusiasm among the clubs and their reps. At the last ANARC meeting held at the Monitoring Times Convention in North Carolina, only 4 clubs had reps (WTFDA not being one of them.). This was followed by demands. Some of the demands were reasonable. Others were a little harsh. Each club was expected to pay dues and give an annual donation based on the "benefits recieved from ANARC". Each club must run an ANARC club list in their bulletin, print the phrase "member of ANARC" on the bulletin and include ANARC information to all new members. Each club must designate a member to attend at least one ANARC meeting a year. There were 13 demands in all.

The letter brought an outcry from the clubs. An ultimatum was included- do this or get out. Most reps like myself are volunteers. We work, have time and financial constraints and family obligations. I know of no ANARC rep who is subsidized by their clubs. And what benefits have we received from ANARC over the last year? Have we gotten any new members through ANARC?

The internal politics of ANARC began to move after the letter was made public. The Executive Board ousted Sheldon and replaced him with Richard D'Angelo.

At this point in time I feel that WTFDA should remain a member of ANARC. Let's give it another year. Let's see what type of organization develops. And let's see what benefits we receive from ANARC. I've decided to take my roll as ANARC rep more seriously in 1992. I will report back to you from time to time on the progress that ANARC makes. I'd like to hear comments from the WTFDA membership. How do you feel about our membership in ANARC? Are we paying for something we may not get any benefit from or that we may not need? I want to hear the pros and cons!!

## SPRACHMAN'S CORNER

I've been able to join the ranks of the serious TV DX'ers. In September we had a new antenna installed on the roof of the house. Now I get almost everything from Hartford CT to Trenton NJ under the worst conditions. Within a few days of the installation, I was able to increase the number of stations I have received. I added Maine and New Hampshire to my list of states. I plan to start reporting my logs to the Eastern TV DX column. My wife thinks I'm crazy because I am spending more time watching television. There's a lot to watch out there.

I now pick up about 30 channels. Four channels are LPTV's. On channel 53, W53AA New York features programs in Korean, Japanese, and Chinese. W44AI Hicksville and W38AM Long Island City have an eclectic mix of psychics, Haitian programs, Arabic, Iranian and Greek programs and music videos. With W54AY Brownsville (Brooklyn), they call themselves WNYX. Often the programming is different on W38AM with much of its broadcast day made up of psychics charging \$2 a minute on a 900 number. I caught W36AS New Brunswick NJ one night. They have programs for (Asian) Indians. They seem to be on from 8 to 10 pm, Friday to Sunday. The ads are for restaurants and businesses in Northern NJ and Western Queens. I wonder what their actual signal range is? Anyone out there have any info on W36AS?

WPIX-11's translator on channel 17 W17AC has a person doing sign language during the 10 O'Clock news on weeknights. W60AI New York has the Home Shopping Spree. They do ID on the hour, usually with audio and occasionally with a video ID.

I purchased the book "Radio On Wheels" as advertised in the November VUD. It was a little different from what I had imagined. The book lists various stations along each Interstate highway. On top of the page is a map of a segment of the highway. Below is a chart of the stations listed by format, giving frequency, call letters, frequency of newscasts and special programs. The large metropolitan areas are listed in a special section.

Is the book helpful when travelling? I will find out on our next trip. If you take one or two short trips, or tend to stray away from the interstate highways, or you like small town low power radio stations, use your FM Atlas. My biggest complaints are the author's nearly automatic write-off of AM radio, stations not listed in frequency order, and city of license not being included. Finally, one improvement that the author may want to incorporate in future editions is to indicate at approximately where to start tuning to one set of stations, and where to tune out and try for the next set.

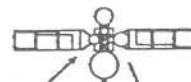
More in the future...

73's

Steven Sprachman

15 Berry Lane  
Hicksville, NY 11801-6203.

## SATELLITE NEWS



George W. Jensen  
4604 Anntana Avenue  
Baltimore, MD 21206-4220

Its that time of the month again. Changes still are coming hot and heavy. If I have erred in some items - PLEASE feel free to let me know.

Spacenet 4 is active with several items:

XPDR 6 - ID card

XPDR 18 - Delta Downs usually in MAC

XPDR 20 - LVTN - Las Vegas Television Network

this may be an eventual amalgam of The British Channel (whatever that is) - Outlaw Music Channel and others - but has been dark the last few days.

Still a few changes on C1

11 is now Encore with 1 vacant

4 is a sports channel in VC2

21 has been a full time NHK Tokyo feed from Japan

Many changes ongoing on what was F4 which is now replaced by Anik D2 with reversed polarity from F4 ValueVision is a new shopping service on one of the former Shop-At-Home transponders. The improved signal is incredible!

G6 has replaced W4

Anik E1 is on the air and operating and taking the place of D2.

CNN International and the CNN New York feed on Galaxy 2 XPDRs 1 & 5 have disappeared.

The new Intelsat has been positioned at app. 24 west and the satellite formerly there has been moved elsewhere.

Now a note to the FORUM from

RONALD PERDUE - Route #1 - Box 224 - Byron, MN 55920

Here is this months news to the Satellite TV news column in the VUD. First, let me put in my 2 cents worth on the current scrambling proliferation on satellite. In five years, I expect to see nearly every channel on satellite scrambled with the exception of Religious channels, Shopping Networks and those so-called 30 minute program length commercial channels (where the consumer is constantly getting ripped-off).

It's December 1st and still no sign of the Sci-Fi Channel. I now have serious doubt that they will ever debut on satellite! Every day I have more than a skeptical feeling that the Sci-Fi Channel is nothing more than a "sham". Why has the Sci-Fi Channel kept on delaying their start-up? Why would the Sci-Fi Channel want to keep their proposed satellite and channel where they are to start up a secret? Every day I turn on the receiver and check up on Satcom 1R or 4, even on to C1, just to see if the Sci-Fi Channel is there, but it's not.

I have written to the Satellite Source and to the National Programming Service about 3½ weeks ago to inquire about programming prices but I have never received a reply! I will write again today and hopefully will hear from them. So - see you in 30 - 73's

That's all from this end - see you in 30.

*George*  
George

# TeleVision News

Doug Smith, Editor  
14 Brookside Court  
Nashville, TN 37209-4503  
(615) 356-8305  
CIS 72777,3143  
W9WI @ W4HHY.TN

### ABBREVIATIONS USED IN THIS COLUMN:

ERP= Effective Radiated Power, in kW  
HAAT=Height Above Average Terrain, in meters  
nc= No change  
TL= Transmitter Location  
CP= Construction permit  
MP= Modification permit  
(modification of construction permit)  
\*= Non-commercial

### APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CA	29	16.2	334	KZJA	Eureka
MS	51	1494	379	WPJJ	Jackson
OH	43	204	264	WUAB	Lorain
(I suspect this ERP is a typo)					
OK	44	578	164	KGLB-TV	Okmulgee
(TL 35°43'25"N, 95°59'20"W)					
PR	18	500	563	WSJU	San Juan
SC	43	1020	316	WGSE	Myrtle Beach
(Reference says 1.02kW)					
TX	22	nc	566	KLTJ	Galveston
(TL coordinates not given, but description is Senior Rd. tower farm, where most Houston stations are)					

### CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
IN	69	10.5	167	WTBU	Indianapolis
(TL 39°50'37"N, 86°10'19"W)					
MD	13	215	267	WJZ-TV	Baltimore
(TL 39°20'05"N, 76°39'03"W)					
MS	29	923	598	WMPN-TV	Jackson
(TL 32°12'46"N, 90°22'54"W)					
NY	7	316	221	WVNY-TV	Carthage
(TL 43°57'12"N, 75°43'43"W)					
TN	16	nc	322	WMTU	Jackson

### CHANGES IN THE TABLE OF ALLOCATIONS

Ch	Was	Now
12	Ardmore, OK	Sherman, TX

(Requested by KXII-12)

### NEW STATIONS ON THE AIR

XHJUB: Ciudad Juarez, Chih.:56:  
Don't have a lot of details on this one.

KJLF: El Paso, TX: 65:  
Or on this one either.

### FORUM

Anyone know anything about a religious LPTV/translator on channel 6 in Chattanooga? I've heard it twice now on the car radio driving through. Modulation sounds about the same as WUTC-88.1, which makes me think this is a pirate FM station rather than a (legal) LPTV. Will have to remember to bring the pocket TV next time..

Another mystery contributor! "RC- El Paso, TX:" passed along the news of two new locals in his area, shown above. While on the subject of El Paso, I forget whether this was ever cleared up, but KSCE-38 there is definitely a religious station and not PBS.

Bill Nienajadly, Clifton, NJ: sent an AP article from the *NYC Daily News*;

"Japan began the world's first full-scale high-definition TV broadcasting yesterday; HDTV sets have been on sale for a year here, but only about 200 reportedly have been sold, mostly to businesses."

Apparently HDTV receivers retail for \$35,000, and HDTV VCRs for \$154,000, which probably explains the poor sales! Electronics manufacturers hope to bring the receiver cost down to the vicinity of \$7,500 within 5 years- still kinda steep for my blood..

Japanese promoters of HDTV had seen a \$15.4 billion market in Japan by the year 2000, but now are admitting those were optimistic estimates.

The Japanese HDTV broadcasts are via DBS broadcast satellite.

Matthew Keaper, St. Francis, WI: Wrote asking about reference books to look up DX stations outside his local area.

I've seen frequent references to the WTFDA's North American TV Database; this hasn't been available since I joined about 2 years ago, so I don't have one! (anyone interested in selling one?)

The reference I use is the *Television Factbook*. This is published in two volumes & intended for use by TV stations. It's

extremely expensive (I don't know how expensive- I got my used copy from a coworker at WISC-TV!) Each commercial TV station gets a page, with channel, network, visual & aural powers, antenna height data, mailing address, and a whole bunch of other information. Also included is a coverage map showing the grade A and B contours. Non-commercial and Canadian stations don't get the coverage maps, but most of the rest of the data is there.

Another good reference is the *Broadcasting Yearbook*. It's lacking the maps, the print is somewhat smaller, and it seems to be a little less accurate, but if you DX AM and/or FM, it also includes radio stations. This is also extremely expensive-- the 1992 issue is \$160!

Obviously, you have to be awfully serious about DXing to spend over \$100 on one of these references! Luckily, there are other ways to get them..

If you know someone at a TV or radio station, you might ask whether they have any old copies they're willing to give away or sell cheap. That's how I got mine..

The *Factbook* comes in two volumes; one mostly TV stations (the one you want) and the other mostly services, including cable. The volumes are sold as a set. It's quite possible that your local cable system has a copy of the "Stations" volume they have no use for & would be willing to get rid of.

Finally, many public libraries have reasonably recent copies of both of these publications.

### FCC RULES PRIMER

is on hold until next month.. the Christmas rush, y'know..

A belated Merry Christmas & Happy New Year to all WTFDA members & their loved ones. Especially to Bill Fahber, whose continuing research is responsible for most of the quality of this column. 1992 promises to be a good year for DXing; hopefully it'll be a good one in your personal lives as well. My first New Years Resolution: to actually make it to the convention this year!

News has been a little (OK, a lot..) slow this month.. Contributions, questions, information, musings, etc. are all always welcome!

73 Doug

(apologies for the ugly logo - couldn't get it photoreduced in time!)

# STATION BREAK

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

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

FOR SALE - RDX Labs UA-75 UHF balun, 0.1 dB loss, \$19. UA-60 VHF-UHF balun, 0.3 dB loss, \$19. UA-900 UHF amp, built-in balun, 1.0 dB NF, 20 dB gain, \$169. UA-700 VHF high-band amp, built-in balun, ch 7-13 BPF, 1.5 dB NF, 20 dB gain, \$149. All prices FOB KS. For complete data and ordering information, send large SASE. Jim Dietrich - P.O. Box 88 - Derby KS 67037

FOR SALE - RG-11U Commscope cable \$0.30 per foot + UPS; F-11 connectors 2/\$1.50 + UPS; P-5 UHF parabolic dish \$59.95 + UPS; P-7 UHF parabolic UHF dish \$79.95 + UPS; MXU-59 100" corner reflector UHF yagi \$50.00 + UPS. Last call for these Winegard amplifiers: CP-4800 UHF 19 dB gain/2.1 dB noise - \$75.00 + UPS; AC-4990 UHF 21 dB gain/1.2 dB noise - \$95.00 + UPS; CP-3800 VHF 28 dB gain/3.0 dB noise - \$75.00 + UPS. Also any Winegard, Antennacraft, ChannelMaster, Blonder-Tongue equipment. Certified check or money orders only. Rich Wertman - 6150 Crosby Road - Lockport NY 14094 (716) 433-0805

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





# FM NEWS

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Box 336  
Esko MN 55733-0336, U.S.A.  
Contributions earnestly solicited!

## Readers' Reports

Bob Baker sent a long review of the Day-Sequiera FM reference tuner published in the Dec. '91 "Stereophile." The thing that sets this review apart from others is that the author, Larry Greenhill, is a ham. He mentions using the tuner for DXing and he does some side-by-side comparing of it to such tuners as the Magnum/Dynalab "Etude." Both seemed to perform about the same, incidentally, but the Etude is much less expensive; the Day-Sequiera lists at \$4800, or \$12,800 with an optional "FM Reference Analyzer," which I gather is an oscilloscope-type display. Bob emphasized in the article that "connectors and coaxial cables in any home tuner installation [should be] in superb shape. Poor antenna feeds can completely defeat a powerful rooftop antenna and a top FM tuner with a supersensitive RF section." The review failed to mention how immune that tuner might be to overload from strong local stations, but it did credit the "FM Atlas" as "handy" for showing the stations.

Bill Nienajadly sent word that WZZV 95.7 Olyphant PA is on the air, op, but not known if stereo. Similarly, WDNO 95.3 Laurel DE is on with stereo and "varied lame format." Lame "denotes soft rock/AC stations with overplayed selections and poor presentations. I personally have not been using that term for a while, but others are using it more and more. I'm off the hook on that one! . . . What is your opinion of the 110 kHz filters?" [So far I have only tried one in a G-E Superadio, and could not tell if there was improvement or not; stations are not as close to each other here in the Midwest as they are in the N.E.—b.e.] Andy Bolin sent Bill a seven-page write-up on his phase box, which he sells for \$145. "I must say that price seems kind of expensive, but he does have a money back guarantee on it, so I just might go for it." A teenager in Trenton NJ reports being bothered by radio playing through his braces; Bill speculates it might be WKXW 101.5. Other questions about stations having stereo or not—WRAV 94.5 Ravena NY, WKBE 100.5 Warrensburg NY, WTTW 96.1 Margate City NJ? Gerry Turro's Pomona NY 94.3 translator now has WBAB 102.3 Babylon NY, no longer Z-100. Rich Shafton visited Bill and had 110 kHz filters installed in his JVC receiver, GE Superadio and Pioneer Supertuner III car radio. "He didn't notice any deterioration of sound quality and overall selectivity is much better. . . He had 150s in all the units before. He said he had the Philly adjacents driving in the Bronx!"

WRJT Monterey TN now on 106.9, reports Doug Smith, and he says WUTC \*88.1 Chattanooga does some of its own programming—not always relating in stereo the signal of WUOT \*91.9 Knoxville. He tried but failed to log Bahamas 104.5 on a recent trip because of FL stations on 104.3 and 104.7. "Heard KA2XXE 107.9 Columbia. Mono, pretty good signal for a considerable stretch of I-75. Columbia isn't on most maps; I thought it was down by Orlando, but your map in the Atlas showed it wasn't as good DX as I thought!"

Harry Helms says he doubts there will be a fourth edition of the book he has done with Hank Bennett, "The Complete Shortwave Listener's Handbook." I wrote him because I wanted my chapter revised if a new edition should be published. "Congratulations on the success of your 'FM Atlas'! Much deserved!" he writes.

Bruce Hall: "Pleasure to meet you for the first time at Dunkirk for the convention. Have enjoyed my little Cool Cube radio with SCS. I use it at work while at my desk. My car radio is certainly a lot sharper after Bill Nienajadly transplanted the 150 filter, although I primarily DX at home." He sent an article on a tourist attraction in Brantford ON, Icomm, which is on a fundraiser to furnish and equip with interactive displays—a "science centre, demonstrating the impact of communications and information technology on our daily lives."

Now, until I get a chance to analyze more data that have poured in, this is it until next month. Look below for "See Also," culled from December's VUD.

## See Also December VUD For

IN Austin WJAA 96.3 Stereo, ID with Seymour, Strobel, p. 13  
NY Alfred WEDT \*90.9 now Stereo; Nieman, p. 12  
NY Buffalo WGRF 96.9 still "Rock 97," but I list "97 Rock" (not "Rock 97") as the nonID for WRRK Braddock PA, "Station News," p. 10  
WUFX 103.3 rp, "Station News," p. 11  
NY Loudonville WVCV \*88.3 Stereo (back to; was mono for a long time), p. Nieman, p. 12  
OH Ada W0NB \*94.9 \$, op, "Rock 95," Strobel, p. 13  
OK Moore KMSI \*88.1 ID with Oklahoma City, Buntin, p. 15; also it has Stereo  
TX Robstown KLUX \*89.5 list as b, Strobel, p. 13  
TV character generators for identifying translators (p. 27, Smith). I'd like to find out how a DXer might acquire the decoder to tune in those elusive IDs; I understand some FM translators are also thusly identified. Any hints about building or buying such units to sleuth out the translator IDs?

## Format Changes

Formats are the same as in the "FM Atlas"

AL Northport WLXY 100.7 m  
AL Ozark WQLS 103.9 m  
AR Mountain Home KKTZ 107.5 o  
AR Stamps KZHE 100.5 k, getting an extension of time to move from 100.1  
AR Walnut Ridge KRLLW-FM 106.3 k  
CA Fresno KSKS 93.7 k, "Kiss Country"  
CA Imperial KBCD 98.3 Spanish, I  
CA Mendocino KMFB 92.7 o  
CA Ontario KRZE-FM 93.5 o, loses stereo, parallel to KFOV 93.5 Redondo Beach  
CA San Luis Obispo KZ0Z 93.3 p, but the market "might be considered the lame radio capital of the West. Stations at 98.1, 99.7, 101.3 and 107.3 fall into this category."  
CA Tracy KSGD 100.9 o [no stereo  
CO Castle Rock KYBG-FM 92.1 nt, news/sports, / CO Snowmass Village KSNQ-FM 103.9 r, same as on KKYV 98.3 Gunnison and KIDN-FM 95.9 Hayden  
FL Key West WKRY 93.5 rp  
FL Ocala WMFO 92.9 m  
FL Pompano Beach WMXJ 102.7 o  
FL Starke VEAG-FM 106.3 m  
GA Cairo WSLF 102.3 m, "Whistle"  
GA Dock Junction WKMK 105.9 r, CHR  
GA Hinesville WSKK 92.3 s, \$, "92 Jams" (from "92 Kicks")  
GA Macon WAYS 99.1 o, still "99 Ways"

GA Milledgeville WLRR 100.7 r, \$, no "Light Rock" (is AC/oldies)  
GA Springfield WQOT 103.9 k  
HI Honolulu KHFX 105.1 o, entering a timesale LMA with KOMO-FM 93.1 and AM and KPOI 97.5, under the umbrella, "Radio Marketing Associates"  
ID Caldwell KBXJ 94.1 m, "X-94"  
ID New Plymouth KZMG 93.1 r, still "Magic 93"  
ID Payette KQXR 100.3 r, "Power 100" (from "Q-100")  
IL Harrisburg W00Z 99.9 o, ID with Carbondale IN Austin WJAA 96.3 r  
IN Indianapolis WHHH 96.3 r, "Hoosier Hot 96"  
IN Rensselaer WL01 97.7 r, "Q-98"  
KS Steris Springs KMOQ 107.1 o, "Oldies 107," ID with Pittsburg  
KY Greenville WWHK 105.5 rp  
KY Irvine WCYO 106.1 k  
KY Vanceburg WKKS-FM 104.9 k  
KY Wickliffe WKGY 95.9 op, SMN classic rock  
LA New Orleans WRNO-FM 99.5 still p, but dropping Z-Rock days. "Perhaps the arrival of WZRH 106.1 has something to do with the change. I've been told by someone who claims to know the owner personally that WRNO-FM has been up for sale (so has the short wave)."  
ME Dexter WGUU 102.1 o  
ME Madison WHAA 97.5 o  
MD Federalburg WQMR 107.1 r, "Power 107"  
MA Harwich Port WFXR 93.5 m  
MA Yarmouth WXTK nt, monophonic, remove \$ listing  
MI Cadillac WKCK 107.1 k, "KC Country," ID with Traverse City. Programmed and identified with WKCK 102.9 St. Ignace MI.  
MI Hart WXCX 105.3 m  
MI Tuscola WGMZ 101.7 k, local marketing agreement (LMA) with WKMF 1470 AM Flint  
MN Fergus Falls KJKK-FM 96.5 m  
MN Grand Rapids KMFY 96.9 m  
MN Park Rapids KDCK 97.5 o, uses calls, not "StarStation 97"  
MN Thief River Falls KSRD \*90.1 rp  
MS Ellenville WJXK 102.5 o, joint programming with WKAN 101.7 Collins  
MO Savannah KSJQ 92.7 k  
MO Warranton KFVA 99.9 r, "V-100"  
MT Livingston KYBS 97.5 k  
NE Lincoln KFMM-FM 101.9 rp, KLMS AM (480 now KFMM (AM) and simulcasting. KMXX 106.3 k, "The New Mix 106." For "a day and a half 'The Blaze' with heavy metal, then b. What a surprise!"  
NE McCook KZCM 105.3 rp  
NE York KTXM 104.9 m  
NH Lisbon WLTN-FM 96.7 o  
NM Alamogordo KZEX 105.3 k, moving from 105.5  
NM Hobbs KZQR 94.1 m  
NM Los Lunas KZPY 106.3 kr  
NY Colchester WSHQ 103.5 m  
NY Danville WACZ 93.9 m  
NY Hudson Falls WEHU 101.7 m  
NY New Rochelle WRTN 93.5 mp, with "heavy metal" Saturday nights and Sunday mornings; also Spanish late weekend nights  
NY Peru WXLU \*88.3 cn, \$  
NC Clinton WMXS 107.1 sr  
NC Goldsboro WEOR 102.3 m  
NC Lenoir WHLQ 102.5 k  
ND Fargo KFGO-FM 101.9 k, "New Country 102" (rubbed out), with official ID at :55 ("Magic 102") (rubbed out)  
OH Bowling Green WRON 93.5 o, "Oldies 93.5"  
OH Canton WHBC-FM 94.1 o  
OH Columbus WBNS-FM 97.1 o, "Oldies 97.1"  
OH Geneva WEOG 104.9 o  
OH Oberlin W0BC \*91.5 s  
OK Oklahoma City KKGN 92.5 m  
OK Weatherford KWYK-FM 97.3 k, "Y-97"  
OR Hermiston KQFM 99.3 m  
OR Hood River KCGB 105.5 r, SMN

