

# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

APRIL 1992



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

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