PA Danville WPGM-FM \*96.7 g, not gr  
PA Harrisburg WIMX-FM 99.3 o, now simulcast by AM  
PA Jersey Shore WRKK 97.7 op, no "Hot FM," now saying "Rock 97-7" with calls  
PA Lancaster WNCE 101.3 m  
PA Millersville WIXQ \*91.7 p, \$, but temporarily off the air due to Student Center renovations. It "was cheated out of a large chunk of its eastern York and northern Lancaster County listenership. The station that caused this interference: WJAZ \*91.7 Summerdale/Harrisburg. I find it hard to believe WJAZ is operating with only 250 watts. Their signal is incredible! I could get them in my car as far away as Shippensburg to the west. And when WIXQ is off the air I could get them fairly strong in the parking lot of the Student Center at Millersville University. . . It seems ludicrous why someone chose to put these stations on these frequencies. . . Were these stations victims of bad frequency searches or is there something here I don't understand?" [Also mentioned: WDCV \*88.3 Carlisle being cheated out of its Harrisburg area listeners because of WWEC \*88.3 Elizabethtown.]  
PA Renovo WMHU 93.1 r, "WKHL," but now silent.  
PA Saladsburg WKHL-FM 95.5 (and AM 1190 in Hughesville) most recently r, and dropping "Kool Radio," but now silent. "Radio must be in a parlous state in our area."  
PA Starview WHTF 92.7 op, ID with York-Lancaster (not with Harrisburg), "Starview 92.7"  
SC Moncks Corner WJYQ 105.5 m, "My 105" (loses "Joy 105.5 FM")  
SD Redfield KOKO-FM 103.7 kr, \$  
TN Centerville WNKX-FM 96.7 k, "Kicks 96.7"  
TN Memphis WYPL \*89.3 t, reading to the blind, fulltime, main carrier, no SCS. This station replaces WLYX which deletes. WYPL plans stereo, but it may be pseudo-stereo, since no music is broadcast.  
TX Corpus Christi KMXR 93.9 r  
TX Edinburg KBFM 104.1 rs, "Hot B-104" (from "B-104")  
TX Kilgore KXTX-FM 96.1 op  
TX Killean KBTS 93.3 ar, "B-93 Jamz"  
TX Lubbock KKIK 93.7 g, LMA with noncommercial KAMY \*90.1  
TX Mount Pleasant KPXI 100.7 k, "K-100" (480 now KFMM (AM) and simulcasting. (AC, ADR, top 40-rock, top 40, AC, country)" still "Magic 105"  
TX Robstown KMIQ 105.1 sr, no Spanish, / TX San Antonio KISS-FM 99.5 and AM still o, but entering an LMA with KSMG 105.3, "Magic 105," o, Seguin-San Antonio. Look for a common positioning statement to emerge. [uses calls, "KXOX 96.7"  
TX Sweetwater KXOX-FM 98.7 o, SMN Kool, / VA Farmville WFLO-FM 95.7 m  
VA Harrisonburg WMRA \*90.7 cj  
VA Radford WRIO 101.7 k, "Q-102"  
VA Rural Retreat WCRF-FM 95.3 m  
VA Suffolk WFOG 92.9 m  
WA Everett KSER \*90.7 pt, "always stereo. . . was only mono once or twice while getting the bugs out of their new transmitter."  
WA Seattle KNDD 107.7 rp, "107.7 The End" (stric). "Just the station Seattle's been waiting for. It's different from any other format. I'm sure glad they dropped their AC format, as there are too many in Seattle."  
WV Milton WAEZ 106.3 o, SMN Pure  
WI Green Bay WPNE-FM \*89.3 cj, \$ WGBW \*91.5 cj  
WI Monomonee WVSS \*90.7 cj, \$  
WI Plymouth WXER 104.5 m, "Extra EZ Rock" 196, WAGE, "no '98-Q"  
WI Rice Lake WAQE 97.7 m, uses calls, "Great/Waterdown WJJO 94.1 rp. "New tower, Deerfield WI, basically calls itself a Madison station—ignoring Watertown."

## On Air (Selected)

LA Jennings KJEF-FM 92.9 C2, from 92.7A  
MI Bloomfield Hills WBFH \*88.1, now on with 360 h; 55 m, d-a, "with decent stereo"

## Off Air—Or Not Yet On

CA Grover City KWCD 103.7  
FL Beverly Hills WDCS 97.1  
FL Newberry WNFO 100.5  
GA Omega WDBX 107.5  
IL Kankakee WTKC \*91.1  
IN Bloomfield WZHO 101.1  
IN Clinton WPNL \*93.9  
IN Ellettsville WZYG 105.1  
IN Knox WUVX \*89.3  
IN Salem WDHM 97.9  
IN West Lafayette WBAW-FM 101.3  
IN Winamac WOTD 100.1  
LA Folsom KGZC 104.9  
MI Novi W0VI \*89.5  
MI Oak Park WOPR \*90.3  
OH Lorain WSNM \*89.1  
PA McConnellsburg WEMX 103.7  
PA Sharpsville WAFX 95.9  
TN Manchester WFTZ 101.5 [to 94.9  
TX Canadian KRBC 103.1, preparing to move/ VA Culpeper WPVB \*89.9  
VA Hot Springs WBHA 107.1  
VA Waynesboro WFWA \*90.1  
WV Phillipi W0AB \*91.3  
WV Pocahontas WTUN 98.7  
WV White Sulphur Springs WXMD 93.3  
WI Brilliance WEZR 103.5  
WI Brookfield WRIT 106.9  
WI Lamira WFDL 106.7  
WI Mayville WTRM 98.7  
WI Mishicot WFMV-FM 94.7  
WI New Holstein KFKA 93.1  
WI Tomah WBOG 96.1

## Deletions

AL Huntsville W292CD 106.3, per station request [WLXY 100.7 Northport  
AL Tuscaloosa W261AD 100.1, because of new/ AK Bethel K8TB 98.3  
AR Marianna KVNZ 106.9, an unbuild CP  
GA Sparta WHAN 102.7, an unbuild CP  
IL Oregon WLFW 106.1, CP forfeited  
KS Downs KWNL 94.1  
MI Hancock WTHW 98.7, CP forfeited  
MN Roseau KRMB 102.1, CP forfeited  
ND Wishek KMVC 100.3, CP forfeited  
OK Lahoma KGPD 95.7, an unbuild CP  
PA Camp Hill W285FA 104.9—was once licensed  
PA Carlisle W220AH \*91.9, displaced by WJAZ  
PA Harrisburg W211AA \*90.1  
PA Millersburg W215AA \*90.9  
TN Memphis WLYX \*89.3—equipment given to WYPL 89.3  
UT Richfield KYAY 97.5  
VA Lawrenceville WHFD \*91.7  
WI Sturtevant WZXA 104.7  
PQ Kawachikamach CFNM 89.3  
"I'll be traveling soon and send you any info I hear along the way. Love the Atlas and FMedial"

## SC Services, 67, 92, 102.271 kHz

Symbols are as in the "FM Atlas"  
AR Conway KMJX 105.1 no TY, 92  
CA Pasadena KPCC \*89.3 TE, 67, RSI, Radio Sedyae Iran; Filipino 92  
CA San Diego KSDS \*88.3 no TY, 92  
KCBQ-FM 105.3 TE, 67, Farsi (RSI)  
CA San Francisco: "We are on SCS [KALW \*91.7], but would like to buy an FM station. What do they cost? . . . With FM stations so expensive, what about AM?" I suggested he consider running an AM station along with an existing SCS. That way, current listeners wouldn't be alienated and the SCS could fill in coverage gaps if a lower-powered AM were acquired, which might go directional or reduce power at night.]

MAILING ADDRESS:  
PHOTO-NEWS  
12284 NICE ROAD  
AKRON NY 14001-9529

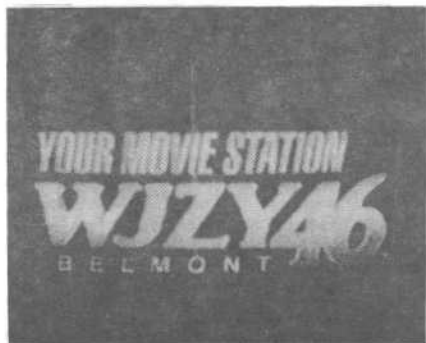
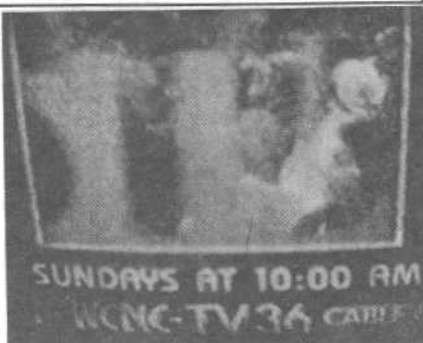
JANUARY 1992

Bill Nienajadly - Clifton, New Jersey is are first reporter for 1992. Bill sent in a foto of his DX set-up. From top to bottom; on left is his Winegard AC-4990 power supply, next to that is a Radio Shack rotor control. Next is a Teknika TVC22 TV tuner. Below that a Fanon PRO 120 public address audio amp for his Pioneer TX-9800 FM tuner Bill modified with (2) 180khz & (3) 150khz IF filters. For recording his TV DX he has a Emerson VCR model 765. All this is setting on a Samsung color TV; on screen is "channel 22 from Annapolis MD under normal troposcatter conditions at 189 miles! My farthest viewable TV station under near dead conditions!" Not seen; Radio Shack U-120 UHF antenna and one of their 6 element FM antennae + 10db postamp.

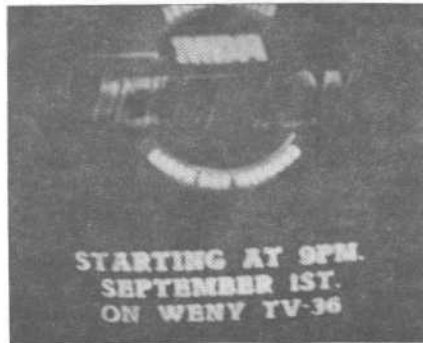


Just a short drive down the Garden State Parkway is Joe Fela's South Plainfield, NJ home, yes the one with the Antennacraft P-7 dish & Winegard PA-4975 preamp on the roof. That must be Joe at the controls of his G.E. color monitor. As he goes thru the channels we can see:

WCNC-36  
Charlotte North Carolina  
516 mile tropo  
seen August 26 1991  
at 0558 EDT



WJZY-46  
Belmont North Carolina  
515 mile tropo  
seen August 26 1991  
at 0559 EDT



WENY-36  
Elmira New York  
157 mile tropo  
seen August 27 1991  
at 0715 EDT

"not long, but this one doesn't make it down here too often via true tropo"

DAVE

Bill Nienajadly  
PO Box 2999  
Clifton NJ 07015-2999  
1-201-478-3044

JANUARY 1992 3 Month log cutoff deadline 2/5/92

Happy Nue Year everyone! Lets look forward to 1992 with hope of much DX and other goodies. In the meantime, this column is still dealing with 1991 and there is DX to report out there ...where? How about December E-skip! As Im typing up this column on 12/6/91 I have heard about super bang up opening late November & on Dec 1st. Hopefully we'll get some reports on those dates which I heard happened in the South with a MUF at 108+. In the Northeast there was one opening on Dec 2nd with a MUF of ch 6+. Rich Shaften of NJ logged ch 2 Denton TX on 12/2.

Jeff Falconer Box 63 Clinton ON N4M 1L0 Icom R7000, 25 el log periodic @ 25 ft with rotor ALL TROPO LOGGINGS

8/25 0428 WENS 10 OH 263	8/25 0521 WGN 9 IL 333	11/17 1200 WJIN 59 IN 353	11/17 1230 WMB 40 IN 353
0429 WEHS 60 IL 334	8/30 0116 WANE 15 IN 256	1201 WME 46 IN 275	OVER Local CBLN
0433 WVT 18 WI 324	8/31 0211 WISAM MI 214	1203 WGBA 26 WI 327	1231 MSJV 28 IN 276
0436 WME 46 IN 275	// to WME-46	1223 WFWA 39 IN 256	1254 WJFI 18 IN 344
0452 WMB 40 IN 353	0213 WVT 18 WI 324	1225 WPTA 21 IN 256	1258 WDSU 34 OH 249
0457 CIII-27 ON 166	0225 WDUJ 58 WI 324	1229 WANE 15 IN 256	1300 WYFI 20 IN 352
0501 WKOI 43 IN 326			

An above average Tr opening for November and that's been it. Only one new TV logging via ES this season! 73, Jeff

Ed Phelps Rt 2 Box 266 Benton KY ALL TROPO LOGGINGS (Phoned into ETVDX-BN)

11/22 WAIQ 26 AL 330 WBIQ 10 AL 248 WCIQ 7 AL 273 WGIQ 43 AL 390 WALB 10 GA 458- all in evening via tropo  
Also Atlanta, Huntsville, Birmingham Total Stations 444

2 WCBS

(Editor corrections, WPSD is on ch 6 not channel 7, as I stated last month. Sorry about that -BN)

Tom Bryant 849 Todd Preis Dr Nashville TN 37221

ALL TROPO IN NOVEMBER 1991

13 0026 WCIU 26 IL 405	13 0030 WYCC 20 IL 407	14 WBRC xltr Anniston	22 2354 WMOA 32 AL 255
WFLD 32 IL 407	0041 WQWR 50 IL 405	22 1841 WLIQ 41 AL 259	23 0101 WCOV 20 AL 257
0027 WNSN 44 IL 407	14 0059 W29AD AL 173	2322 WXXV 25 MS 385	23 0133 WELF 23 GA 155 TENT

The only relogs are stuff that I don't normally get: for example, the 3 repeats from Chicago on 11/13. That was an unusual duct with no other IL, WI, or Northern IN activity. At the same time, almost all Northern AL, MS and GA reg-ulars were good to s/f. (Selective ducting-BN). The new P-5 parabolic continues to turn in exceptional performance. Hope 1992 is a Happy DX New Year for all WFDAs! Tom (Tom did a great job with the WFDAs Convention Video tape-BN)

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

Dayton 12" B & W, UHF- Radio Shack 4 Bay, twin lead bowtie, 15-1104 VHF UHF amp (used for UHF only) VHF: Radio Shack rabbit ears 15-235 all directions/ VHF channels, Building's VHF antenna North East direction only, for channels 2,3,4,5,8,9,10,11,13

Eric Voytko wrote that the UNID-2 I saw on 8/11/91 could possibly be KTVI. Thanks Eric,



8/1 Tr 2010 WSET 13 VA	8/7 0810 to 0929 SC 19	10/1 Tr 1946 CCI 0/MW60	
8/5 Tr 0751 WQEX 16 PA	Charlotte 18,36,46	10/19 Tr 0208 NC 16-s/off	10/25 Tr 0559 New calls
8/7 Tr 0028 W8AA WV	Tr 1000 WJPR 21 VA	0238 NC 28-s/off	was WPTF now
0117-0300 NC 16	8/15 Tr 1016+WQEX 16 NC	0300 NC 40-s/off	it is WRDC
WYED-17,22,40, 13+	8/17 BR 0659 RI 64 ?	0327 NC 40 3/4 cb	11/6 ES 2200 KJRH 2 OK
VA WSET-13,29	WLTG 55, NC 45	0613 WPOE 15 SC	MUF 3
GW 0743 WDCA 20 off	NYC 41, CT 53?, 30	0828 WIOAH VA	11/8 AU 1840-1930 ch 2 cci
until 1905	8/22 Tr 0949 UNID 17z	(ACTS)	11/21 ES 2208 2+z
Tr 0746 SC 15 gd-vgd	10/1 GW 1905 WYVN 60 W	0916 WUNJ 39 NC	11/29 ES 1920 2z, - +
NC 11,22	Martinsburg Fox 1st day	10/24 Tr 0538 WPOE 15 SC	12/2 ES 1800 KDCT 3 OK
0800 UNID 20	on the air	10/25 Tr 0559 WRDC 28 NC	KFDX 3 TX
			1830 KBTX 3 TX

William R. Hepburn 35 Lockwood Rd Brampton ON L6Y 4T7 -JVC HR-D630U VCR w/indoor VHF dipole & UHF 4-bay

Oct 91

Nov 91

ALL TROPO LOGGINGS

18 2315 CBOT5 33 ON 148	17 2228 WDMU 14 MI 250	17 2347 CKC04 11 ON 119	18 0040 WMMI 17 MI 295
McArthur Mills	Mc Pleasant	Muskoka-Haliburton	Grand Rapids
w/CBC Ottawa	2236 WSPH 66 MI 205	video only w/CHD	s/off 0203
28 2334 WNUJ 16 IN 355 \$	Flint-Saginaw	//CKCD 13	1000 CJOH 13(PQ) 225
	Bay City s/off 0105		Ottawa ON-Hu11 w/CKCO

Dude from Joisey PO Box 2999 Clifton NJ 07015-2999

12/2 ES 1800 MUF FM...12/8 ES MUF 4 @ 1700, 12/9 ES 1700 MUF 2 weak! gone by 1745, 12/12 Trops to the South 200 mi.

# WESTERN TV-DX

January 1992

Fred McCormack  
Box 17860  
St. Paul MN 55117-7860

Deadline: 02-06-92  
Cut-off: 11-01-91

November produced an unusual amount of E skip as well as F2. E skip was reported on November 5, 7, 9, 10, 22, 24, 28, 29 and 30. F2 was reported on October 29 and November 8, 9, and 19 by Dyer. Some nice tropo was also caught, particularly by Draeb.

CORRECTION TO LAST MONTH'S CORRECTIONS - This distance from Bill Draeb's house to CHSJ-4 is 1067 miles, not 1230 miles or 1350 miles. I hope I got it right this time!

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

William Draeb, Ellis St., Rt. #2, Kewaunee WI 54216 (414-388-2350) CST

Local WPNE-38 was off the air from November 9-14. I talked to someone who works for the station, part time, at UWGB and he said the "transmission line fried." About 800' of transmission line (from the transmitter to the 800' level) had to be replaced.

November 1991							
13 tr 1730	KXLI 41 MN 310 (HSC)	17 tr 0230	WYTV 33 OH 420	22 tr 1828	WDKY 56 KY 480		
	KSAX 42 MN 374	0545	WNEO 45 OH 405		( See Note # 3 )		
	W48-- 48 ??		WEAO 49 OH 380		WMSY 52 VA 605		
	(// WHWC-28)	0724	WFMJ 21 OH 420		WKYT 27 KY 473		
2122	Iron Mtn Us 100	0725	WPGH 53 PA 480	1840	WLEX 18 KY 473		
	Lac du Flambeau		Cincinnati Us400		WYTV 33 OH 420		
	Us 155	0908	WDRB 41(IN) 437	1841	WKON 52 KY 437		
16 tr 1741	KXLI 41 MN 310	1632	WDRB 12 OH 400		WQEXt 16 PA		
	KSAX 42 MN 385		WPTT 22 PA		WDRB 41(IN) 437		
	KRWF 43 MN 395		WDRB 41(IN) 437		WPBO 42 OH 461		
	1751 KVRr 15(MN) 450		CIC018 18 ON 325	1848	WQAT 53 OH		
	K58BS 58 MN 285		CBLFT9 53 ON 325		WPGHt 53 PA		
	(Minneapolis TBN)		WKBN 27 OH 420		CII29 29 ON 290		
1945	Central IL Us	1729	CII29 29 ON 290		(Diag. CCI-WGTU)		
	(Snow free)		WUHQ 41 MI 165		WFLIt 53 TN		
	WEIU 51 IL 345	19 tr 2032	(With WOTV news)		CBLN 40 ON 325		
	KAWB 22 MN 365		KXLI 41 MN 310		CBLN4 45 ON 307		
	W57AR 57 WI 145	21 tr 1955	KSAX 42 MN 385		CBLFT17 68 ON265		
	(Sayner WSAW-7)		W40AK 40 MI 110		CITY2 31 ON 350		
	W45AJ 45 IL 165		(Muskegon CHA)		WJET 24 PA 405		
	(Rockford CHA)	22 tr 1828	( See Note # 1 )		CIC018t 18 ON		
2035	WKEF 22 OH 365		WSBN 47 VA 580	1916	WNED 17 NY 445		
	( Over WSBT-22 )		( See Note # 2 )		WOSU 34 OH 395		
	WCET 48 OH 400		WEMT 39 TN 635		( See Note # 4 )		
	WKON 52 KY 437		(Snow free)		WKPT 19 TN 620		
	WIII 64 OH 400		WIII 64 OH 400	1923	WSFJ 51 OH 395		
	WCVN 54 KY 407		W25AI 25 OH 400		unid channel 51		
2115	WTVQ 36 KY 473		(Cincinnati CHA)		( See Note # 5 )		
	WKLE 46 KY 473		WCET 48 OH 400	1930	WGGN 52 OH 315		
	WXIX 19(OH) 400		WCVN 54 KY 407	2023	WKLE 46 KY 473		
	KVRr 15(MN) 500		WKON 52 KY 437	2103	WGRBt 34 KY		
	(Stronger)		WNEO 45 OH 405		( See Note # 6 )		
	KAWB 22 MN 365		WTVQ 36 KY 473	24 Es 1900	WPBt 2 FL		
	( KAWB-KAWB ID )		WYMT 57 KY 550		WYVt 4 FL		
2150	Mp1s 17,23,29		WKSO 29 KY 520		WEDU 3 FL 1192		
	(Not in earlier)		WKHA 35 KY 550		unid channel 5		

Note # 1 - Live "TV BINGO"; station off frequency slightly. Had to adjust horizontal hold to lock in picture.

Note # 2 - "Blue Ridge Public Television" - snow free - ID slide with WBRA-15, WBSN-47, WMSY-52.

Note # 3 - No sign of WYIN-56 or WJYS-62.

Note # 4 - Carrying WNDU-16 weather delayed about one half hour.

Note # 5 - Same direction as WSFJ; zero offset to WSFJ.

Note # 6 - Rain getting heavier; DX falling: mostly gone at 2230.

Western TV-DX

January 1992

John Ebeling, 6843 County Road 47, Alborn MN 55702 (218-345-6718)

CDT/CST

## Equipment:

General Electric 19EC0740W (1980) - electronic tuning (no fine tuning). Antennas in the attic - one pointed south towards Minneapolis/St. Paul and the other aimed southeast towards Duluth - selection via knife switch. Neither antenna is a DX type.

## September 1991

1 Es 0003 CFCN 4 AB 1010  
unids chs 2-6  
0035 CKKX 2 AB 1015

2 Es 0100 CKKX 2 AB 1015  
(In until 0135 )  
8 Es 0830 unid channel 2

November 1991  
29 Es 1800 unids chs 2-3  
KPRC 2 TX 1215

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

CST

## Equipment:

KTV 12" 1210A b&w, Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

## October 1991

1 Es 1958 WSAV 3 GA 1040  
2036 WWAY 3 NC 1235  
14 tr 0729 KADN 15 LA 385  
0755 K21DM 21 LA 395  
(Lafayette VJN)  
0759 WLPB 27 LA 445  
18 tr 0004 KLAX 31 LA 385  
0102 KBMT 12 TX 285  
0959 WVLA 33 LA 440  
20 Es 1128 WCBF 2 SC 1140  
1159 WWAY 3 NC 1235  
29 F2 0834-0942 unids ch 2  
1716-1833 unids ch 2

## November 1991

5 Es 1458 WSAZ 3 WV 1125  
1600 WSJK 2 TN 1010  
1616 WBTW 3 NC 1090  
WFMY 2 NC 1175  
7 Es 0928 KDLO 3 SD 1070  
0929 KUSD 2 SD 945  
8 F2 1849-2020 unids ch 2  
2315-0000 unids ch 2  
9 F2 0000-0045 unids ch 2  
Es 0230 WPBT 2 FL 1150  
1557 KOTA 3 SD 1040  
1651 KTWO 2 WV 1010  
1700 KXMA 2 ND 1215

9 Es 1949 XHBC 3 BN 1025  
2059 KUTV 2 UT 1085  
2154 KVBC 3 NV 1050  
2155 KTVK 3 AZ 835  
19 F2 0925-1054 unids ch 2  
1110-1122 unids ch 2  
1635-1700 unids ch 2  
22 Es 1142 KGAN 2 IA 960  
28 Es 1653 KDLO 3 SD 1070  
1659 KGFE 2 ND 1290  
30 Es 1801 KGAN 2 IA 960  
1825 WCIA 3 IL 930

A fair amount of E skip in October-November. K21DM had a jukebox format - and lucky to get with local 20 LPTV and other channel 23.

The big news was, of course, the F2 events. Many minutes of these were caught with the VCR. A 4-head machine and some video processing software might be able to extract a lot more.

The November 8-9 events were due to the severe magnetic storm. The two later episodes there had "pulsing" effects, perhaps indicating some TE involvement.  
73, Pat, WASIYX

Dave Sinclair, 6565 Brooks Street, Vancouver BC V5S 3J6

PDT/PST

## Equipment:

Archer antennas: VHF-FM model 15-8654 on Channel Master Crown rotor 5 feet above roof. UHF model U-120 10 feet above roof. Archer amplifier model 15-1113, adj. 10-20 dB. Both mounted on separate chimneys (straps). Electrohome VCR VHS, Sony colour TV model KV1215, Philips converter model CT3600 which has separate inputs for cable, VHF and UHF, stereo.

## October 1991

9 Es 2130 \$KVBC 3 NV 996  
10 tr 2100 K68DL 68 WA 111  
(Seattle TAB)  
K53AZ 53 WA 185  
(Centralia KIRO-7)

14 tr 0200 KBSP 22 OR 288  
(KTZZ-22 off)  
19 tr 0300 \$KATU 2 OR 252  
(CBUT- 2 off)  
20 tr 0400 KATU 2 OR 252  
(CBUT- 2 off)

November 1991  
8 tr 1500 K47-- 47 WA  
(Unknown KOMO-4)  
10 Es 0715 \$KVBC 3 NV 996  
28 tr 1700 KPDx 49 OR 252  
( See Note )

Note - Received with Knowledge Network rebroadcaster off air due to storm.

Channel three received over CBUT-2 rebroadcaster at Chilliwack, British Columbia, 56 miles east, 590 Watts erp. This rebroadcaster stays on all night with a colour bar and is fed by CBC North.

Best wishes for 1992 to all!

Thanks to all who reported in 1991. Good Luck in 1992 and keep reporting!



Not much to report this time, not much trop, though there was some surprise e-skip early in November, and there has been plenty of aurora. Let's hear from you! One note: The CCI-Unids column is now done by Matt Sittel. Please send your unIDs to his column instead of here. I am glad to see that column back; I know many enjoy that column. Happy New Year!

## 1991 E-skip report.

The top 20 e-skip openings in 1991

\*note: The late season opening in November is not included.

Reports taken from Northern and Southern FM DX

DATE	TOTAL	rep	avg	MUF	high
1.JULY 1	491	28	17.54	144	64
2.JULY 19	442	27	16.37	209	43
3.MAY 29	272	29	9.38	107.9	30
4.JUNE 3	159	7	22.71	108.5	52
5.JULY 30	144	12	12.00	107.7	38
6.JULY 8	143	10	14.30	107.9	38
7.JULY 18	142	16	8.88	144	36
8.JULY 31	122	11	11.09	107.9	32
9.JUNE 29	116	15	7.73	106.1	20
10.AUGUST 23	113	9	12.56	107.9	26
11.JULY 20	111	16	6.94	107.5	25
12.JULY 2	100	13	7.69	107.5	24
13.MAY 19	93	5	18.60	108.3	42
14.JUNE 12	78	5	15.60	105.9	25
15.JUNE 30	66	11	6.00	103.3	13
16.JUNE 20	63	9	7.00	105.5	13
17.JUNE 8	60	14	4.29	107.7	28
18.MAY 20	37	4	9.25	107.3	20
19.JUNE 16	37	9	4.11	107.3	8
20.JULY 22	33	10	3.30	97.1	8
TOTAL (60 days) 3298			avg of 54.97 reports per skip opening, average MUF: 106.0 Mhz		

### Key:

total = total number of loggings reported that day

rep = number of DXers reporting noting skip that day

avg = average number of loggings per DXer that day (total ÷ rep)

MUF = maximum useable frequency reported that day

high = most loggings reported by a single reporter that day

### Breakdown by month:

	no of days	total for month	avg
JULY	18	1828	101.56
MAY	9	483	53.67
JUNE	22	782	35.55
AUGUST	8	199	24.88
SEPTEMBER	3	6	2.00

(There have been some October and November openings not counted here)

### Breakdown of MUFs:

	no. openings	percent reaching this level
up to 108.0 +	5	8.33%
up to 107.9	10	16.67%
up to 105.1	32	53.33%
up to 100.1	40	66.67%
up to 98.5	44	73.33%
up to 96.1	52	86.67%
up to 92.1	58	96.67%
up to 90.1	60	100.00%

## Happy New Year

STEVE SOLOMON - 2 BENNETTWAY #24 - NEWMARKET, NH 03857 (603) 659-3470  
Equipment: Yamaha TX-9300 tuner with 2180 khz filters, ALL loggings are new.

### JULY 1991

2 Es  
1000 KKXL 92.9 ND Grand Forks  
1035 WOW 94.1 NE Omaha, country  
1037 KXLP 93.1 MN New Ulm, ACR o/WMGX  
1042 KDWZ 93.3 IA Des Moines, CHR, Z-93  
1045 KTSB 93.9 IA Sioux Center  
1047 KQWB 98.7 MN Moorehead, Q98, AOR  
1100 KTCZ 97.1 MN Minneapolis, Cities FM  
1100 KISD 98.7 MN Pipestone, Sat. CHR  
1124 KXRA 92.3 MN Alexandria, AC  
1135 KXCK 99.7 MN Marshall, AC  
1159 KSDN 94.1 SD Aberdeen, AC

### 4 Tr

0115 CFGL 105.7 PQ Laval, WVBF off the air  
0121 WHMX 105.7 ME Lincoln, Hot Mix 106  
CHR, WVBF off the air  
0128 WWKX 106.3 RI Woonsocket, Kicks 106  
CHR-dance, over everything

### 5 Es

1035 WOVV 95.5 FL Ft.Pierce, CHR  
1057 KWNC 96.5 SD Sioux Falls  
1057 WHTQ 96.5 FL Orlando, Q96, AOR  
1120 WWLV 94.5 FL Daytona Beach, Love 94

### 5 Tr

1145 WCIB 101.1 MA Falmouth, Lite 102,  
ac, heard over WPOR  
1146 WQRC 99.9 MA Barnstable, beautiful

### 8 Es

1032 WOMC 104.3 MI Detroit, oldies, during  
thunderstorms  
1100 WKYQ 93.3 KY Paducah, country

### 21 Tr

0317 WRK1 95.1 CT Brookfield, AOR, I-95  
tight squeeze (WHOM & WCGL?-gc)  
0330 KQMF 94.3 PQ Montreal, CHR, Star 94  
is off the air, French  
0350 WQGN 105.5 CT Groton, WJY off the  
air, Q105, CHR

### 30 Tr

0000 WMDK 92.1 NH Peterborough, AC  
2340 WBLQ 99.3 RI Block Island, AC  
2343 WILI 98.3 CT Willimantic, I-98



### AUGUST 1991 DX

11 Es  
1143 WLLZ 98.7 MI Detroit, Detroit's Wheels  
AOR, only 640 miles  
The following logged in car in Exeter, NH  
1325 WXBM 102.7 FL Milton,  
1330 WAPW 99.7 GA Atlanta, Power 99, CHR  
1335 WFOX 97.1 GA Gainesville, Fox 97, ac  
1340 WAFX 95.1 AL Prattville, The Fox, AOR  
1349 WSKZ 106.5 TN Chattanooga, KZ 106.5  
1358 WZZK 104.7 AL Birmingham, country  
1425 WVMY 105.1 TN Waverly, V-105, country  
1430 unID 105.3 "The All New Q-105.3"

### 15 Tr

2315 WKSS 95.7 CT Hartford, Kiss 95.7, CHR  
and dance, WZD off the air  
16 Tr 0300 WYHT  
105.3 OH Mansfield, Y-105, CHR

### 26 Tr

0129 CFRQ 104.3 NS Halifax  
0140 CFGM 103.9 NB Moncton  
0152 CBH 102.7 NS Halifax, divers.  
0155 WBAZ 101.7 NY Southold, Lite on the Bay  
0200 WFAL 101.1 MA Falmouth, F-101, sat CHR  
0211 CIOO 100.1 NS Halifax, C-100, AOR  
0300 WCME 96.7 ME Boothbay Harbor,  
country over WWEM

0313 WWMJ 95.7 ME Ellsworth, oldies o/WZD  
0324 WPBC 92.9 ME Bangor

### SEPTEMBER 1991 DX

10 Tr  
0324 WFME 94.7 NJ Newark, Family Radio  
0324 WRKS 98.7 NY New York, 98.7 Kiss FM  
11 Tr  
1431 CIRO 99.7 PQ St. Georges de Beauce  
Country, French

### 17 Tr

2334 WQHT 97.1 NY New York, dance-CHR  
19 Tr  
0005 WEBS 107.9 CT Westport, Wee Bee 108  
adult contemporary, over WXKS

### 23 Tr

0040 WPKX 97.9 CT Enfield, Kicks 97.9,  
country, WWGT off the air

### 30 Tr

0100 WMKS 93.5 VT Springfield, Kiss 93.5  
satellite adult contemporary

### OCTOBER 1991 DX

### 1 Tr

0010 WTSL 92.3 NH Hanover, ac  
0100 WFRD 99.3 NH Hanover, AOR

### 10 Tr

0200 CFCA 105.3 ON Kitchener, easy, 490 mil.

STATION NEWS: In Pittsburgh, 104.7 is now religious, and was heard as WORD. Thanks Dave Nieman. Over in Eastern Pennsylvania, WAEB-FM Allentown (104.1) is still top 40, but it now using the slogan "B104", dropping "Lazer 104.1". In that general area, WJRZ 100.1 Manahawkin changes to a classic hits format. In the Albany area, WRAV Ravena (94.5) is on the air with an adult contemporary format, "Mix 94." Thanks Bill Nienajady. Other NJ news: WTTH Margate City (96.1) is on the air, urban adult contemporary. Thanks Bob Smolarek.

**DAVE NIEMAN-12284 NICE RD-AKRON NY 14001-9529**  
 Equipment: Carver TX-11 modified IF, CM Stereo Probe 9 at 30'. Alliance HD-73 rotor and RG-11 coax.  
 New call [KKKK].

**NOVEMBER 1991 DX**

**3 troposcatter**  
 1349 WAFX 106.9 VA Suffolk, "106.9 THE FOX"  
 op\$ 442

**5 troposcatter**  
 0821 WRVL 88.3 VA Lynchburg, ID, g\$ 394  
 Is WBYN new or format change? Dave

**19 troposcatter**  
 1000 [WORD] 104.7 PA Pittsburgh, ID, g\$ 197  
 ex. WEEZ, WYDD & WPGH.

**DECEMBER 1991 DX**

**2 troposcatter**  
 1409 WBYN 107.5 ?? ???? ,call, g\$ ???

Delaware County's  
**1st**  
 Radio Station



Box 58  
 Walton, NY 13856  
 (607) 865-4321

**DAVE NIEMAN-HO STA GEH RD-ROCK CITY NY**

Equipment: Technics ST-8080 modified IF, Antennacraft FM-10 at 15'. Radio Shack rotor, RG-6 coax.  
 All new to Rock City log.

**NOVEMBER 1991 DX**

**17 tropo**  
 1105 CKNX 101.7 ON Wingham, "FM-102", r\$ 183

**30 tropo&scatter**  
 1600 WAER 88.3 NY Syracuse, ID, j\$ 134  
 (W SBU off)

2028 WNF A 88.3 MI Port Huron, call, g\$ 209  
 (W SBU off)

**DECEMBER 1991 DX**

**1 troposcatter**  
 0233 WJMO 92.3 OH Cleveland Heights, "Jammin  
 -92", s\$, (WRRN off) 154

0259 WRKT 100.9 PA Northeast, "Rocket-101"  
 r \$, (W MXD off) 73

0321 CFLY 98.3 ON Kingston, "FLY-FM",  
 r m \$, (W QRT off) 183

Dave

**WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON L6Y 4T7 (EST)**

Equipment: modified JVC R-X330U w/indoor dipoles

**NOVEMBER 1991**

**1 AU**  
 1756 unids (10-15 db)

**8 AU**  
 2100 WPLM 99.1 MA Plymouth T  
 (calls tent. heard)

2114 WMYX 99.1 WI Milwaukee 415  
 (10 db, state # 20)

2121 WYLL 106.7 IL Des Plaines 430

2355 unid 94.7 USA ?? T  
 (SRN, Star Radio Network, 10 db)

**9 AU**

0002 WRVL 88.3 VA Lynchburg 445  
 (state # 21)

0029 CJMV 102.7 PQ Val-D'Or (FF) 325

**10 TR**  
 1254 WONE 97.5 OH Akron- 190  
 Cleveland-Canton

**19 TR**  
 2341 WFMK 99.1 MI East Lansing- 245  
 GrandLedge-Lansing

Comments: More Auroral DX! More garbling. More noise. More tests of patience.  
 Much like trying to understand what someone 300 feet away is  
 saying...challenging but fun.

73s, Bill

**STATION NEWS:** A new regional satellite network has been established in the Northeast U.S., called  
 NESN: North East Satellite Network. Programming is adult contemporary and in the evenings. So far  
 these FM stations have reportedly signed on: WWSE 93.3 Jamestown, WKPQ 105.3 Hornell, WFLR  
 95.9 Dundee, WYOS 95.9 Liberty, WENY 92.7 Elmira, WTOJ 103.1 Carthage, WKGW 104.3 Utica (all  
 in New York State), WDNO 95.3 Laurel, Md. is now on the air...WROU 92.1 West Carrollton (Dayton),  
 Ohio is expected on soon with an urban format, "U92" Speaking of Carrollton, WKFK 100.5 (Michigan)  
 is expected to go to top 40, WTCF, "The Fox". WTRV 94.3 is // WAIR 92.5 in Upper Michigan, oldies.

**JERRY MONROE - 3135 FALLS ROAD - MARCELLUS NEW YORK 13108**

Equipment: JVC tuner (two 110 khz IF filters), 10 ele FM yagi, Various other antennas, traps, filters  
 amplifiers, etc!

**SEPTEMBER 1991 DX**

**5 Tr**  
 1500 CKAT 101.9 ON North Bay, on car radio  
 1800 CFRC 101.9 ON Kingston, car radio again  
 solid signal.

**18 Tr**  
 2030 WPAC 92.7 NY Ogdensburg, the real hits"  
 2035 WYUT 92.7 NY Herkimer not on the air!  
 2155 WKOJ 92.7 NY Middletown, "92.7 KOJ"  
 Hard rock, tough reception

**OCTOBER 1991 DX**

**2 Tr**  
 0445 unID 88.9, who is this all night BBC mono  
 signal? (Jerry, I think I read somewhere that  
 Auburn does this. Can anyone confirm?-gc)

**7 TrS**  
 1200 WAWZ 99.1 NJ Zarepath, wx for Cent. NJ

**8 TrS**  
 1040 WPLR 99.1 CT New Haven, PLR, Bowie

**WNJA FM 89.7**

Well, seasons greetings to all, hope conditions were good during the holidays. The week of October 26  
 to November 2 was loaded with trop activity. October 30th CIXK 106.5 Owen Sound, Ont. was in  
 perfect on my 20 mile drive to work; not bad for 225 miles. The combination of snow in the west and a  
 "nor-easter" off of New England brought one of the best Indian summers here in recent memory. Still  
 planning on building a rhombic before the ground freezes, all I need is some free time! 105.9 brought a  
 new state (Maine), though I still am confused on the call. (They are WKRH, not WIGY anymore-gc). the  
 KRH DJ gave out a 800 number, so I called him and asked where he was. He said Dallas, Texas; this  
 surprised me unless I had E-skip off the back side, then he said he was on a satellite network and yes  
 they feed a station in Maine. A later ID said WKRH Maine's Classic Rock. I'll take it! One last note  
 100.9 WEZG claiming to be twice the power, now c. kw. 73s Jerry

**DOUG SMITH - 14 BROOKSIDE COURT - NASHVILLE, TENNESSEE 37209-4503**

Equipment: Sony ICF-2010, whip antenna, DXing in New England (where?-gc)

**OCTOBER 1991 DX**

**23 Tr**  
 Stations heard at ~ 2300

WHJY 94.1 RI Providence 145

WSRS 96.1 MA Worcester 135

WNTX 96.3 MA Nantucket 200

WCTK 98.1 MA New Bedford 145

WPLM 99.1 MA Plymouth 180

WWRX 103.7 RI Westerly 115

WFCC 107.5 MA Chatham 210

WRIU 90.3 RI Kingston, 3.4 kW 130

WSNE 93.3 MA Taunton 145

WAAF 107.3 MA Worcester 135

WVBF 105.7 MA Framingham 155

WCRB 102.5 MA Waltham 155

WCDJ 96.9 MA Boston 155

WBRU 95.5 RI Providence 145

WXKS 107.9 MA Medford 145

WHUS 91.7 CT Storrs, 3.2 kW 95

WROR 98.5 MA Boston 155  
 (calls are now WBMX-gc)

WBCN 104.1 MA Boston 155

WMJX 106.7 MA Boston 155

WSSH 99.5 MA Lowell 155

WFPG 96.9 NJ Atlantic City 135

WKTU 98.3 NJ Ocean City, 3 KW 135

**24 Tr (from car on I-84)=0800 from**  
 Middletown, NY

WJBR 99.5 DE Wilmington 130  
 =0830 from Port Jervis, NY

WDRC 102.9 CT Hartford 105



**DONT FORGET TO SEND IN YOUR DX!**





dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JRS 201 receiver (mod with 3 150 khz filters), Magnum Dynalab 205 Sleuth, Probe 9 fed with RG6 at 50 feet AGL, Crown rotor, Distances are in kilometres

SEPTEMBER 1991 DX

27 MS  
0807 WCOV 97.1 WA Sparta, k, local ad heard with Wisconsin ment, followed by calls 902

28 TrS  
0855 WYVS 102.7 WV Charleston, r, Super 102 after local ad, Bob & Josh of Morning Zoo 541

30 TrS  
0759 WWCX 105.5 MI Flint, r, CK 105.5 after ad for U of Mich. Berlin "Take My Breath Away" 288

OCTOBER 1991 DX

1 TrS  
0721 CFBK 105.5 ON Huntsville, rm, Birthday messages, time check, Lenny Kravitz music 265

2 Tr/TrS  
0746 WVKW 106.7 PA Beaver Falls, r, Kiss 106, "Adult Rock Hits all the time", followed by BST mx "Spinning Wheel", format change? 267

0800 WBYN 106.9 TN McKenzie, k, Win 107, local nx w/rt. ment of 3 Jackson youth 687

7 GW  
0715 CING 107.9 ON Burlington, rs, Dance 108 new nonID from Monday to Saturday 35

9 MS/TrS  
0720 WJLO 99.1 VA Rosnoke, r, Q99, nonID 655  
0802 WBYX 99.1 WI Milwaukee, legal ID Traffic report 633

10 MS  
0801 WPLR 99.1 CT New Haven, pr, Rock 99 calls head, relog from 11/18/90 MS log 602

OCTOBER 1991 DX

13 MS  
0800 WAWZ 99.1 NJ Zarepath, g, "Committed to bring you -- we are 99.1 WAWZ Zarepath NJ" 506

18 MS  
0729 KDEA 99.1 LA New Iberia, nr, y/l with calls, former E-skip, 6/12/90 1817

20 MS/Tr  
0833 WHCM 99.1 WV Parkersburg, k, Power Country 99, mention 25,000 watts power 460

1001 WHKO 99.1 OH Dayton, k, K99, Continuous Country Favourites K99FM 515

22 TrS  
1934 (WMJT) 100.9 MI Pionning-Saginaw, rm Magic 101 after music by Stevie Wonder 322

24 TrS  
0803 WKYS 93.9 DC Washington, rs, 93KYS 552

25 TrS  
0745 WFCB 94.3 OH Chillicothe, r, B94, local ad for Papa Dions Pizza, B94 heard 483

26 TrS  
0818 WDSO 94.7 DE Dover, k, "Hey! Where are you calling from? Newark, Georgetown, Princeton, NJ, it's now easier to get thru on our toll free line 1-800-955-WDSO, call us anytime" 598

27 TrS  
0718 WELK 94.7 WV Elkins, r, NEW K95, station promo for bumper stickers at local business 475

Happy Holidays, Merry DX Mas, 73dB

MARK STRICKERT - 3852 N. OCONTO - CHICAGO, ILLINOIS 60634

88.3 WIAV is on, heard on the way south 10/31, with odd mix (metal, R & B, jazz). Signal not great anywhere, but it does get out to the south and west all right. Yes, Elving, it's \$. Stopped at 95th and Cicero (1.5 miles from station) to record a side on my way home 11/5.

88.9 WARG Summit (Argo H.S.)-keeping more regular late hours this year-even caught at home after WRRG signoff. Has a variety of rock. Louly WNTH 88.1 more eclectic among local high schools this fall.

94.7 WYTZ - add to the "FM happenings caused by AM" file. sister WLS 890 had been out-rating them, so dropped the hits and started simulcasting the talk?!? May or may not officially be WLS-FM now...was still legally WYTZ after a week of yap and I can't stand them to check, hi.

95.9 WKKD-FM Aurora is getting strange, almost like they're evolving into an ez listening or even "new age"? Mixes in instrumentals, not accidentally as they promote it, that are often jazz-like or even the etherial "new age".

Side note = Almost everyone has mistakenly called the jazz-light ac stations new age, stations like WNUA, KTWV, KKSE, WOCD, WNWV, etc. Far as I know, NO commercial stations in the US play real true "new age" music except maybe for the two-hour syndicated "Musical Star-Streams" program, a commercial version of "Music from the Hearts of Space" on Sunday nights or like time period.

96.7 WLLI Joliet - shifted to familiar album oldies (aka "classic rock") seems like they flip-flopped satellite feeds with 105.5?

98.7 WFMT - has been moving towards becoming, at least in part, a "listener sponsored" station. Strange move as they've been relatively profitable as full commercial classical, plus their main rival WNIB already relies on listener contributions and program guide subscriptions to make up for weak ad revenue, and the non-commercial stations that already actively seek listener money are hurting. (Visual - shrug of shoulders and look of bewilderment).

100.3 WPNT - with 94.7's lazy shift, WPNT becomes "the station most likely to change" has lost over 2/3's of audience from the ez WLOO days, and is known to be hurting from cash flow.

105.5 WAIT-FM Wodstock - switched to WZSR "Star 105.5", back to satellite medium-to-up AC (via Unistar?)

MARK STRICKERT's comments continue.

Recent out of town news, maybe old by now but just in case... WESE now on 92.5 still ez (oh yeah ex 95.9 Baldwin, MS). 94.9 Holly Springs, MS not heard on. KYMO-FM East Prairie, MO (freq?) (105.3?-gc) heard on, with album oldies. WVUB 91.1 Vincennes, IN has ez listening during the day?!?! WEZW 103.7 Wauwatosa WI still trying to decide if they're ez or soft light ac - have heard blocks of both, and even jazz/ac mix on Sunday morning (trying for former WBZN listeners?). Slogan is "Easy 104" (with soft jingles), strict.

JEFF FALCONER - BOX 63 - CLINTON, ONTARIO N0M 1L0

Equipment: Magnum Dynalab FT-101A, Probe 9 at 27' with rotor, RG-11u feed, Magnum Dynalab 205 preamp.

AUGUST 1991 DX

25 Tr  
0519 WRMM 101.3 NY Rochester, rm\$ Warm 101.3 198

0523 WVAV 102.7 IL Oak Park, rm\$, V103 335  
0612 WUSN 99.5 IL Chicago, k\$ 335

0633 WEFM 95.9 IN Michigan City, b\$, We-FM, tough in shallow CFPL null 311  
1207 unID 96.7 rm\$, The all new Hot 96 Licks FM 159

1238 WLYY 101.7 MI Lansing, ro\$, Y-102 159

OCTOBER 1991

16 GW  
1825(CJXY) 95.3 ON Hamilton, op\$, Y-95 ex CKDS 90

NOVEMBER 1991

8 Au: Aindex 35/Index 6  
2156 WSHW 99.7 IN Frankfort, ro, ID 345

9 Au: Aindex 101/Index 81  
0325 WZOK 97.5 IN Rockford, r, ZOK 400  
0400 WASH 97.1 DC Washington, m, ID 394

16 MS  
1532 KKYK 103.7 AR Little Rock, "...in Little Rocks"...center..." 848

17 Tr/TrS  
0230 unID 93.5 ?? rp\$, The Voice 333  
0249 WBCM 93.5 MI Boyne City, k\$, BCM 333

1131 WLS 94.7 IL Chicago, t\$ 333  
1138 WLTO 97.3 WI Milwaukee, Lite 97 324  
1140 WUSN 99.5 IL Chicago, k\$, US99 333

Nov. 17 DX continued

1142 [WPNT]100.3 IL Chicago, r\$, The Point, ex WXEZ 333  
1151 WVAV 102.7 IL Oak Park, ads, V103\$ very strong q 335

1154 WJMK 104.3 IL Chicago, m\$, Magic 333  
1159 WMRI 106.9 IN Marion, ID, ABC nx\$ 330  
1213 WFMT 98.7 IL Chicago, c\$ 333

1214 WLUP 97.9 IL Chicago, r\$, Loop 333  
1313 WNSN 101.5 IN South Bend, ads\$ Sunny 101.5 277

1316 WDOR 93.9 WI Sturgeon Bay, Packers Football game 307  
1323 WWKI 100.5 IN Kokomo, k\$, Hit Country 100.5 321

18 TrS

2154 WCZY 104.3 MI Mount Pleasant, \$ end of Pistons Basketball game into b music 165  
22 TrS: " means the Probe 9 was phased into a log periodic antenna.

2151 WMSH 99.3\* MI Sturgis, r\$, CJBC4 phased, ID 239  
2252 [WKMF]101.7\* MI Tuscola, k\$, ID, ex WGMZ, CKNX phased 109

23 TrS  
1305 WVCC101.7\* PA Linesville, bigband\$ ID CKNX phased out 158

24 MS  
0424 KKYK 103.7 AR Little Rock, "...in Little Rock..." 848

A very intense aurora on November 8/9 reduced the band to hash. The Northern Lights put on a dandy display here. Threw together a crude phasing setup and have achieved encouraging results. I use a 13 element log periodic antenna and the Probe 9 fed into a Magnum Dynalab Signal Sleuth amplifier. The attenuator and tuning controls on the Signal Sleuth are then set for the best null on the offending signal. Reminds me of some of the phasing setups I have used for medium wave DX over the years. 73 Jeff

dBRUCE HALL - 5 STIRTON AVE. BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: see Bruce's previous report appearing this month.

NOVEMBER 1991 DX

1 Tr  
0800 WTRV 94.3 MI Leland, ro // WAIR 92.5 km  
"Northern Michigan's Super Station", 506

5 MS  
0732 WPUB 94.3 SC Camden, r, calls, mention of Columbia, SC weather 989

6 MS  
0728 KAMO 94.3 AR Rogers, k, K-Mo 94 FM 1408  
0801 WIFX 94.3 KY Jenkins, r, 94IFX 609  
2200 WJCF 88.3 NH Nashua, calls. E-skip on TV, tried FM, and got my 33th state, but E-skip did not reach the FM. 692

BRUCE'S COMMENTS ARE ON THE NEXT PAGE

NOVEMBER 1991 DX

8 Tr  
0755 WKSD 99.7 OH Paulding, Kiss 99.7, r km  
9 MS

0730 WAPW 99.7 GA Atlanta, rs, Power 99, lcl car ad, Highway 138, pb# request line 741-0097 spoke to Paul to confirm ad. 500th catch!! 1104

10 GW  
0905 [WGRF] 96.9 NY Buffalo, 97 Rock, r, "WGRF Buffalo, 97 Rock", ex: WGR-FM 115

18 MS  
0705 KFGO 101.9 ND Fargo, Magic 102 KF... 34th state  
0717 WHHY 101.9 AL Montgomery, Y102 1311

BRUCE HALL's comments.

Spent 7 hours monitoring different open frequencies for MS during Leonids shower. Major disappointment as far as number of bursts per hour. Snagged ND though; new state. I hope getting Geminids shower December 14 will produce more loggings. Other than MS, not much to report. Must be the time of year. Thanks to Sam Brown, UPI, caught some E-skip activity on TV. Thanks to Greg for helping to ID WLBT TV 3 Jackson, MS. Es didn't reach my FM dial! \$%#@!#! Hope others are getting their share of DX. Happy New Year! 73dB (Bruce also sent along a brochure on a new museum forthcoming in Brantford called "icom", that will demonstrate various communication technology-gc)

Bill Nienajadly Po Box 2999 Clifton NJ 07015-2999

November 23 Tropo to upper Hudson Valley

1700 WRAV 94.5 NY Ravena ID-----110	1733 WSSV 101.3 NY Stillwater ID-----161
1714 WKQZ 98.5 NY Catskill ID strong 110	1735 WKLI 100.9 NY Albany ID finally!----142
1719 WKBE 100.5 NY Warrensburg ID weak! 174	1743 WDSI 100.1 NY Woodstock
1731 WENU 101.7 NY Hudson Falls ID, strong! 173	1747 Albany FM's way up & strong!

Four new stations in a half hour, not bad for a small tropo opening like this. Just before checking the conditions, I replaced my filter line up to 180-180-110-110-110 and this helped on my 100.9 which had some problems with the 180-180-150-150-150 set up. Since I don't expect any real good openings (except December MS & ES)... I'm going to concentrate on the Tropscluster mode, on frequencies like 100.9, 95.3. Gooding! Bill

Also, thanks to both Bruce Elving and John Ebeling for setting me straight on my Minnesota UNIDs. Thanks to Harry Hayes who also set me straight on my WEBZ 99.3 question which did indeed turn out my WEBZ was WEBZ 99.3 Mexico Beach FL as he logged it too at the exact same time that I did. One other thing, WPRB 103.3 Princeton did increase their power and possibly their tower height, which Joe Feia says WPRB is supposedly on the WNJT-52 tower now. WPRB is heard here now a lot better now and could give me problems on E-Skip or tropo. I received a brochure on Andy Bolin's phase box, in it he goes into complete detail on the phase box and phasing in general, I found it really interesting. Im seriously considering getting a phase box. Gooding!

GREG CONIGLIO - 5100 GLENWOOD DR. - WILLIAMSVILLE, NEW YORK 14221

Equipment: Carver TX11 tuner modified with 150 khz filters, Stereo Probe 9 mounted on roof, CAC-11 and RG6 coax, Archer-rotor, rabbit ears with dials used with RS 0-10-20 db amp for phasing.

OCTOBER 1991 DX

18 Tr	
1124 CITE 107.3 PQ Montreal, French m\$	308
1130 CJFM 95.9 PQ Montreal, r\$, new song by Genesis	308
1129 W285AD 104.9 NY Watertown, translator of WMHR 102.9 Syracuse, weak sig g	153
2229 (CKLW) 93.9 ON Windsor, of, ex CKMR	
29 Tr	
0000 CBON 104.9 ON Gogama, FF mono	370
CJQM 104.3 ON Sault Ste. Marie, k\$	363
CBCE 97.5 ON Little Current, CBC	259
0010 WHSB 107.7 MI Alpena, over local (WGLD) 105.1 MI Cheboygan, classic 105.1, ex WGFM and WQLZ	343



This has been a horrendous season for tropo. Other than the two mediocre openings in October noted above, there has been next to no activity. September was completely lacking in any real opening. This is the exact opposite of last year, in which there were multiple 600+ mile openings. I have heard of several out of season Es openings, caught only one early in November, but the MUF was only channel 5. Thanks Bob Seybold and dBruce Hall for phone calls alerting me to that opening. Thanks to Mike Cherry, and Dave Nieman for sending logogs. I received the convention video tape from Tom Bryant recently, just like last year Tom did an excellent job. And thanks to all who have contributed to Northern FM DX during 1991, by reporting, or sending in logogs or special reports. I hope to hear from all of you more in 1992, and lets hear from some new people too!

NOVEMBER 1991 DX

8 Au	
1700 WVXU 91.7 OH Cincinnati, ID in car radio, only 2nd time heard via Au, and both times heard in car. Last time was in 1989, driving on Aurora Ave. (seriously!). Strongest Au I have heard, with possible exception of 3/13/89, but not many stations were readable. Nice visual display too	
9 Au	
0000 WRDR 104.9 NJ Egg Harbor City, strong and unusually clear, big band music	330
28 TrS (DXing in Rochester, New York), ~1800	
CITE 107.3 PQ Montreal, French over WRCK, m\$	254
WHLM 106.5 PA Bloomsburg, several over WYRK	160
CING 107.9 ON Burlington, r\$, Dance 108 heard over WRHP	112
WIRQ 94.3 was not noted on the air. None of the area CPs were noted on the air either.	

SOUTHERN FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

JANUARY 1992

DEADLINE: 14th

SOUTHERN FM DX IS FOR REPORTERS FROM: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT and also DC. Happy DXing in '92 and report soon!

REPORTS ON THE NOV. 8th AURORA AND SUBSEQUENT ES ARRIVE.

SAN ANTONIO REPORTS IN.

Doug Allen, w2crs, P. O. Box 5646, Woodland Park, CO 80866

Equipt.: Onkyo T-4087 and various Pioneer tuners (all IF modified), FM-13 at 50 feet.

11/8 Au		11/9 Es	
1700 WNTN 88.3 IN Evansville, ID		1759 KRNR 88.3 TX Brownsville, ID	
1730 ??? 96.9 by turning antenna 5 different stations all mushy.		1801 XHNOET 91.3 TA Nueva Laredo, SS	
1800 KCEV 88.3 KS Wichita, new cl		1802 ??? 97.1 ? SS	
1900 KJTY 88.1 KS Topeka, ID		1804 WJIZ 96.3 GA Albany, ID	
2042 KZBQ 93.7 ID Pocatello, ID		1806 KOYET 94.9 TX Laredo, Y-95	
2106 WPRE 94.3 WI Prairie de Chien, ID		1807 KHER 94.3 TX Crystal City, SS then "KH-FM" in EE	
2110 WKLP 96.9 IL Moline, 97-X		1811 WOLT 107.3 AL Florence, 107-Q	
2131 KFMH 99.7 IA Muscatine, ID & "Iowa City"		1813 ??? 103.1 MS? mention of "Golden Triangle"	
2136 KKEZ 94.5 IA Fort Dodge, ID		1815 WUN 101.7 MS Clarksdale, ID	
2145 KHAK 98.1 IA Cedar Rapids, ID		1817 WALX 100.9 AL Selma, ID & "Laser 101"	
11/9 Es		1822 WSYA 103.3 AL Montgomery, "Sunny 103"	
1735 KILT 94.5 TX Harlington, ads		1840 WTTY 95.5 AL Dothan, ads	
1737 WKBU 97.7 GA Griffin, "Cool FM"		1853 WABB 97.5 AL Mobile, ID	
1745 XHAAA 93.1 MX Reynosa, SS		1855 WKSJ 94.9 AL Mobile, k, "95 KSJ"	
1746 KGNZ 88.1 TX Abilene, ID		1900 WJST 94.5 FL Port St. Joe, "rel ad for WJOE"	
1749 KKMJ 95.5 TX Austin, ID and "Magic 95.5"		1907 KPOW 98.7 ? "K-POW" ID	
1754 KVMV 96.9 TX McAllen, g		1915 WTYL 97.7 MS Tylertown, ID, "1290 AM"	
1756 KMBT 88.9 TX Harlington, local events		1920 WKLT 94.1 MS McComb, "Sunny 94.1"	
		1934 WINK 96.9 FL garbled ID & "sun coast giant", double hop?	

The band was loaded with aurora signals the evening of the 8th, but very difficult to copy any thing as several signals were competing on every open frequency and audio was very mushy, typical of auroral signals. I worked about 20 states on 144 MHz during the same period. The Es of the next day followed excellent 50 MHz F-skip to South America, New Zealand, Australia, and Japan, the latter three new for me on six meters.

A friend in Silver Lake, KS, Greg Cerny, has been DXing a lot recently. He has test equipment at work and offered to test and compare the Murata and Toko 150 kHz IF filters. I sent him 10 of mine, plus he already had quite a number of Murata and Toko filters. He says there's no comparison. The Murata filters have less insertion loss, a flatter bandwidth, steeper slopes, and are much closer to 10.7 MHz. Whereas almost all Murata filters are within 10 kHz of the 10.7 MHz specification, many Toko filters are 10 to 30 kHz off. From now on, I'm sticking to the Muratas! Greg also built up two 5 filter "super-duper IF amplifiers" described by Tim McVey in his "Technical Topics" Nov. 1990 VUD. Greg reports dramatic adjacent channel selectivity using one of them in his tuner. He sent me the other circuit board which I will install and report on next month. Belated Season Greetings, and a Happy New Year to all!

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

Equipt.: McIntosh MR-78, Probe 9, RG-6 coax

10/17 trs		11/8 au (with Onkyo tuner)	
1258 WHTK 99.7 SC Port Royal, ID	350	1811 tune in, 30 db to 107.9, noise!	
11/1 ms		1838 KHFT 98.7 MO Springfield, 22db	
1250 KANL 104.9 NE York, ID, prev. Es		1846 KVMU 90.7 MO St. Louis, prev. tr, 7db	
1251 WPKY 104.9 KY Princeton, r, ID		1853 KGOR 99.9 NE Omaha, prev. Es, 14db	
1253 WKYW 104.9 KY Frankfort, lc, ad		1920 25 db noise again, total f/out 1928	
1255 WRHG 104.9 KY Leitchfield, ID		11/9 Es	
11/6 trs		1910 KSPK 102.3 CO Walsenburg, k, ID	
1924 WKRY 93.5 FL Key West, prev. Es		1918 KSLV 95.3 CO Monte Vista, "V-95.3"	
2152 WKLR 93.1 IN Indianapolis, o, ID	360	1921 KRTZ 98.7 CO Cortez, k, ads	
11/7 trs		1922 KWQX 101.3 CO Durango, r, ID	
2247 WFAE 90.7 NC Charlotte, c, ID	300	1930 KRSJ 100.5 CO Cortez, ads	
		1932 KRTN 94.3 NM Raton, nx	
		1941 KRWN 92.9 NM Farmington	

cont.....



## SOUTHERN FM DX

11/9 Es			
1959 KWYK	94.9	NM Aztec, r, ID	
2004 KQNM	93.7	NM Gallop, "KQ-93"	
2008 KNYN	95.5	NM Santa Fe, k, ID	
2013 KMGJ	93.9	AZ Flagstaff, ID	
2016 KAFF	92.9	AZ Flagstaff, k, ID	
2031 KUNM	89.9	NM Albuquerque	
11/10 gw-tr (recent new FMs)			
1700 WERQ	104.5	TN Knoxville, Q-104,\$	160
1800 WGOG	96.3	SC Walhalla, ID	180
1825 WJBE	96.3	TN Seymore, g, \$,ID	170
11/27 tr			
1300 WJNL	98.5	AL Linden,k,Win-98,\$	162
1308 WJXR	96.3	SC Aiken,rp(rare)	316

The au on 11/8 was much less audible than the very workable event in Mar. '89. At times this au was solid noise with no voice detected. Things got better as the au weakened, but was unable to ID much. The Onkyo T-9090 works better on au than the MR-78. In super narrow, the MR-78 has a hard time with the already distorted au, but you can always switch to narrow, and it will work just fine. It's just that the Onkyo is a bit more selective than the MR-78's narrow mode. Thanks to all who helped with unIDs over the past year. 73s.

Pat Dyer WA5TYX, 5315 Silvertip Dr., 78228-2744

## June 1991 (CST)

## 2: (Es)

0800 WVPN	88.5	WV Charleston	
1200 KLDZ	92.7	MO Eldon	
1202 KDMG	103.3	IA Pella	

## 3: (Es)

0726 WMHK	89.7	SC Columbia	
0727 WHLZ	92.5	SC Manning	
0731 WAAS	93.5	SC Columbia	
0738 WKOD	98.7	NC Jacksonville	
0746 WMXF	96.5	NC Laurinburg	
0747 WKML	95.7	NC Lumberton	
0749 WAPW	99.7	GA Atlanta	
0751 WZFX	99.1	NC Whiteville	
0754 WPCB	94.9	GA Atlanta	
0834 WFDD	88.5	NC Winston-Salem	
0841 WNCW	88.7	NC Spindale	
0859 WPMW	92.7	WV Mullens	
0914 WHUB	98.5	TN Cookeville	
0919 WNLV	94.5	FL Daytona Beach	
0924 WPKA	92.3	FL Orlando	
0928 WHTO	96.5	FL Orlando	
0932 KHYS	98.5	TX Port Arthur (tr)	
0953 WPAP	92.5	FL Panama City	
0957 WQIK	99.1	FL Jacksonville	
1001 WFSY	98.5	FL Panama City	
1252 WTLG	88.3	FL Starke	
1259 WJFR	88.7	FL Jacksonville	
1315 WMNF	88.5	FL Tampa	
1402 WNCM	88.1	FL Jacksonville	
1406 WGMK	106.3	GA Donaldsonville	
1408 WLYU	92.5	GA Lyons	
1409 WVOH	93.5	GA Hazlehurst	
1411 WKXH	104.3	GA Alma	
1412 WNC2	107.9	NC Greenville	
1419 WHTK	99.7	SC Port Royal	
1425 WXTC	96.9	SC Charleston	
1428 WRNS	95.1	NC Kinston	
1435 WTDR	96.9	NC Statesville	
1436 WKSI	98.7	NC Greensboro	
1440 WVBS	99.9	NC Bursaw	
1443 WMYM	94.5	NC Eden	
1447 WZMQ	103.9	FL Key Largo	
1456 WQSM	98.1	NC Fayetteville	
1457 WCMQ	92.3	FL Hialeah	

## Pugh, cont.

11/17 tr			
1402 WPBS	97.9	NC Concord, s, ID	320
11/27 tr			
2332 KBFC	93.5	AR Forest City, ID	260
11/28 tr			
1101 KLSA	90.7	LA Alexandria, ID	425
1105 WGRM	93.9	MS Greenwood, r, ID	250
12/2 Es			
1547 WOW	94.1	NE Omaha, "wow FM"	
1548 KEZO	92.3	NE Omaha, Z-92	
1551 KNEN	94.7	NE Norfolk	
1553 KLZU	93.5	?? k,\$	
1558 KTFN	92.1	MO Trenton, k, ID	540
1604 KRCS	93.1	SD Sturgis, k, ID	

The au on 11/8 was much less audible than the very workable event in Mar. '89. At times this au was solid noise with no voice detected. Things got better as the au weakened, but was unable to ID much. The Onkyo T-9090 works better on au than the MR-78. In super narrow, the MR-78 has a hard time with the already distorted au, but you can always switch to narrow, and it will work just fine. It's just that the Onkyo is a bit more selective than the MR-78's narrow mode. Thanks to all who helped with unIDs over the past year. 73s.

1504 WGUF	92.7	FL Marco	
1517 WLVE	93.9	FL Miami Beach	
1520 WNHW	92.5	NC Nass Head	
1523 WZTA	94.9	FL Miami Beach	
1527 WRMF	97.7	FL Palm Beach	
1533 WKXP	88.5	FL Sunrise	
1554 WKTC	96.9	NC Goldsboro	
1617 WLHN	97.9	IN Anderson	
2149 KYGO	98.5	CO Denver	
2151 KTAK	93.9	WY Riverton	
2153 KLZY	92.5	WY Powell	

## 5: (Es)

1025 TG--	88.5	Gua	
1026 TG	88.1	Gua Guatemala City	

## 6: (Es)

1759 KGNU	88.5	CO Boulder	
1805 KTDB	89.7	NM Ramah	
1809 KLZY	92.5	WY Powell	
1820 KBPI	105.9	CO Denver	
1833 KMGW	94.5	WY Casper	
1835 KJYE	92.3	CO Grand Junction	
1836 KDHT	92.5	CO Greeley	
1855 KHOW	95.7	CO Denver	
1908 KKFM	96.5	CO Colorado Spgs	
1911 KMTS	92.7	CO Glenwood Spgs	
1914 KYCS	95.1	WY Rock Springs	
1919 KRAI	93.7	CO Craie	
1933 KOSW	96.5	WY Rock Springs	
2000 KSMT	102.3	CO Breckenridge	
KRYT	107.9	CO Pueblo	
2016 KRNL	103.9	CO Canon City	
2020 KIMN	107.9	CO Fort Collins	
2052 KCGY	95.1	WY Laramie	

## 7: (Es)

0923 KRXT	98.5	TX Rockdale (tr)	
0928 WRJA	88.1	SC Sumter	
1205 WMCU	89.7	FL Miami	

## 9: (Es)

1815 WGNV	88.5	WI Milladore	
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## 12: (Es)

0612 KLZY	92.5	WY Powell	
0618 KSBT	96.7	CO Steamboat Spgs	
0619 KRDO	95.1	CO Colorado Spgs	

## JANUARY 1992

## SOUTHERN FM DX

June 12: (Es)			
0620 KPBI	105.9	CO Denver	
0621 KILQ	93.9	CO Colorado Spgs	
0622 KSMT	102.3	CO Breckenridge	
0623 KRYT	107.9	CO Pueblo	
0629 K203AT	88.5	CO Westcliffe	
0630 KSPK	102.3	CO Walsenburg	
0640 KPRN	89.5	CO Grand Junction	
0652 KQIX	93.1	CO Grand Junction	
0655 KEKB	99.9	CO Grand Junction	
0658 KJYE	92.3	CO Grand Junction	
0701 KCIC	88.5	CO Grand Junction	
0742 KZIQ	92.7	CA Ridgecrest	
0830 KKFR	92.3	AZ Glendale	
0831 KDKB	93.3	AZ Mesa	
0832 KOOL	94.5	AZ Phoenix	
0835 KMEO	96.9	AZ Phoenix	
WEDW	92.5	FL Key West	
0839 KTEP	88.5	TX El Paso	
0843 XHRM	92.5	BCN Tijuana	
KJOK	93.1	AZ Yuma	
0844 KTTI	95.1	AZ Yuma	
0845 KQEZ	103.9	AZ Coolidge	
XHNI	105.1	SDN Nogales	
0851 DUG	108.8	AZ Douglas	
0926 KRKY	105.9	AZ Kingman	

## 106-12-91: (Es)

0929 KFSD	94.1	CA San Diego	
0936 KMLE	107.9	AZ Chandler	
KKLQ	106.5	CA San Diego	
0940 KZLA	93.9	CA Los Angeles	
KTWV	94.7	CA Los Angeles	
0942 KBBY	95.1	CA Ventura	
0944 KPWR	105.9	CA Los Angeles	
0947 KCMJ	92.7	CA Indio	
0949 KQYN	95.7	CA 29 Palms	
0951 KJLH	102.3	CA Compton	
0952 KACE	103.9	CA Inglewood	
0953 KKGQ	105.1	CA Los Angeles	
0956 KCDZ	107.7	CA 29 Palms	
0959 KWVE	107.9	CA San Clemente	
1000 KKBT	92.3	CA Los Angeles	
1001 KGB	101.5	CA San Diego	
KCHV	93.7	CA Coachella	
1003 KGMX	105.3	CA Lancaster	
1011 KJUL	104.3	NV North Las Vegas	
1014 KEYV	93.1	NV Las Vegas	
1017 KLOS	95.5	CA Los Angeles	
1019 KXEZ	98.7	CA Los Angeles	
1021 KVWM	93.5	AZ Show Low	
1023 KPLM	106.1	CA Palm Springs	
1027 KRLV	106.5	NV Las Vegas	
1030 KFFG	95.1	CA San Bernardino	
1035 KLDJ	104.9	CA Ridgecrest	
1040 KQZ	97.9	CO Cortez	
1042 KAHM	102.1	AZ Prescott	
1045 KZEZ	93.5	UT St. George	
1052 KWRN	95.5	NV Henderson	
1055 KPAH	92.7	NV Tonopah	
1127 KCEP	88.1	NV Las Vegas	
1515 WCMQ	92.3	FL Hialeah	
1524 WXDJ	95.7	FL Homestead	
1534 WMCU	89.7	FL Miami	
1550 WKIS	99.9	FL Boca Raton	
1554 WLVE	93.9	FL Miami Beach	
1555 WZTA	94.9	FL Miami Beach	
WLYF	101.5	FL Miami	
1557 WRGI	93.5	FL Naples	
1558 WCVU	94.5	FL Naples	
1600 WAXY	105.9	FL Fort Lauderdale	
1604 WKRY	93.5	FL Key West	
1606 WPOW	96.5	FL Miami	

## Dyer, cont.

13: (Es)			
0956 WMNF	88.5	FL Tampa	
1022 WTTT	92.3	IN Bloomington	
1049 KUBO	88.7	CA Calexico	
1054 KCHV	93.7	CA Coachella	
1058 KKBT	92.3	CA Los Angeles	
1059 KACE	103.9	CA Inglewood	
KKGO	105.1	CA Los Angeles	
1100 KLOS	95.5	CA Los Angeles	
1102 KODJ	93.1	CA Los Angeles	
1103 KWVE	107.9	CA San Clemente	
1105 KZLA	93.9	CA Los Angeles	
1106 KOLA	99.9	CA San Bernardino	
(13:)			
1110 XHRM	92.5	BCN Tijuana	
KAVS	97.7	CA Mojave	
1112 KMLE	107.9	AZ Chandler	
1113 KPWR	105.9	CA Los Angeles	
1122 KOOL	94.5	AZ Phoenix	
KRMX	94.9	CA San Diego	
KGMX	105.3	CA Lancaster	
1132 KZIQ	92.7	CA Ridgecrest	
1141 KLDJ	104.9	CA Ridgecrest	
1148 KRAI	93.7	CO Craie	
1156 WIAA	88.7	MI Interlochen	
1157 KEYV	93.1	NV Las Vegas	
1200 KFSD	88.5	MN Rochester	
1204 WERN	88.7	WI Madison	
1209 XHMMF	92.3	BCN Mexicali	
1218 KFOJ	93.5	CA Redondo Beach	
KNJO	92.7	CA Thousand Oaks	
1230 WCRC	95.7	IL Effingham	
1234 KPAH	92.7	NV Tonopah	
1238 KRZE	97.5	CA Ontario	
1259 WLAB	88.3	IN Fort Wayne	
1303 WLLZ	98.7	MI Detroit	
1316 WHMI	93.5	MI Howell	
1318 WTVG	97.7	MI Sandusky	
1323 WZOW	97.7	IN Goshen	
1329 WLQI	97.7	IN Rensselaer	
1332 WVIC	94.9	MI Lansing	
1337 WJFM	93.7	MI Grand Rapids	
1405 WLDY	92.7	WI Ladysmith	
1412 WAQE	97.7	WI Rice Lake	
1413 KCZY	92.7	IA Osage	
1414 KDAL	95.7	MN Duluth	
1454 WGNV	88.5	WI Milladore	
1627 KLJC	88.5	MO Kananas City (ms)	
1737 KEZJ	95.7	ID Twin Falls	
1739 KCPX	98.7	UT Salt Lake City	
1805 KXAZ	93.5	AZ Page	
1810 KZEZ	93.5	UT St. George	
1821 KCEP	88.1	NV Las Vegas	
1829 WMWZ	93.7	FL Ocala	
1830 WNLV	94.5	FL Daytona Beach	
1832 WHTO	96.5	FL Orlando	
1833 WMMO	98.9	FL Orlando	
1836 WPKA	92.3	FL Orlando	
1846 WOCL	105.9	FL De Land	
1852 WRMF	97.9	FL Palm Beach	
1853 WKTK	93.5	FL Crystal Beach	
1854 WDMX	105.1	FL Orlando	
1855 KXEZ	98.7	CA Los Angeles	
1859 WZTU	104.1	FL Cocoa Beach	
1900 WIRK	107.9	FL West Palm Beach	
1901 WMLD	104.9	FL Havana	
1903 WYUU	92.5	FL Safety Harbor	
1910 WCVU	94.5	FL Naples	
1911 WBGF	93.5	FL Belle Glade	
1914 WLRQ	99.3	FL Cocoa	
1919 WNLV	93.9	FL Miami Beach	
1922 WMTX	95.7	FL Clearwater	

## SOUTHERN FM DX

(6-13-91) (Es)

1929 WKNT	107.1	FL	Lehigh Acres
1933 WEDW	92.5	FL	Key West
1937 WGRZ	106.3	FL	Sarasota
1945 WZMQ-103.9		FL	Key Largo
1951 WOVV	95.5	FL	Fort Pierce
1953 WINK	96.9	FL	Fort Myers
1955 WKIS	99.9	FL	Boca Raton

14:

0927 KSBK	88.5	CA	Mission Viejo
0939 XHRM	92.5	BCN	Tijuana
0940 KKBK	92.3	CA	Los Angeles
0946 KZLA	93.9	CA	Los Angeles
0951 KPWR	105.9	CA	Los Angeles
0959 KFOX	95.3	CA	Redondo Beach
1023 KSDS	88.3	CA	San Diego
1026 XETRA-91.1		BCN	Tijuana
1052 KZIQ	92.7	CA	Ridgecrest
1103 KGMX	106.3	CA	Lancaster
1112 KAVS	97.7	CA	Mojave
1124 KLOS	95.5	CA	Los Angeles
KTWV	94.7	CA	Los Angeles
1128 KQYN	95.7	CA	29 Palms
1131 KCMJ	92.7	CA	Indio
KBIG	104.3	CA	Los Angeles
1137 KBBY	95.1	CA	Ventura
1139 KMGD	106.3	CA	Goleta
KPLM	106.1	CA	Palm Springs

1142 KRZE	93.5	ON	Ontario
1156 KSKQ	97.9	CA	Long Beach
1200 KLOK	88.1	CA	Long Beach
1225 XHMF	92.3	BCN	Mexicali
1252 KDHT	92.5	CO	Greeley (ms)

24: (Es)

1650 KTYD	99.9	CA	Santa Barbara
1657 KLOS	95.5	CA	Los Angeles
XHMF	92.3	BCN	Mexicali
1658 KYXY	96.5	CA	San Diego
1659 KXEZ	98.7	CA	Los Angeles
1700 KFOX	93.5	CA	Redondo Beach
1703 KLOK	88.1	CA	Long Beach
1713 XHSOL	89.9	CA	Mexicali
1716 KFMB-100.7		CA	San Diego
1718 XHRM	92.5	BCN	Tijuana
1720 KRMX	94.9	CA	San Diego
KSDS	88.3	CA	San Diego
1722 KKLQ-106.5		CA	San Diego
1733 KJOY	103.7	CA	San Diego
2137 KKBT	92.3	CA	Los Angeles

25: (Es)

0759 WEGC	92.5	SC	Greenville
WGWG	88.3	NC	Boiling Springs
0800 WKRR	92.3	NC	Asheboro
0809 WKOD	98.7	NC	Jacksonville
0812 KPLE	104.3	TX	Temple (tr)
0829 WTDJ	93.9	KY	Burnside
0837 WLAP	94.5	KY	Lexington
0841 WJIE	88.5	KY	Okolona
(25:)			
0955 KMCH	92.5	MT	Helena City
1037 KLZY	92.5	WY	Powell

29: (Es)

0841 WKKA	92.3	FL	Orlando
0847 WHTO	96.5	FL	Orlando
0848 WLVE	93.9	FL	Miami Beach
0855 WNNF	88.5	FL	Tampa

Dyer, cont.

0915 WATA	93.3	GA	St. Marys
0917 WFLI	101.5	FL	Quincy
0919 WOKP	92.5	GA	Folkston
0920 WHJX	101.5	GA	Brunswick
0927 WHCJ	88.5	GA	Savannah
1059 WLPK	88.3	GA	Jesup
1104 WKDL	91.5	SC	Ladson
1113 WHLZ	92.5	SC	Manning
1242 KSDS	88.3	CA	San Diego
1259 WAIR	92.5	MI	Atlanta
1302 WIAA	88.7	MI	Interlochen
1305 WGVU	88.5	MI	Allendale
1307 KALA	88.5	IA	Davenport
1327 WOZZ	93.5	WI	New London
1335 WJPD	92.3	MI	Ishpeming
1559 WCCA	88.5	IL	Quincy (ms)
1628 WAMU	88.5	DC	Washington
1700 WLLZ	98.7	MI	Detroit
1702 WMXD	92.3	MI	Detroit
1754 WBNH	88.5	IL	Pekin
1759 WONU	89.7	IL	Kankakee
1857 WDCD	89.7	GA	Cochran
1859 WFCH	88.5	SC	Charleston

30: (Es)

2122 KCEP	88.1	NV	Las Vegas
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July 1991 (CST)

1: (Es)

0739 KOEL	92.3	IA	Delweir
0740 WLDY	92.7	WI	Ladysmith
0743 KJFY	92.5	IA	Ankeny
0746 KFSS	88.5	MN	Rochester
0749 WBEZ	91.5	IL	Chicago
0804 KMSU	89.7	MN	Mankato
0809 KDDR	92.3	ND	Oakes
0826 KPLO	94.5	SD	Reliance
0833 KKOK	95.7	MN	Morris
0836 KLDZ	95.1	NE	Lincoln
0838 KBYZ	96.5	ND	Bismarck
0842 KELD	92.5	SD	Sioux Falls
0843 KSQY	95.1	SD	Deadwood
0909 KAML	96.9	WY	Gillette
0913 KCGY	95.1	WY	Laramie
0917 KOLT	103.7	WY	Casper
0923 KBPI	105.9	CO	Denver
0930 KFBO	97.9	WY	Cheyenne
0931 KYCS	95.1	WY	Rock Springs
0936 KMGW	94.5	WY	Casper
0944 KJYE	92.3	CO	Grand Junction
0948 KRAI	93.7	CO	Craig

5: (Es)

0740 WUAW	88.3	NC	Erwin
0741 WKSU	89.7	DH	Kent
0742 WJPD	92.3	MI	Ishpeming
0746 WCOL	92.3	OH	Columbus
0759 WYSU	88.5	OH	Youngstown
0808 WGNV	88.5	WI	Milladore
8: (Es)			
1010 WJPD	92.3	MI	Ishpeming
1012 WIAA	88.7	MI	Interlochen
1035 WZTR	95.7	WI	Milwaukee
1036 WLHT	95.7	MI	Grand Rapids
1038 WKHO-105.9		MI	Charlevoix
1045 WLTO	103.9	MI	Harbor Springs
1047 WGFN	105.1	MI	Cheboygan
1049 WYSY	107.9	IL	Aurora
1059 WDUX	92.7	WI	Waupaca

## SOUTHERN FM DX

July 8: (Es)

1101 WDEK	92.5	IL	De Kalb
1103 WFMT	98.7	IL	Chicago
1104 WUPS	98.5	MI	Houghton Lake
1104 WOLX	94.9	WI	Baraboo
1110 WDDR	93.9	WI	Sturgeon Bay
1114 WYCA	92.3	IN	Hammond
1116 WAPL	105.7	WI	Appleton
1119 WGSN	97.7	OH	Castalia
1242 WOZY	95.9	GA	Dublin
1120 WATZ	99.3	MI	Alpena
WAUN	92.7	WI	Kewaunee
1123 WNBV	93.5	MI	Newberry
1126 WUPD	97.9	MI	Newberry
1130 WVIC	94.9	MI	East Lansing
1139 WGRD	97.9	MI	Grand Rapids
1141 WFBE	95.1	MI	Flint
1147 WSTD	96.9	MI	Standish
1152 WDZZ	92.7	MI	Flint
1155 WRIZ	106.3	MI	Lakeview
1156 WQLR	106.5	MI	Kalamazoo
1157 WOOD	105.7	MI	Grand Rapids
1159 WUGN	99.7	MI	Midland
1221 WGVU	88.5	MI	Allendale
1344 WBWI	92.5	WI	West Bend
1459 WCPE	89.7	NC	Raleigh

10: (Es)

0929 WKPK	88.5	FL	Sunrise
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12: (tr)

1326 XHSRO	92.5	NL	Monterrey
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17: (Es)

1129 WFCH	88.5	SC	Charleston
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18: (Es)

0152 WRVL	88.3	VA	Lynchburg
0449 KESD	88.3	SD	Brookings
0741 WCCA	88.5	IL	Quincy
0805 WGVU	88.5	MI	Allendale
0826 KDCR	88.5	IA	Sioux Center
0830 WBNH	88.5	IL	Pekin
WCBR	92.7	IL	Arlington Hts
0900 KEVA	88.5	ND	Belcourt
0905 KTHA	92.7	IA	Ottumwa
0912 KOEL	92.3	IA	Delweir
0947 WLDY	92.7	WI	Ladysmith
1050 KLZY	92.5	WY	Powell
1621 WYUU	92.5	FL	Safety Harbor
1622 WMMO	98.9	FL	Orlando
1623 WMTX	95.7	FL	Clearwater
1624 WXTB	97.9	FL	Clearwater
WZTU	104.1	FL	Cocoa Beach
1626 WMMZ	93.7	FL	Ocala
1629 WNNF	88.5	FL	Tampa
1630 WJCT	89.9	FL	Jacksonville
WUSF	89.7	FL	Tampa
1638 WQPW	95.7	GA	Valdosta
1641 WEQW	92.5	FL	Key West
1643 WJST	94.5	FL	Port St. Joe
1646 WNFJ	99.9	FL	Palatka
WTBB	97.7	FL	Bonifay
1647 WBGW	98.9	GA	Tallahassee
1654 WMKD	94.9	FL	Millen
WINK	96.9	FL	Fort Myers
1657 WRGI	93.5	FL	Naples
1658 WCVU	94.5	FL	Naples
1700 WSGI	103.1	FL	Naples
1703 WUSA-100.7		FL	Tampa
1707 WOVV	95.5	FL	Fort Pierce
1712 WFLZ	93.3	FL	Tampa

Dyer, cont.

1716 WRMF	97.9	FL	Palm Beach
1718 WKKA	92.3	FL	Orlando
1722 WGNB	98.1	FL	Titusville
1728 WKDL	96.9	FL	Jacksonville
1729 WAPE	95.1	FL	Jacksonville
1732 WFAA	92.5	FL	Panama City
1737 WBYZ	94.5	GA	Baxley
1743 WFTM	105.7	GA	Ashburn
1747 WOZY	95.9	GA	Dublin
1749 WKWZ	92.7	GA	Dublin
1752 WLWT	92.3	AL	Montgomery
1753 WIXV	95.5	GA	Savannah
1754 WIJY	107.9	SC	Hilton Head Is
1759 WFXH	106.1	SC	Hilton Head Is
1804 WJCL	96.5	GA	Savannah
1819 ITOI	103.9	AL	Troy
1820 WTQR	104.1	NC	Winston-Salem
1825 WCGO	107.3	GA	Columbus
1826 WHLZ	92.5	SC	Manning
1828 WMGQ	104.9	GA	Millen
1830 WESC	92.5	SC	Greenville
1844 WRDX	106.5	NC	Salisbury
2000 WOKF	92.5	GA	Folkston
WFSY	98.5	FL	Panama City
2001 WGLF	104.1	FL	Tallahassee

19: (Es)

0751 KZLA	93.9	CA	Los Angeles
0753 KSBK	88.5	CA	Mission Viejo
0803 KPWR	105.9	CA	Los Angeles
0805 KKBK	92.3	CA	Los Angeles
0815 KPFB	90.7	CA	Los Angeles
0950 XHMF	92.3	BCN	Mexicali
0951 XETRA	91.1	BCN	Tijuana
0957 XHRM	92.5	BCN	Tijuana
1058 WYSU	88.5	OH	Youngstown
1059 WQSU	89.7	OH	Columbus
1547 WLAB	88.3	IN	Fort Wayne
1550 WRNS	95.1	NC	Kinston
1605 WNUU	94.5	SC	Greenville
1618 WKRR	92.3	NC	Asheboro
1624 WXPB	96.9	TN	Bristol
WTFM	98.5	TN	Johnson City
1627 WVPV	94.9	VA	Roanoke
1629 WVPN	88.5	WV	Charleston
1630 KOEL	92.3	IA	Delweir
1634 WTDK	96.9	NC	Statesville
WPEG	97.9	NC	Concord
1641 KISD	98.7	MN	Pipestone
1644 KLSS	106.1	IA	Mason City
1646 WRKR	92.5	KY	Owensboro
1649 WRRR	93.9	WV	St. Marys
1651 WKOD	98.7	NC	Jacksonville
1652 WTLG	105.7	IN	Indianapolis
1653 WLBC-104.1		IN	Muncie
1656 WDJQ	92.5	OH	Alliance
1657 WXPJ	97.9	IN	Anderson
1700 WAKO	103.1	IL	Lawrenceville
1711 WUPS	98.5	MI	Houghton Lake
1714 WOOD-105.7		MI	Grand Rapids
1715 WAIR	92.5	MI	Atlanta
1716 WJNY	103.9	IN	Crown Point
1717 WYCA	92.3	IN	Hammond
WVIC	94.9	MI	East Lansing
1718 WLHT	95.7	MI	Grand Rapids
1719 WTHN	101.5	WI	Madison
1720 WART	103.9	IL	Dundee
1722 WRRH	92.5	NC	Nags Head
1725 WSLD	92.5	IL	Urbana
1729 KORS	92.5	MN	Golden Valley

## SOUTHERN FM DX

## July 19: (Es)

1738 WPAY 104.1 OH Portsmouth  
1746 CHTZ 97.7 ON St. Catherines  
1749 WBWI 92.5 WI West Bend  
1757 WMYG 96.9 PA Braddock

## 24: (Es)

0700 WKPX 88.5 FL Sunrise  
0701 WCMQ 92.3 FL Hialeah  
0708 WLVE 93.9 FL Miami Beach  
0712 WBGF 93.5 FL Belle Glade

## 25: (Es)

0848 WCRD 92.3 FL Hialeah  
0850 WKPX 88.5 FL Sunrise  
0958 WMTX 95.7 FL Clearwater  
0901 WMNF 88.5 FL Tampa

## 29: (Es)

2159 KCRB 88.5 MN Bemidji

## 31: (Es)

1538 WFCH 88.5 SC Charleston  
1559 WMHK 89.7 SC Columbia  
1605 WLOU 96.7 NC Jacksonville  
1607 WCMQ 92.3 FL Hialeah  
WKML 95.7 NC Lumberton  
1609 WRNS 95.1 NC Kinston  
1613 WKTC 96.9 NC Goldsboro  
1622 WNHV 92.5 NC Nass Head  
1635 WLAP 94.5 KY Louisville  
1638 WKRR 92.3 NC Asheville  
1649 WCOL 92.3 OH Columbus  
1659 WZRD 96.5 OH Hamilton  
WHRZ 97.7 KY Providence  
WMMG 93.5 KY Brandenburg  
1701 WKYK 104.1 IN Evansville  
1705 WCBL 102.3 KY Benton  
1706 WZKS 103.9 KY Louisville  
1711 WDFX 94.9 OH Fairfield  
1721 WJIE 88.5 KY Okolona  
1320 WTTT 92.3 TN Bloomington  
1953 XHRM 92.5 BCN Tijuana

## August 1991 (CST)

## 1: (Es)

0822 WHWC 88.3 WI Menomonie  
0830 KBEM 88.5 MN Minneapolis

## 2: (Es)

1920 KLOS 95.5 CA Los Angeles  
1921 KBIG 104.3 CA Los Angeles  
1923 KKBK 92.3 CA Los Angeles  
1925 KCLB 93.7 CA Coachella  
1928 KTUV 94.7 CA Los Angeles  
1931 KFDX 93.5 CA Redondo Beach  
1936 KSBK 88.5 CA Mission Viejo  
1944 XHMMF 92.3 BCN Mexicali  
1949 XHJC 91.5 BCN Mexicali  
1951 XHRM 92.5 BCN Tijuana  
1955 KRMX 94.9 CA San Diego

## 7: (Es)

0846 XHRM 92.5 BCN Tijuana  
0848 KFDX 93.5 CA Redondo Beach  
0849 KPWR 105.9 CA Los Angeles  
0853 XETRA 91.1 BCN Tijuana  
0854 KZLA 93.9 CA Los Angeles  
0857 KKBK 92.3 CA Los Angeles  
0904 KLOS 95.5 CA Los Angeles

## Dyer, cont.

0905 KSBK 88.5 CA Mission Viejo  
0910 KOTR 94.9 CA Cambria  
0912 KDDB 92.5 CA Paso Robles  
0913 KAVS 97.7 CA Mojave  
0915 KXXZ 95.3 CA Barstow  
0919 KZID 92.7 CA Ridgecrest  
1100 RB 1 88.9 Bze Belize City  
1224 KSDY 95.1 SD Deadwood  
1233 KRCS 93.1 SD Sturgis  
1247 KGFY 92.7 SD Pierre  
1250 KQDY 94.5 ND Bismarck  
KBVZ 96.5 ND Bismarck  
1251 KBRB 92.7 NE Ainsworth  
1424 KSCR 93.5 MN Benson  
1437 KRKZ 93.5 OK Altus

## 11: (Es)

1654 WSSX 95.1 SC Charleston  
1659 WFCH 88.5 SC Charleston  
WDCD 89.7 GA Cochran  
1713 WKQL 96.9 FL Jacksonville  
1820 WEDW 92.5 FL Key West  
1900 WNCU 89.7 FL Miami  
1955 CMHW 93.5 Cub Santa Clara

## 12: (Es)

1830 WCLQ 89.5 WI Wausau  
1839 WOLX 94.9 WI Baraboo  
1925 KQRS 92.5 MN Golden Valley  
1927 KJJY 92.5 IA Ankeny

## 13: (Es)

1419 WJNR 101.5 MI Iron Mountain  
1423 WJPD 92.3 MI Ishpeming  
1559 WGNV 88.5 WI Milladore

## 23: (Es)

1455 WVPN 88.5 WV Charleston  
1459 WZAC 92.5 WV Danville  
1500 WBTQ 93.5 WV Buckhannon  
1504 WFGM 97.9 WV Fairmont  
1505 WVSC 97.7 PA Somerset  
1507 WCMY 92.7 KY Catlettsburg  
1508 WDSY 107.9 PA Pittsburgh  
1511 WXIL 95.1 WV Parkersburg  
1513 WPAY 104.1 OH Portsmouth  
1514 WKOS 96.5 PA Johnstown  
WKDD 96.5 OH Akron  
1515 WNCI 97.9 OH Columbus  
1518 WNCX 98.5 OH Cleveland  
1519 WOVK 98.7 WV Wheeling  
1520 WWSW 94.5 PA Pittsburgh  
1523 WCEZ 107.9 OH Delaware  
1527 WTTT 92.3 IN Bloomington  
WAMO 105.9 PA Pittsburgh  
1530 WTPJ 107.9 IN Indianapolis  
1531 WVKR 92.5 OH Toledo  
CKSY 95.1 ON Chatham  
1534 WLCB 104.1 IN Muncie  
1535 WXXR 94.5 OH Port Clinton  
1538 WQTL 106.3 OH Ottawa  
1540 WOLR 95.7 OH Pelee  
1541 WRJS 98.5 PA Oil City  
1543 WCVG 104.9 OH Gahanna  
1544 WDBA 107.3 PA Du Bois  
1546 WJXG 105.1 MI Jackson  
1547 WNNW 98.5 MI Coldwater  
1551 WCRZ 107.9 MI Flint  
1554 CKMR 93.9 ON Windsor  
1557 WCRC 95.7 IL Effingham  
1600 WNEC 94.5 NY Buffalo  
1601 WTLC 105.7 IN Indianapolis

## JANUARY 1992

## SOUTHERN FM DX

## Aug. 23 (Es)

1605 CHRE 105.7 ON St. Catherines  
1607 WGMN 98.1 WI Madison  
1612 WAJI 95.1 IN Fort Wayne  
1614 WPRE 94.3 WI Prairie du Chien  
1612 WZRO 96.5 OH Hamilton  
1620 WQWZ 103.9 PA Mercer  
1624 WRRR 93.9 WV St. Marys  
1624 WGMX 94.9 OH Medina  
1625 WBBY 103.9 OH Westerville  
1628 WQAL 104.1 OH Cleveland  
1631 CJBX 92.7 ON London  
1636 WLOR 101.5 OH Toledo  
1641 WCLV 95.5 OH Cleveland  
1652 WKKG 101.5 IN Columbus  
1654 WDFX 94.9 OH Fairfield  
1700 WRKU 95.1 PA Grove City  
1701 WVNO 105.1 OH Mansfield  
1706 WSWD 102.3 OH Wilmington  
1720 WSHH 99.7 PA Pittsburgh  
1725 WLAP 94.5 KY Lexington  
1727 WINC 92.5 VA Winchester  
1729 WEMM 107.9 WV Wheeling  
1742 WTNJ 105.9 WV Mount Hope  
1748 WXCC 96.5 WV Williamson  
1750 WOLA 104.9 TN La Follette  
1751 WMOG 106.1 MD Cumberland  
1750 WQHY 95.5 KY Prestonsburg  
1800 WLTL 93.5 TN Lenoir City  
1813 WXTR 104.1 MD Waldorf  
1818 WRVQ 94.5 VA Richmond  
1821 WXIS 103.9 TN Erwin  
1822 WVAF 99.9 WV Charleston  
1825 WRSE 105.7 NC Columbia  
WFLD 95.7 VA Farmville  
1829 WTOR 104.1 NC Winston-Salem  
WLWZ 103.9 SC Easley  
1874 WBSF 96.5 VA Williamsburg  
1875 WTDR 96.9 NC Statesville  
1877 WLGO 97.9 NC Gaston  
1880 WKHX 101.5 GA Marietta  
1883 WBT 107.9 NC Charlotte  
1889 WKRR 92.3 NC Asheville  
1891 WZLI 106.1 GA Toccoa  
1892 WNNC 103.9 NC Fuquay  
1894 WYFL 92.5 NC Henderson  
WZU 93.9 NC Burlington  
1900 WLTY 95.7 VA Norfolk  
1902 WXRC 95.7 NC Hickory  
1903 WPEG 97.9 NC Concord  
1916 WRNS 95.1 NC Kinston  
1919 WKTC 96.9 NC Goldsboro  
1927 WJMX 103.3 SC Cheraw  
1936 WVAI 104.1 GA Marietta  
1938 WVES 99.9 NC Burgaw  
1936 WBSX 95.1 SC Charleston  
1941 WKOD 98.7 NC Jacksonville  
2015 WHLZ 92.5 SC Manning

## 29: (Es)

1727 WRJA 88.1 SC Sumter  
1746 WSSX 95.1 SC Charleston

## 27: (Es)

1104 XHGRO 92.5 NL Monterey (tr)  
1116 TG-- 88.5 Gua  
1115 TGFP 88.1 Gua Guatemala City  
1130 YS-- 98.5 EIS San Salvador  
1156 TG-- 98.9 Gua  
1200 TURT 88.8 Gua Guatemala City  
1204 TG-- 94.5 Gua

## Dyer, cont.

## Sept 1991

## 3: (Es)

1349 WAPU 88.5 DC Washington  
2059 WVDN 88.5 WV Charleston  
2122 WZOO 92.3 KY Hyden  
2131 WXCC 96.5 WV Williamson  
2142 WPTW 89.7 DC Washington  
2159 WKRR 93.7 NC Asheville

## Oct 1991

## 1: (Es)

1755 WQZN 98.7 FL Key West  
1756 WEOU 92.5 FL Key West  
1801 WKRY 93.5 FL Key West  
1802 WCMQ 92.3 FL Hialeah  
WNCU 89.7 FL Miami  
1817 WGYL 93.5 FL Vero Beach  
1843 WRMF 97.9 FL Palm Beach  
1850 WKPX 88.5 FL Sunrise  
1920 WRGF 93.5 FL Belle Glade

## 14: (tr)

0728 WRBH 88.3 LA New Orleans

## 18: (tr)

0026 WYRK 101.5 LA Baton Rouge  
0713 WCKW 92.3 LA Laplace  
0740 KLSA 90.7 LA Alexandria  
KLDN 88.9 TX Lufkin  
0747 KGRM 91.5 LA Grambling  
KDAQ 89.9 LA Shreveport

## 20: (Es)

0838 WKPX 88.5 FL Sunrise  
0856 KYKR 93.3 TX Port Arthur (tr)  
0859 WMCU 89.7 FL Miami  
1146 WHCT 88.5 GA Savannah  
1209 WSSX 95.1 SC Charleston  
1223 WWHZ 93.5 SC Summerville  
1225 WXTG 95.9 SC Charleston  
1229 WFCH 88.5 SC Charleston

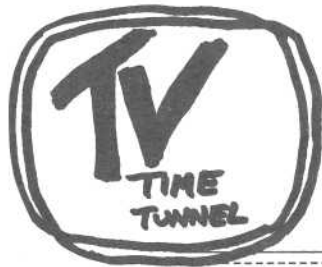
## Nov 1991 (CST)

## 5: (Es)

1426 WFGM 97.9 WV Fairmont  
1428 WZAC 92.5 WV Danville  
1432 WBES 94.5 WV Dunbar  
1433 WEMM 107.9 WV Huntington  
1435 WKGO 106.1 MD Cumberland  
1438 WBTQ 93.5 WV Buckhannon  
1439 WXCC 96.5 WV Williamson  
1441 WSIG 96.9 VA Mt. Jackson  
1443 WRVC 93.7 KY Ashland  
1445 WTCR 103.3 WV Huntington  
1447 WTNJ 105.9 WV Mt. Hope  
1448 WIFX 94.3 KY Jenkins  
1452 WLZT 107.3 WV Miami  
1456 WQPO 100.7 VA Harrisonburg  
1459 WONE 99.3 WV Eikins  
1506 WSIP 98.9 KY Paintsville  
1517 WKCB 107.1 KY Hindman  
1518 WOBG 105.7 WV Salem  
1520 WJYP 100.9 WV S. Charleston  
1521 WVAF 99.9 WV Charleston  
WKLC 105.1 WV St. Albans  
1522 WJRS 104.9 KY Jamestown  
1527 WAYZ 101.5 PA Waynesboro

## Nov. cont. next month...





H A P P Y   N E W   Y E A R   ! ! !

From your 'Time Tunnel' Editor:  
TOM BRYANT  
849 TODD PREIS DRIVE  
NASHVILLE, TN 37221  
615-646-2000

### OFF - THE - AIR PICKUPS

**WHAT WERE THEY, AND WHY DID THEY EXIST?:** Although there probably aren't any 'off-air' pickups used for primary network service today, they were commonplace in rural areas in the 50s and 60s. While the major markets were served by ATST microwave feeds; stations in smaller locales often could not afford ATST's rates, or in some cases, ATST service simply wasn't available. No matter what the situation, the need for live network interconnection had to be met; and construction of a private microwave link was usually the answer.

For this account, I'll rely on memory to relate the story of how the NBC television network originally made it into North Dakota.

WDAY-tv (6) in Fargo was a primary NBC affiliate. For whatever reason, ATST service was not a viable option, so the WDAY people chose an off-the-air pickup. The first step was a tower about 30 miles from the KSTP-tv (Minneapolis) transmitter. A pair of stacked yagis received the channel 5 signal which was then fed into a microwave transmitter and relayed on to the next tower about 30 miles to the northwest...and so on...until the KSTP-tv signal arrived at the WDAY-tv studios some 200 air miles from Minneapolis.

The next segment of this system was owned by the Meyer Broadcasting Co. of Bismarck which had an off-air receiver about 30 miles west of Fargo, and about 5 microwave hops to the KFYZ-tv transmitter site 10 miles east of Bismarck. Meyer later extended the system to KMOT in Minot with an off-air pickup of KFYZ-tv...and to KUMV-tv in Williston utilizing an off-air pickup of KMOT.

Considering the circumstances, these privately owned off-air pickups and associated microwave systems were relatively reliable. Although the relay towers were unmanned, a warning system pinpointed trouble spots and an engineer could usually reach any relay tower in less than two hours.

**HOW DID THEY WORK?:** A monitor in the WDAY-tv master control room was dedicated to the off-air KSTP-tv microwave pickup. The engineer on duty simply watched to see when Minneapolis originations ended, then punched up the circuit to feed the Fargo transmitter.

The Bismarck crews had a more challenging setup. Economics did not allow an additional hop to get a video signal into the studios. Instead, the audio portion of the microwave receiver was fed to the studios over a telephone line to a headset in master control. The master control operator could hear...but not see...the network video source!

Using the clock, an absence of audio on the headset monitor, and intuition; the switch to NBC was made 'flying blind'. If everything down the line was on schedule, viewers were unaware of the quirks of the system. If KSTP was running late, WDAY would hold their ID on screen with no audio until NBC programming began. The guys at KFYZ would assume that since they were hearing no Fargo audio...and the clock was correct

(continued - next page)

for a network 'hit'.. often punched up the off-air link only to find a huge WDAY-tv slide staring them in the face..and being transmitted in all its' glory on KFYZ-tv!

**COLOSSAL BLUNDERS:** As you might have speculated, WDAY-tv IDs popped up frequently on KFYZ-tv. That, however, wasn't all that went wrong. Every now and then the ATST link between Chicago and Minneapolis would conk out, and KSTP-tv would display a network trouble slide sporting their call letters. This would catch everyone off guard; and as a result, KSTP would show up on all stations to the west. I should point out that KMOT and KUMV were able to monitor both audio and video from their respective off-air feeds; thus transient ID's (particularly from WDAY-tv) were seldom seen in Minot and Williston.

One weekend in the summer of 1959 I decided to drive up to Minot and Williston to take a look at the KFYZ-tv satellite stations (I was employed by KFYZ at the time). While in the control room at KUMV, I witnessed one of the most mind-boggling ID displays of all time. KSTP-tv had interrupted an NBC program with a severe weather warning slide (containing their logo) and was about five seconds into a voice-over description of the potential storm hazard when the WDAY crew zapped it with an ID slide of their own. Next came a KFYZ-tv ID slide, then one from KMOT; and finally...the guy in Williston punched up a KUMV ID slide. All this happened within a ten second time frame...but it seemed like an eternity. It was quite a sight!

**OFF THE AIR?:** Perhaps the most unusual occurrence I witnessed with regard to off-air pickup operation took place in the summer of 1957. Without warning, the WDAY-tv transmitter went off the air..and stayed off! That, of course, meant a disruption of NBC service to the three stations west of Fargo. KFYZ-tv popped up a trouble slide until the program director showed up with a half-hour travelogue film to kill time. The filler stuff continued for another hour, then we loaded a feature film to really eat up the time. Meanwhile the front office had been in touch with WDAY and learned that their transmitter man had found the trouble, but that they didn't have a spare part on hand. Later in the day WDAY advised us that the faulty component was indeed an odd duck...RCA didn't have a replacement either! As a result, WDAY was off the air for over two days while the elusive part was flown in from Austria!

While filler programming continued to grind through the film projectors in Bismarck, the master control operator noted the presence of NBC audio on his headset. What was going on? A call to the KFYZ-tv transmitter engineer verified that there was NBC video on the off-air link; but that it was from WDSM-tv (also on 6) in Duluth.

You guessed it! Tropo conditions were up full blast, and the 250 mile distant WDSM-tv signal was hitting the high gain off-air receiver west of Fargo like a local!

No one had run into a situation like this before...NBC was available via the Duluth signal...but could we carry it? After some frantic calls to the FCC, NBC in New York, and WDSM; we were assured that it would be OK to use the unusual source on an emergency basis as long as the signal strength was adequate.

Well, we went back to NBC via the WDSM signal at the next regular break...and with the exception of a couple of hours (when severe fading occurred) we carried the unorthodox NBC source for the better part of two days. Oddly enough, there never appeared to be any CCI from Duluth on the off-air pickup when WDAY-tv was on.

Eventually the off-air systems gave way to ATST feeds, which in turn were rendered obsolete by satellite distribution. Although a few regional networks continue to use terrestrial microwave between their affiliates; the days of the off-the-air pickup (with the exception of a few LPTV's) remain only as oddities in the pages of television history.

N E X T   M O N T H :      "M a p l e   L e a f   M e m o r i e s"



# STATISTICS

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

AS OF: 12/09/91

STATS STATS  
USA

FM STATISTICS

UPDATED 12/ 9/91

ALL-TIME FM SCOREBOARD

DXER NAME		DXER LOCATION		TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS OF:
DYER	PAT	TX	SAN ANTONIO	2521	400	2060	65	0	44+	4	21	5	75	70	11/30/91
STROBEL	RALPH	IN	MUNCIE	2016	532	654	155	6	43+	7	2	2	55	72	09/28/91
BUNTIH	DANNY	OK	STILLWATER	1900	317	1146	4	0	48+	5	9	2	65	74	09/01/90
ELVING	BRUCE	MN	DULUTH	1734	317	1365	9	8	47+	4	1	0	53	48	02/07/91
EBELING	JOHN	MN	BLOOMINGTON	1674	286	973	46	83	47+	6	5	0	59	52	01/01/91
FELA	JOSEPH	NJ	S. PLAINFIELD	1612	335	869	2	9	37+	6	0	3	47	68	10/12/91
BUGAJ	MIKE	CT	ENFIELD	1592	217	873	23	23	37+	5	1	2	46	74	11/21/91
PUGH	KEITH	AL	NEW HOPE	1590	238	811	44	3	43+	7	10	2	63	83	09/08/90
NORDQUIST	FRED	NY	CLAY	1573	319	776	44	59	41+	5	0	3	50	69	12/09/91
NIEMAN	DAVID	NY	AKRON	1377	376	417	48	24	43+	8	0	3	55	59	12/23/90
MCCORMACK	FRED	ND	FARGO	1339	305	990	3	52	48+	6	3	0	58	74	08/03/90
SEYBOLD	BOB	NY	DUNKIRK	1326	212	611	0	2	45	8	3	3	59	58	06/24/90
CONIGLIO	GREG	NY	WILLIAMSVILLE	1224	202	624	13	10	37+	8	1	3	50	85	01/01/91
EBELING	JOHN	MN	PROSIT	1137	212	763	3	5	48+	9	2	0	60	75	01/01/91
JEFFERSON	JOHN	CA	ANTIOCH	1130	250	662	160	0	29	4	5	0	38	74	10/17/90
BRUMFIELD	DAVE	IN	RICHMOND	897	165	325	15	0	36	4	2	2	44	81	09/01/91
SMOLAREK	BOB	NJ	OLDWICK	890	149	385	2	0	36+	3	0	1	41	78	02/18/91
HOLBROOK	HANK	MD	CHEVY CHASE	866	224	234	18	0	35+	6	0	3	45	59	10/05/91
MICHALEK	ALAN	MA	SPRINGFIELD	812	106	495	0	0	36+	5	0	0	42	52	10/01/90
OETTING	DANIEL	PA	EXTON	756	190	250	9	2	34+	6	0	0	41	77	06/07/91
ALLEN	DOUGLAS	CO	WOODLAND PARK	711	116	489	44	0	39	4	3	0	46	88	10/30/90
GREENE	GEORGE	OH	AKRON	706	54	234	0	0	33+	3	0	0	37	71	03/09/91
ROSS	ROBERT	ON	LONDON	682	185	280	0	0	33	6	0	3	42	76	02/11/91
BRUMFIELD	DAVE	IN	MUNCIE	682	149	65	1	0	29	1	1	0	31	79	03/01/90
HALL	D. BRUCE	ON	BRANTFORD	503	95	10	55	2	34	4	0	1	38	90	12/04/91
NIENAJADLY	BILL	NJ	CLIFTON	501	96	169	5	0	34+	2	0	0	37	75	07/11/90
SHAFTON	RICHARD	NJ	ROCKAWAY	459	116	142	0	0	30+	3	0	0	34	78	06/29/90
MEADE	LARRY	IL	CHICAGO	459	85	55	6	0	23	2	0	0	25	79	09/05/90
NOLLMAN	BILL	CT	NORWICH	453	46	155	17	0	31+	9	0	1	35	81	11/24/91
SITTEL	MATT	NC	RALEIGH	330	49	58	0	2	16+	1	1	0	19	88	06/09/91
HEPBURN	WILLIAM	ON	BRAMPTON	309	183	83	1	6	21	2	0	1	24	85	11/10/91
BRANDENBURG	TODD	KS	SILVER LAKE	300	46	32	0	1	24	0	0	0	23	80	09/02/90
MANCUSO	GUS	MD	CHEVERLY	259	41	31	0	0	22+	0	0	0	24	70	03/26/91
MANCUSO	GUS	WV	BIRCH RIVER	228	20	4	0	0	15	0	0	0	15	87	03/26/91
HAWK	MIKE	NE	OMAHA	211	36	4	1	0	9	1	0	0	10	91	08/19/91
RENPREW	JIM	NY	ROCHESTER	185	37	2	0	0	6+	2	0	0	20	9	06/15/91
MEADE	LARRY	KY	PRICE	165	35	0	14	0	10+	0	0	0	11	79	09/05/90
WISSELER	FRANK	PA	ERIE	162	23	2	0	0	8	1	0	0	9	64	08/20/90
ONYSCHUK	KEN	IL	RIVERDALE	141	30	0	0	0	7	0	0	0	7	68	06/30/91

\* VERIFIED.

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es = Total number of stations logged via E-skip. MS = Total by meteor scatter. Au = Total via Aurora. USA = Total number of states and the "\*" = Washington, DC. CN = Number of Canadian provinces logged. MX = Number of Mexican states logged. FO = Number of foreign countries, but not Canada or Mexico. TPU (Total number of political units) = Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in AUGUST 88 VUD Page 48. Date cutoff: 1989. 73 - Fred

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	KEY TO DXER INITIALS/LOCATION
AL	106	KPU-	56	JEB-	LA	72	RSA-	63	BEL2	OH	220	RST-	177	FME-	AMI- ALAN MICHALEK MA SPRINGFIELD
AK	11	JJE3	0	None	ME	40	RST2	30	KPU-	OK	122	DBU-	51	FNO-	BEL2 BRUCE ELVING MN DULUTH
AZ	49	PDY-	36	JJE2	ND	54	JFE-	48	GNA-	OR	31	JPI-	29	FM2	DAL- DOUG ALEEN CO WOODLAND PARK
AR	86	DOD-	61	VEE-	MA	94	RST2	77	ABU-	PA	157	DWI-	133	FNO-	DBR- DAVE BRUMFIELD IN MUNCIE/RICHMOND
CA	360	JJE2	126	PDY-	MI	156	RST-	139	FAC-	RI	14	WNO-	12	RST2	DBU- DANNY BUNTIH MD STILLWATER
CO	107	DAL-	69	JJE2	MN	169	JEB-	155	JER2	SD	54	MS11	53	PDY-	DWI- DAVID NIEMAN NY AKRON
CT	49	ABU-	42	AMI-	MS	78	KPU-	64	TMC-	SD	39	KPU-	35	JJE2	DOD- DAVID ODELL AR LITTLE ROCK
DE	13	DDE-	11	JFE-	MD	118	FME1	84	DBU-	TN	110	KPU-	93	JAY-	DGE- DANIEL OETTING PA BROOMALL
FL	152	PDY-	146	DBU-	AT	29	JJE2	25	JPI-	TX	303	PDY-	211	RSA-	FAC- FRED MCCORMACK ND DES LACS
GA	102	KPU-	97	PDY-	NE	57	MHA-	50	JJE2	UT	29	PDY-	22	DBU-	FAC2 FRED MCCORMACK MD FARGO
HI	0	None	0	None	NV	24	PDY-	24	DBU-	VT	14	KPU-	13	AMI-	FME- FRANK MERRILL RI MCLAN
ID	28	DBU-	26	PDY-	NH	27	RST2	17	AMI-	VA	61	MS11	60	JFE-	FME1 FRANK MERRILL IL MACOMB
IL	198	FME1	196	RST-	NJ	75	JFE-	69	RSM-	WA	46	FAC2	30	JJE2	FNO- FRED NORDQUIST NY CLAY
IN	180	RST-	132	DBR-	NM	45	JJE2	44	KPU-	WV	39	RST-	33	FME-	GNA- GUS MANCUSO MD CHEVERLY
IA	120	RBR-	102	JEB-	NY	209	FNO-	172	DWI-	WI	136	BEL2	120	JEB-	JAY- JIM AYERS TN WARRENSBORO
KS	89	DBU-	78	TBR-	NC	117	MS11	79	PDY-	WY	26	RST-	25	PDY-	JEB- JOHN EBELING MN BLOOMINGTON
KY	101	RST-	69	DBR-	ND	34	FAC-	34	FAC2	DC	13	GNA-	13	DWI-	JEB2 JOHN EBELING MN PROSIT

CANADA/MEXICO/FOREIGN STATS

PU	#	-DXER	#	-DXER	PU	#	-DXER	#	-DXER	PU	#	-DXER	#	-DXER	KEY TO DXER INITIALS/LOCATION
CANADA															
AB	28	JEB2	26	JJE2	CHI	8	FME1	6	FAC-	MEXICO (CONT)	0	None	0	None	JPI- JIM PIZZI CA NEWCASTLE
BC	20	JJE2	11	JEB2	CHP	3	PDY-	0	None	SON	4	PDY-	3	JJE2	JPI- JIM PIZZI CA GRCUTT
MB	15	FAC-	13	FAC2	COA	8	FME1	6	PDY-	TAB	2	FAC-	2	PDY-	KPU- KEITH PUGH AL NEW HOPE
NB	9	FME1	6	RST-	DF	21	FAC-	21	JPI-	TAM	8	PDY-	6	KPU-	LAE- LARRY MEADE IL CHICAGO
NF	13	FNO-	12	DWI-	DUR	1	PDY-	0	None	VCZ	9	JPI-	6	KPU-	RRU- MIKE BUGAJ CT ENFIELD
NS	15	FME1	9	KPU-	GRO	5	PDY-	1	JPI-	YUC	2	JPI-	2	PDY-	MHA- MIKE HAWK NE GNA-PA
ON	114	DWI-	80	FNO-	GTO	9	JPI-	2	FAC-						MSI- MATT SITTEL TN KINGSPORT
PEI	2	JFE-	2	RST-	HGO	1	JPI-	0	None	FOREIGN					MS11 MATT SITTEL NC RALEIGH
PQ	28	FME1	26	DWI-	JAL	12	TMC-	10	PDY-	CUBA	6	RST-	5	FME1	PDY- PAT DYER TX SAN ANTONIO
SK	9	JJE2	8	FME1	MEX	3	JPI-	3	PDY-	BELIZ	3	PDY-	1	JPI-	RBR- ROGER BROWN IA AMES
WMT	1	WHE2	1	JEB2	MIC	3	JPI-	1	PDY-	BERMU	3	DWI-	2	FNO-	RSR- RICK SAMPFORD TX BURNETT
					POR	5	PDY-	3	JPI-	EL SA	4	PDY-	1	KSI-	RSC- ROBERT SCHWEITZER NJ E BRUNSWICK
					DAL	16	PDY-	14	KPU-	GURTE	12	PDY-	4	KSI-	RSR- ROBERT SMOLAREK NJ OLDWICK
MEXICO					AX	1	JPI-	1	PDY-	HONDU	2	KSI-	2	PDY-	RST- RALPH STROBEL IN MUNCIE
AGU	1	JPI-	0	None	DAY	1	PDY-	0	None	JAMA1	14	KPU-	3	JPI-	RST2 RICHARD STEINBERGER MA HUDSON
BCN	14	PDY-	10	FAC-	HAY	1	PDY-	0	None	JAMA1	14	KPU-	3	JPI-	SCH- SAUL CHERNOS OH BURNT RIVER
BCS	1	PDY-	0	None	PUE	5	PDY-	4	TMC-	PUERT	4	KSI-	1	DWI-	SME- STEVE WEST PA HAVERTOWN
CAM	1	JPI-	0	None	SIN	2	JJE2	1	DBU-	D.REP	1	KSI-	0	None	TBR- TODD BRANDENBURG KS SILVER LAKE
										BAHAN	1	FNO-	1	WNO-	TAC- TIM MCVEY TN BOLIVAR
															VEA- VERNON EATON AR BENTON
															WNO- WILLIAM NOLLMAN CT GLASTONBURY
															WHE2 WILLIAM HEPBURN NT CORAL HARBOR

ABOUT OUR COVER...Thanks to VUD PHOTO NEWS' editor Dave Nieman for the great cartoon on this month's issue...kudos also to the following DXers for contributing to recent VUD covers: Troy Mimms and NorSat Services (OCTOBER 1991 V.U.D.) Mike Cherry, Vancouver BC, via NORTHERN FM's Greg Coniglio (NOVEMBER 1991 V.U.D.). Some additional layout work was provided by Bob Twomey and Bill Thompson. Also...upcoming V.U.D. covers will feature material from the extensive coverage map collection of FCC FM NEWS' editor Bruce Elving!

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

Following up on my Oct 91 VUD column concerning requests for printouts of Distances between DXer's location and cities in North & Central America (and Caribbean). I've refined the program to print (on 10 pages) distances (in miles) for 4853 cities in 79 political units, including all locations listed in the WFDRA North American TV Data Base and FM Atlas (Part I Listing) as well as Caribbean countries with TV/FM stations listed in WRTVH. A \$2.00 donation to cover costs of mailing and printing will get you your personalized listing. Also include with your request the Great Circle Coordinates of your DX location. 73 - Fred.

Recently, Eric Voytko kindly sent this list to my ETVDX column. I felt this list is of great help in possibly IDing some DX catches. So I am submitting this list courtesy of Eric to the VUD. One note though, John Combs of Tallahassee Florida said not all stations carrying Channel America run it all the time. Some might only carry CHA for only a few hours a night or so, still hopefully this can be of use to all of you-Bill Nienajadly

**CHANNEL AMERICA LPTVS AND FULL POWER STATIONS AS OF OCTOBER 2, 1991**

By ERIC VOYTKO

The good people at Channel America were kind enough to send me a current station listing. I have re-organized them from NSI ranking to State and City of License

**ARIZONA**

K25DM Phoenix

**CALIFORNIA**

K66CY Arroyo Grande  
 KKAK-61 Bakersfield  
 K67DY Chico  
 K38CW Palmdale  
 KAGL-30 San Bernardino

**COLORADO**

K38DF Aurora

**FLORIDA**

W42AM Daytona  
 W07BR Fort Meyers  
 W09BS Naples  
 W69AX Perry  
 W35AJ St. Petersburg  
 W09BI Tallahassee

**GEORGIA**

WNGM-34 Athens  
 W67BE Augusta  
 WSST-55 Cordele  
 W35EB Dublin  
 W67CI Roswell  
 W55AW Savannah

**ILLINOIS**

W30AL Plano  
 K45AJ Rockford

**INDIANA**

W07CL Auburn  
 W52AZ Evansville

**IOWA**

K39AS Marshalltown

**KANSAS**

K06KZ Junction City

**KENTUCKY**

W07BY Morehead  
 W10EM Morehead  
 W02BP Mt. Sterling  
 W06BC Mt. Sterling  
 W46BE Murray

**LOUISIANA**

W47DW Alexandria  
 WGBB Baton Rouge  
 K13VG Jennings  
 K62DW Lafayette  
 W61AZ New Orleans

**MAINE**

W57AP Portland

**MARYLAND**

W52AX Leonardtown

**MASSACHUSETTS**

WMFP-62 Lawrence

**MICHIGAN**

W26AB Detroit  
 W40AK Norton Shores

**MINNESOTA**

K13UT Minneapolis

**MISSISSIPPI**

W20AD Philadelphia  
 W11BU Webb

**MISSOURI**

K35CO Cameron  
 K02NQ Columbia  
 K07TV St. Louis  
 NEBRASKA  
 K67CV Lincoln

**NEW YORK**

W58AV Buffalo  
 W08CJ Glen Falls  
 W15AS Oneata  
 W40AG Rochester  
 W14AE Syracuse

**NORTH CAROLINA**

WAAP-16 Burlington  
 W34AX Henderson  
 W53AD Lenoir  
 W68BK Raleigh  
 W20AT Roanoke Rapids  
 W10BZ Wilmington

**OHIO**

W29AI Akron  
 W59BP Ashland  
 W25AI Cincinnati  
 W56CA Delaware  
 W48AP Toledo

**OKLAHOMA**

K28DE Broken Bow  
 W07TX Oklahoma City  
 W27AK Ponca City

**OREGON**

K38CP Medford

**PENNSYLVANIA**

W47AO Berwick  
 W40AP Dillsburg  
 W08CC Hammonon  
 W35AO Hazelton  
 W63AU Pittsburgh  
 W09BI Williamsport

**TENNESSEE**

W18AN Harrogate  
 W12BU Heiskell  
 W27AN Murfreesboro

**TEXAS**

K07UD Corpus Christi  
 K50AO Corpus Christi  
 KJLF-65 El Paso  
 K54CB Mt. Pleasant  
 K67DW San Antonio

**UTAH**

K55DL St. George

**VIRGINIA**

W51BH Gloucester  
 W68BI Norfolk

**WASHINGTON**

KCWT-27 Wenatchee

**WEST VIRGINIA**

W55AT Huntington

**WISCONSIN**

WHKE-55 Kenosha  
 W43AV Waukesha

ANTENNAS

- 008 YAGI ANTENNA FOR VIDEO SIGNALS BELOW CH. A2 - Thompson, 38 Dec 79 (1)
- 027 SIMPLE MAST REINFORCEMENT - Thompson, 17 Jun 81 (1)
- 031 UNDERSTANDING FM ANTENNA SPECS - Thompson, 32 Jly 81 (1)
- 038 LOOPS, EARS, AND DX - Grant, 22 Dec 81 (1)
- 044 MODIFYING THE PINCO P-7 PARABOLIC DISH - West, 24 May 82 (2); 52 Oct 82 (2)
- 045 STAGGER STACKING ANTENNAS - Thompson, 24 Jun 82 (5)  
 practical information on stacking 2 or more arrays for more gain
- 051 THE HOVERMAN ANTENNA (for UHF TV) - Thompson, 58 Sep 82 (2)
- 059 EXPERIMENTS WITH A HOMEBREW YAGI ANTENNA - Thompson, 26 Mar 83 (1);  
 30 Apr 83 (1); 39 Jan 84 (1)
- 094 DX'ing WITH INDOOR ANTENNAS - Manucci, 28 Jun 87 (2)
- 114 A BETTER UHF DISH FEED? - Thompson, 20 May 89 (2)
- 123 A HOMEBREW ANTENNA FOR VIDEO SIGNALS BELOW 54 MHz - Prosee, 32 Apr 90 (2)
- XXX See Also "ANTENNA NEWS" column...

EQUIPMENT REVIEWS

- 005 BEARCAT SCANNERS (Models 210 & 250) - O'Connor, 6 Sep 79 (3)
- 018 AKAI AT-V04 FM TUNER - Sawatzky, 46 Oct 80 (6)
- 022 DIGITREX ELECTRONICS PA-19 PREAMP - Wilson, 23 Mar 81 (1)
- 032 RADIO SHACK #15-1134 UHF PREAMP - Thompson, 45 Aug 81 (1)
- 029 JERROLD ST0-82, "THE BEST UHF BALUN" - Thompson, 31 Jun 81 (1)
- 042 YAMAHA T-2 FM TUNER - DeFilippo, 42 Mar 82 (3)
- 047 BLONDER-TONGUE UHF TV PREAMPS - Thompson, 22 Jly 82 (1)
- 048 MAGNUM #2001 CAR FM PREAMP - Thompson, 37 Jly 82 (1)
- 050 RAYSON "HI-PERFORMER II" UHF PREAMP - Thompson, 54 Aug 82 (2)
- 060 CARVER TX-11 FM TUNER - Thompson, 30 Jun 83 (3); 56 Aug 83 (2)
- 062 DX ANTENNA UHF TV PREAMP - Pizzi, 12 Aug 83 (3)
- 071 CHANNEL MASTER PROBE NINE FM ANTENNA - Thompson, 25 Sep 84 (1)
- 076 ALLIANCE HD-73 ROTOR - Wertman, 45 Sep 85 (1)
- 078 CHANNEL MASTER 7206 HI-Q TUNABLE UHF TRAP - Wertman, 40 Dec 85 (1)
- 079 ONKYO T-9090 FM TUNER - Buntin, 5 May 86 (2)
- 080 TEKNIKA 6510 UHF TV TUNER - Wertman, 32 May 86 (2);  
 - Thompson, 42 Jun 86 (2)
- 096 ANTEENNA NEWS - Wertman, 71 Sep 87 (1)  
 about the Channel Master 9520 rotor
- 100 SOME ANSWERS: BEST GEAR FOR TV & FM - Walczak, 39 Nov 87 (1)
- 105 1988: LEAP YEAR FOR FM TUNER PERFORMANCE - staff, 38 May 88 (1)
- 130 A USER'S REVIEW OF THE ICOM R-7000 - Mims, 34 Jan 91 (1)

F<sub>2</sub> PROPAGATION

- 004 ALL ABOUT F2 SKIP - Thompson, 8 Aug 79 (5); 8 Oct 79 (3)
- 006 HOME-BREW CONVERTER FOR F2 TV DX - Pulice, 8 Sep 79 (3)
- 009 SUPER SIMPLE SYSTEM FOR BBC VIDEO - Goldman, 7 Jan 80 (1)
- 015 TRANSATLANTIC F2 TV DX TIPS - Pulice, 40 Aug 80 (3)
- 034 MORE F2 TV DX? - Thompson, 46 Sep 81 (1)
- 109 F2 SKIP...GET READY - Stock, 42 Oct 88 (1)
- 111 TIPS FOR F2 TV DX'ing - Turcsany, 43 Dec 88 (1)
- XXX See Also RECEPTION REPORTS...

FM SCA (Subsidiary Communications Authorization)

- 001 SCA: RADIO THE FCC DOESN'T WANT YOU TO OWN - Elving, 25 Jly 77 (5);  
 13 May 84 (1) notes on installing SCA decoders
- 065 SCA PAGING - Elving, 28 Nov 83 (2)
- XXX See Also "TECHNICAL TOPICS" column...

INTERNATIONAL BROADCASTING

- 012 DX AROUND THE WORLD - Taylor, 22 Jun 80 (3)  
 the author describes FM in Egypt, S. Africa, Hong Kong, & China
- 017 FM AND TV IN FIVE EUROPEAN CITIES - Stroebel, 12 Oct 80 (3)  
 the author visits Vienna, Salzburg, Paris, London, & Edinburgh
- 028 A LOOK AT EUROPEAN TV TEST PATTERNS - Thompson, 28 Jun 81 (2);  
 - Luman, 44 Oct 81 (2)
- 056 FM IN ARGENTINA - Thompson, 32 Nov 82 (1)
- 058 REPORT FROM THE CARIBBEAN - Hauser, 24 Mar 83 (3)
- 081 CUBAN TV TEST PATTERNS - Nieman, 22 Aug 86 (1)
- 095 INTERNATIONAL DX - 70 Sep 87 (1) transatlantic skip in Holland
- 097 TRANSATLANTIC E-SKIP: SOME OBSERVATIONS - Emerson, 16 Oct 87 (1)
- 115 PRECISION FREQ. OFFSETS OF EUROPEAN LOWBAND VHF TV - Onken, 18 Jun 89 (2)
- 120 TELEVISION IN SOCIALIST CUBA - Anderson, 36 Dec 89 (1)
- 124 VIDEO CARRIER FREQ. LIST (AUSTRALIA & NEW ZEALAND) - Kadet, 34 Apr 90 (2)
- 134 FM OPERATIONS IN THE CARIBBEAN - Renfrew, 8 Aug 91 (2)



METEOR SCATTER PROPAGATION

- 024 THE PHYSICS OF METEOR SCATTER - Fahber, 8 Apr 81 (5); 36 Mar 82 (6)  
good intro to MS theory, equipment, when and where to look, etc.
- 043 METEOR SCATTER INSIGHTS - Fahber, 5 Apr 82 (1)  
forecast of MS activity; false CCI patterns during MS bursts
- 049 METEOR SCATTER INSIGHTS - Fahber, 5 Aug 82 (2)  
M. burst communications; why reception is limited; dates of showers
- 054 METEOR SCATTER INSIGHTS - Fahber, 28 Nov 82 (1)  
about knots and swarms; forecasts of MS activity
- 075 IN SEARCH OF A METEOR SCATTER BEACON - Owen, 28 Jly 85 (3)  
measurement of peaks and bursts in meteor showers
- 090 METEOR SCATTER INSIGHTS - Fahber, 42 Dec 86 (1)

MISCELLANEOUS TECHNICAL TOPICS

- 007 USING THE 6m BAND AS A DX BAROMETER - Thompson, 47 Nov 79 (1)
- 010 OVERLOAD FILTERS FOR CAR FM - Weeks, 7 Feb 80 (3); 32 Dec 80 (2)
- 011 NPR'S SATELLITE INTERCONNECTION SYSTEM - Monti, 28 Apr 82 (3); 6 Apr 80 (3)
- 013 AURORAL DX TIPS - Thompson, 25 Jun 80 (1)
- 014 F(50,90) INVENTED - Elving, 40 Jly 80 (2)  
whether or not to expect DX based on station coverage contours
- 021 CANADIAN CONTINUOUS MARINE BROADCASTS - Hepburn, 20 Mar 81 (3)
- 025 CHOOSING A PREAMP FOR UHF TV DX - Thompson, 30 Apr 81 (2)
- 039 A LOOK AT THE FM BAND (via a spectrum analyzer) - Monti, 26 Dec 81 (1)
- 046 FINDING BEARINGS AND HEADINGS - Wilson, 32 Jun 82 (2)
- 061 WEATHER SYSTEMS AND TROPO DX - Pearlingi, 38 Jly 83 (1)
- 063 VHF POLICE/UTILITY FREQUENCY TABLE - Blevins, 8 Sep 83 (2)
- 066 General information on UHF PREAMPS - Thompson, 31 Nov 83 (1); 26 Feb 84 (1)
- 067 TUNE IN ON STS-9 (Space Shuttle Communications) - Van Horn, 32 Nov 83 (1)
- 068 MEL WILSON ON E-SKIP - Wilson, 37 May 84 (2); 32 Jun 84 (2) [reprint]
- 069 USE A COMPUTER TO MEASURE YOUR DX DISTANCES - Combs, 40 Aug 84 (2)
- 070 A DX DISTANCE & BEARING PROGRAM - Fuss, 22 Sep 84 (2); 50 Oct 84 (1)
- 101 AMATEUR RADIO TV - Stone, 2 May 86 (2); 3 Feb 88 (2)
- 103 IT'S MAY...TIME FOR E-SKIP DX!! - 33 May 88 (1)  
a quick description of what to look for; basic skip tutorial
- 104 OBSERVING PATCHES OF SPORADIC-E IONIZATION - Fahber, 34 May 88 (2)  
how to see noctilucent clouds, etc.
- 106 WEATHERADIO CANADA - Hepburn, 5 Jun 88 (2)  
list of weatheradio stations with power, calls, freq, etc.
- 112 CANADIAN COAST GUARD CONTINUOUS MARINE BROADCASTS - Hepburn, 41 Mar 89 (3)
- 113 SPECIAL REPORT: GIANT MARCH SOLAR FLARE - Zimmerman, 3 Apr 89 (1)
- 119 2500-mile TROPO FROM CA TO HI - reported by Remington, 46 Nov 89 (1)
- 125 IONOSPHERIC PROPAGATION: NEW OPINIONS - Prosee, 32 Jun 90 (3)
- 126 DIGITAL RADIO: THE SOUND OF THE FUTURE - Rosenberg, 66 Sep 90 (2)
- 127 GUIDELINES FOR BETTER UHF RESULTS - McCarthy, 51 Oct 90 (1)
- 128 WHEN DOES IT HAPPEN? A SHORT LESSON ON E-SKIP - Nienajadly, 8 Dec 90 (1)
- 129 WINTER FM DX'ING - Allen, 30 Jan 91 (3)
- 135 USING YOUR SCANNER FOR EARLY DETECTION OF E-SKIP - Nienajadly, 54 Aug 91 (1)

PHOTOGRAPHING AND TAPING DX

- 016 PHOTOGRAPHING DX USING A SIMPLE CAMERA - Kramer, 48 Sep 80 (2)
- 019 HOW TO TAPE (audio) DX - Elving, 30 Dec 80 (2)
- 020 TV DX PHOTO TIPS - Weeks, 33 Feb 81 (1)
- 040 VIDEO TAPE YOUR DX - Grant, 25 Jan 82 (1)
- 118 YET ANOTHER WAY OF TAPING THAT DX - Merrill, 54 Oct 89 (1)

PIRATE BROADCASTING

- 030 CLOSE ENCOUNTER WITH AN FM PIRATE - Strobel, 4 Jly 81 (2)
- 033 EUROPEAN FM PIRATES - Thompson, 5 Sep 81 (1)
- XXX See also RECEPTION REPORTS...

REGULATIONS, LAWS, AND STANDARDS

- 003 EDUCATIONAL FM UPDATE - Dorner, 12 Jun 79 (3); 5 Jly 79 (2)  
laws, power limits, etc. for stations in the 88-92 band
- 036 WTPA OFFICIAL CLUB STANDARDS - 41 Oct 81 (1); reprinted 46 Jly 87 (1)  
guidelines for computing DX distance records and totals
- 052 DIRECT BROADCAST SATELLITE REGULATIONS - Fahber, 4 Oct 82 (5)
- 057 FCC LPTV STANDARDS - Fahber, in TV NEWS, 8 Nov 81 (2); 7 Feb 83
- 089 ADVANCED TV SYSTEMS COMMITTEE BROADCAST DEMO (for HDTV) - Monti, 7 Dec 86 (2)
- 091 ANARC UPDATE - Sprachman, 22 Jan 87 (3)  
the Electronic Communications Privacy Act; the legality of DX'ing, etc.
- 107 PROPOSAL TO REALLOCATE THE 120m & 90m SW BANDS, AND 225-230 MHz TO  
BROADCASTING IN THE US & CAN. - Bueneman, 36 May 88 (2); Grant, 8 Jun 88 (3)

RECEIVER DESIGN AND MODS

- 002 AGC AND HOW IT AFFECTS TV DX - Thompson, 8 Jun 79 (3)
- 064 THE NONIMPORTANCE OF CAPTURE RATIO IN FM DX - Elving, 20 Oct 83 (2)
- 105 1988: LEAP YEAR FOR FM TUNER PERFORMANCE - staff, 38 May 88 (1)
- 121 MODIFY YOUR RADIO FOR BETTER SELECTIVITY - Nienajadly, 34 Jan 90 (1);  
4 Apr 90 (1); 33 Jan 91 (1); Bugaj, 24 Feb 90 (2); Buntin, 16 Mar 90 (1);  
Nollman, 25 Feb 90 (1); 52 Oct 91 (2)
- 122 SELECTIVITY MODIFICATION PROMISES MORE FM DX - Elving, 10 Apr 90 (3)

TELEVISION

- 023 WILL LPTV FILL THE BANDS WITH CCI? - Thompson, 6 Apr 81 (3)
- 026 NEW KID IN TOWN - Fahber, 11 Jun 81 (3)  
all about low power television (LPTV), regs & technical standards
- 035 UHF TV PROBLEMS - Fahber, in TV NEWS, 5 Oct 81 (2)
- 037 THE VERTICAL BLANKING INTERVAL - Fahber, in TV NEWS, 4 Dec 81 (1)
- 053 STV STATION LIST - Sullivan, 48 Oct 82 (4)  
the basics of scrambling; TV stations using those techniques
- 055 STV UPDATE - Thompson, 29 Nov 82 (1)
- 072 CABLE TV INTERFERENCE - Sirovy, 21 Dec 84 (3)
- 116 SATELLITE NEWS ANNUAL LISTING OF SERVICES - Jensen, 8 Oct 91 (8);  
17 Nov 91 (3) [1990 list: 12 Sep 90 (8); 7 Oct 90 (3); 1989 list:  
3 Jly 89 (8); 67 Aug 89 (3)]

TELEVISION NEWS COLUMN (Fahber)

- 041 TELEVISION HISTORY PACKAGE (17 pages)  
The author ran, in seventeen installments, a "Retrospect" - good, brief history of the development of TV. Topics include: pre-FCC days, early experiments and DX, early equipment, development of standards, what happened to Channel 1, radioastronomy and Channel 37, the KLEE/KRPC bogus DX story, early repeaters, transmission from airplanes, etc.  
DATES: 6 Jan 82; 6 Feb 82; 4 Mar 82; 8 Apr 82; 6 May 82; 6 Jun 82; 6 Jly 82; 10 Dec 82; 9 Jan 83; 6 Apr 83; 4 May 83; 3 Jun 83; 5 Jly 83; 3 Aug 83; 50 Sep 83; 4 Nov 83; 19 Dec 83

TV TIME TUNNEL COLUMN (Bryant)

- TV1 19 May 89 (1); 21 Jun 89 (1); 54 Jul 89 (1)  
interesting stories of ND TV in the 1950's based on author's experiences
- TV2 3 Aug 89 (1); 55 Sep 89 (1); 18 Oct 89 (1)  
logos and QSL's from 1955-56
- TV3 22 Nov 89 (1); 18 Dec 89 (1); 35 Jan 90 (1); 26 Feb 90 (1); 23 Mar 90 (1)  
the history of TV development
- TV4 36 Apr 90 (1)  
a struggle to survive: the story of WMCV, WTLT, and WZTV
- TV5 18 May 90 (1); 31 Jun 90 (1)  
The Great Grocery Crash: stories of small-market TV in the 50's
- TV6 55 Aug 90 (1); 65 Sep 90 (1)  
early TV in Saskatchewan
- TV7 45 Nov 90 (1); 54 Dec 90 (2); 4 Jan 91 (5)  
 Fargo-11's mysterious origins; stations on air in '49 - with logos!
- TV8 36 Feb 91 (2)  
historic TV test patterns
- TV9 4 Mar 91 (2)  
history of Seattle TV market
- TV10 21 Apr 91 (1); 3 May 91 (1); 23 Jun 91 (1); 43 Jly 91 (1); 7 Oct 91 (1)  
Odds and Ends - tidbits of TV history
- TV11 55 Aug 91 (1)  
basic info about skip propagation modes
- TV12 40 Sep 91 (2)  
Whatever happened to channel 1?

RECEPTION REPORTS

- RRI F2 TV DX RECEPTION REPORTS from Pat Dyer, San Antonio:  
21 Jun 79 (1); 24 Jan 82 (1); 46 Mar 82 (1); 3 Apr 83 (1);  
32 May 83 (1); 3 Jly 83 (1); 24 Sep 84 (1)
- RR2 SOUTH AMERICAN FM REC. REPORTS from A. Roccaforte, La Plata, ARGENTINA:  
48 Sep 85 (1); 22 Feb 86 (2); 43 Aug 86 (1)
- RR3 PIRATE RECEPTIONS
  - 1. In "Mailbox" column, 3 Apr 85 (1)
  - 2. In "Northern FM DX" column, 31 Nov 85; 27 Feb 86; 13 Aug 86 (3)

- TT2 8 Jly 79 (3)  
Is M.S. possible on rabbit ears? Is M.S. seen on UHF? Lightning scatter. 300-ohm vs. 75-ohm lead in; using F connectors. Why RG-59 is poor for use at UHF. Good cable to use at PSB frequencies.
- TT3 25 Sep 79 (1)  
FM tuner specifications. Is it possible to hear 10W by E-skip?
- TT4 44 Nov 79 (2)  
Horiz. & Vertical polarization. Circular pol. What is E-skip?
- TT5 28 Jan 80 (2)  
What is a log-periodic antenna? What does "50dB quieting" mean? Problems with a UHF TV preamp. Specific-channel vs. broadband antennas.
- TT6 25 Mar 80 (1)  
Minimum height for a good antenna. How ant. height affects UHF & VHF.
- TT7 34 Apr 80 (1)  
Explanation of CCI patterns. TV offsets. Can 10kHz look like 20kHz CCI?
- TT8 27 May 80 (2)  
Simple, homemade indoor antenna (quad loop). Are preamps useful during E-skip openings? How to be warned of a potential opening.
- TT9 26 Jun 80 (1)  
Problems with interaction between antennas.
- TT10 39 Aug 80 (1)  
UHF antennas for DX'ing. Comparison of Finco P-5 and P-7 dishes.
- TT11 50 Sep 80 (1)  
All about S-meters. Can an FM antenna be used for TV? Preamps.
- TT12 27 Oct 80 (1)  
The Discone antenna. Can a UHF TV antenna be used for PSB?
- TT13 13 Dec 80 (2)  
Indoor UHF antennas for DX'ing. How to stack antennas.
- TT14 6 Jan 81 (1)  
Is it possible to have good mid-winter tropo DX?
- TT15 34 Feb 81 (1)  
Log vs. Yagi FM antennas. What is a "wedge" test pattern? Does tropo occur on the 30-50 MHz band? Likely times to look for Es.
- TT16 24 Mar 81 (2)  
Why preamps work best located at antenna. About UHF traps. Disadvantages of preamps. Losses from baluns and cables. Why nulls don't occur where they are expected.
- TT17 23 May 81 (1)  
The connection between E-skip and thunderstorms.
- TT18 25 Jun 81 (1)  
Are omnidirectional antennas useful? Discount antenna imitations.
- TT19 34 Jly 81 (1)  
Coax cable losses; general information about coax.
- TT20 46 Aug 81 (1)  
Info. about the Perseids meteor shower. When to look for M.S.
- TT21 43 Sep 81 (1)  
Picket-fencing and multipath effects on car FM radio reception.
- TT22 23 Oct 81 (1)  
The most common VHF TV antenna used by club members.
- TT23 31 Jan 82 (1)  
Are tuners or "receivers" the better DX performers?
- TT24 30 Feb 82 (1)  
Advantages of vertically mounting a TV antenna for DX'ing. How well a vertical antenna will work for PSB DX'ing.
- TT25 45 Mar 82 (1)  
How to best use UHF preamps and traps.
- TT26 27 Apr 82 (1)  
About auroral DX. What it looks like when seen on TV.
- TT27 38 Jly 82 (1)  
Best all-channel DX antenna. How height affects performance.
- TT28 30 Nov 82 (2)  
Information about coax and twin-lead; installation.
- TT29 29 Dec 82 (1)  
Where to locate and how to use a preamp for TV DX.
- TT30 3 Feb 83 (1)  
Comparison between the Finco FM-4G and FM-5 antennas.
- TT31 27 Mar 83 (1)  
Auroral DX tips.
- TT1 THE WTFDA "DX'ERS ENCYCLOPEDIA" (36 pages)  
The "Technical Topics" columns that ran before April, 1983, were written in a Q and A format, using questions actually sent by members to club HQ. They are not full articles, but brief discussions about specific topics of interest to DX'ers. This package, TT1, puts all of these columns (items TT2-TT31, as listed above) into one good reference.

- Note: Technical Topics now appears as full articles on aperiodic basis.
- 074 21 Oct 84 (2)  
Servicing antenna rotors.
- 077 40 Nov 84 (2); 20 Apr 85 (2)  
All about selectivity: theory and applications.
- 082 22 Feb 85 (2); 29 Mar 85 (2)  
Notes on building and installing a home-built SCA decoder.
- 083 32 Sep 85 (2)  
NASA's Skylab ionospheric experiments.
- 084 19 Oct 85 (1)  
All about FM broadcast pre- and de-emphasis.
- 085 31 Feb 86 (2)  
Project: a home-built stereo headphone amp for tuners.
- 086 23 Mar 86 (5); 6 Jun 86 (4)  
All about signal and tuning meters: theory, design, and application.
- 087 2 Aug 86 (3)  
The use of polarization in broadcasting.
- 088 2 Sep 86 (3)  
All about coaxial cable.
- 093 2 Feb 87 (5) THE NATURE OF DX, PART 1  
Fundamentals of propagation of VHF/UHF signals through the troposphere.
- 098 30 Apr 87 (6) TNODX, PART 2  
How tropo DX occurs and where; how to make predictions based on weather.
- 099 7 Nov 87 (5) TNODX, PART 3  
All about path loss, signal fading, etc.
- 102 20 Feb 88 (3)  
A discussion about overloading, spurs, intermods, birdies...
- 108 16 Jly 88 (3)  
Spectral analysis of FM and TV bands and signals.
- 110 3 Nov 88 (3)  
Technical news: what's going on with HDTV.
- 111 4 Mar 89 (4) TNODX, PART 4  
Introduction to ionospheric layers and how they relate to DX.
- 117 4 Aug 89 (2)  
Build a directional, quad-loop VHF antenna for indoor use.
- 122 5 Apr 90 (5); 18 Nov 90 (4)  
All about tuner mods for improved selectivity; ceramic IF filters, etc.
- 131 3 Apr 91 (3)  
Preamp basics; tests of the Winegard UT-2700 tunable UHF trap.
- 133 3 Jun 91 (1)  
The mystery of backscatter.

## ANTENNA NEWS Column (Dornbos)

- AN1 13 Jun 83 (3)  
(BIB. 1935-1945) Antennas and reflectors; theory. Antenna mounting.
- AN2 25 Jly 83 (3)  
(BIB. 1945-1947) Tripod as antenna mounts. When & how to buy DX gear.
- AN3 35 Aug 83 (3)  
(BIB. 1948-1952) All about antenna mast pipe.
- AN4 4 Sep 83 (4)  
(BIB. 1953-1956) All about towers.
- AN5 19 Nov 83 (3)  
(BIB. 1957-1960) All about antenna rotors.
- AN6 15 Dec 83 (4)  
(BIB. 1961-1963) Transmission line theory; balanced vs. unbalanced
- AN7 16 Jan 84 (3)  
(BIB. 1964-1968) Transmission line theory: impedance.
- AN8 12 Feb 84 (3)  
(BIB. 1968-1971) Transmission line hints & tricks; the 39 $\mu$  trap; baluns.
- AN9 21 Mar 84 (4)  
(BIB. 1971-1974) Coax cable product comparison; what to buy.
- AN10 14 Apr 84 (2)  
(BIB. 1974-1976) Traps and filters.
- AN11 18 May 84 (4)  
(BIB. 1977-1978) Preamps and preamp theory; noise figure.
- AN12 14 Jun 84 (3)  
(BIB. 1978-1980) Bandpass response of preamps; product comparisons.
- AN13 40 Jly 84 (2)  
(BIB. 1979-1982) Still more on preamps.
- AN14 3 Aug 84 (4)  
(BIB. 1983-1984) Consumer Electronics Show report; the decibel.

ANTENNA NEWS Column, Continued

- AN15 13 Sep 84 (2)  
Automobile and R.V. antennas.
- AN16 32 Nov 84 (3)  
All about automotive FM antennas: theory and practice.
- AN17 8 Dec 84 (3)  
List of addresses of antenna and hardware manufacturers.
- AN18 28 Feb 85 (3)  
Antennas for scanners: theory and practice.
- AN19 28 Apr 85 (4)  
All about indoor FM antennas; product comparisons.
- AN20 22 Jun 85 (3)  
All about outdoor FM antennas.
- AN21 38 Sep 85 (4)  
More on outdoor FM antennas. The Consumer Electronics Show.

NOTE: a complete bibliography covering almost every magazine article published from 1935 to 1984 on antennas or related topics, was supplied in several installments in the ANTENNA NEWS column. "BIB." indicates the years covered each month.

WHOOPS!

The following article should have appeared under EQUIPMENT REVIEWS:

- 132 THE ANTENNACRAFT FM-13 - Allen, 30 May 91 (4)

The VHF-UHF DIGEST TECHNICAL INDEX is now complete and updated from 1979 to 1992. (The first version of this index appeared in the Dec 86 VUD, pages 2-6.) There are just over 200 entries, covering every edition from June, 1979 to the present. Now, it is possible to locate information about 'most any topic of interest to DX'ers. (To conserve space, the categories on beer, football, and poker tricks have been omitted.) There has been some superb talent contributed to the WTFDA club over the past several years, and there's no reason for those efforts to go unrecognized or unused.

This index is organized by topic, with separate headings for the "Technical Topics" column of Bill Thompson, the "Antenna News" column of Doug Dornbos, the "TV Time Tunnel" column by Tom Bryant, and some of Bill Fahber's "Television News" columns. Every entry has its own reference number, title, author, page number, number of pages, and VUD edition. For example:

- 038 LOOPS, EARS, AND DX - Grant, 22 Dec 81 (1)

This article, written by Robert Grant, appears on page 22 of the December, 1981 VUD and is one page in length. Titles are in all capital letters, and quick descriptions are given when the title may not explicitly say what the article is about. I have made every effort to make this index complete and accurate, including a few corrections from the original index. It has been double-checked so that, hopefully, no articles have been overlooked or misprinted. I do welcome any comments or suggestions, or notice of any errors/omissions. Copies of this index are always available for free (with a large SASE) from me at the address below.

Any of the items in this index are available as reprints! This extremely popular service will be continued indefinitely. You may have noticed the three-digit number preceding each entry. This number can be used to order reprints. In addition, it ranks the articles in chronological order.

TO ORDER REPRINTS...just order as you would from any mail-order catalog. Send me a note with the numbers of all the articles you want, plus ten cents per page. Use the number in parentheses to total up page count. Note that I need 10¢ per page, not per 2 pages as before. This is due to extra postage and copying costs; I do not make any profit doing this. I cannot cash checks payable to WTFDA.

Since starting this reprint service back in '87, I've sent out over 10,000 pages of material to over 100 requestors. At first, I was handling about one request every week; a couple of people even asked for a copy of everything! Every item has been requested at one time or another, reflecting the diverse interests of what many would see as a very narrow-interest club. Antenna articles are always the most popular, as well as equipment reviews, although many of these are becoming obsolete. I urge anyone out there with ideas for articles, pieces of gear or antennas that you are very happy/unhappy with, or new opinions about old topics, to write it down and share it with others. You could achieve immortality on the next index!

TIM McVEY (US address) PSC 45, BOX 1066, APO, AE 09468  
(non-US address) 17 Park Gate, Knaresborough, HG5 9DR, England

## QSL CORNER & LOGOS RUN

Thomas J. Yingling, Jr.  
ARS: KATCC  
221 Pinewood Road  
Baltimore, MD 21222-2345

WI WDOR 93.9 Sturgeon Bay, Box 549, 800 S. th Ave., zip 54235. Received back my PFC (prepared file card) for qsl, signed by an Edward D. ????? (Ross)

FL WXIB 97.9 Clearwater, 2 Corp. Dr., Suite 550, zip 34622. PFC back in 3 weeks from P. Scott Miller, CE.(Ross)

KS KNGM 91.9 Emporia, Box 506, Zip 66801. Received PFC back in 4 weeks from Steve Pearson, GM. (Ross)

FL WEAT 104.3 West Palm Beach, 2406 S.Congress Ave., Zip 33406. PFC & QSL Card in 2 weeks from Bert Brown, CE. (Ross)

FL WHYI 100.7 Ft. Lauderdale, 2741 N. 29th Ave., Suite 300, Hollywood, FL Zip 33020. PRC & QSL Card from Howard Quinton, CE in 2 weeks. (Ross)

TX KYK 98.3 Palestine, Box 649, Zip 649, Zip 75802. PFC & letter back in 1 month from Wayne Wilke, CE. (Ross)

KS KHCD 89.5 Salina, 815 N. Walnut, Suite 300, Hutchinson, FL Zip 67501.

PFC in 1 month from Fred W. 777, CE. (Ross)

FL WOYK 99.5 St. Petersburg, 9450 Koger Blvd., Zip 33702. PFC in 2 weeks from Dr. Frank Henry 7, CE. (Ross)

MB CHIQ 94.3 Winnipeg, 1445 Pembina Hwy. Zip R3T-5C2. PRC in 1 month from an unreadable person. (Ross)

OK KMSI 88.1 Moore, Box 1924, Tulsa, OK 74101. PFC in 1 month from John R. McNay, Jr., Eng. (Ross)

FL WOZN 98.3 Key West, Box 1874, Tallahassee, FL Zip 32302. PFC in 1 month from Bob T. ????? (Ross)

GA WTUF 106.3 Boston, 117 Remington Ave., Box 3086, Thomasville, GA Zip 31799. PFC in 1 month from Jerry E. White. (Ross)

FL WWRM 107.3 St. Petersburg, 877 Executive Center Dr., Zip 33702. PFC in 1 month from David Solinse, CE in 1 month. (Ross)

AZ KAFF 92.9 Flagstaff, P. O. Box 1930, Zip 86002. Letter from Tim Garritt, Program Dir. who sent nice letter, coverage-map, market data bumper stickers, saying it's their first summer operating with full power of 100,000 watts, & that they have been heard in Alberta. (Elving)

CO KIQX 101.3 Durango, P. O. Box "X", Zip 81302. Letter from Bruce Anderson, Technical Manager sent very friendly letter, mentioning also dx from TX & FL as well regular reception across the

Contintmel Divide, but not able to get the signal into Delores, CO, "less than an hour's drive away." (Elving)

CO KBLJ 92.1 La Junta, P. O. Box 485, Zip 81050. Paul Coates, GM saying my report is the greatest distance they have heard from. (Elving)

CO KDHT 92.5 Greeley, 9351 Grant St., Thornton, CO Zip 80229. Letter from David W. Sawyer, CE sent a nice letter & bumper sticker, and wanting info on the current "FM Atlas" (Elving)

MT KGLT 91.9 Bozeman, 320 SUB/MSU, Zip 59717. Brief handwritten note at bottom or program guide by a person with an unreadable signature who says "Hope you can still us." (Elving)

MT KBOZ 93.7 Bozeman, P. O. Box 20, Zip 59715. Letter from John P. Brandt, Jr. VP/GM. Also send map & station coverage profile. They had heard from a listener in Norway not long ago (1090khz. AM dial). Other DX'ers take note: "We are always interested to hear from out listeners, especially those far way!"

Reporters: Robert S. Ross, VE3JFC; London, Ont & Bruce F. Elvings; Esko, MN. I hope this month column looks okay. I'm trying out Word for Windows on my IBM-PC. Still don't have the video frame grabber yet. I'm out again of QSL items again, but some Logos came in mail. 73's for now, see you down the log.

ORGANIZACION RADIO CENTRO ARTICULO 123 No. 99, DELEG. CUAUHTEMOC, 06050 MEXICO, D.F. CONMUTADOR 510-48-60 CON 20 LINEAS	
XEQR 1030  Cañón 512-75-17, 512-75-52	VENTAS 510-14-83 CONTINUIDAD 521-91-75 NOTICEROS 510-04-68 Fax: 512-85-88
XERC  Cañón 512-57-28 v 512-57-45	XEFAJ 15-60  Cañón 510-33-17 v 510-28-70

XEJP  Cañón 510-47-05 v 510-47-08 CANAL 15	XEOR FM 107  Cañón 512-78-10 v 512-52-65
XECMQ  Cañón 512-47-52 v 512-15-12	XEJP FM 93.7  Cañón 518-20-33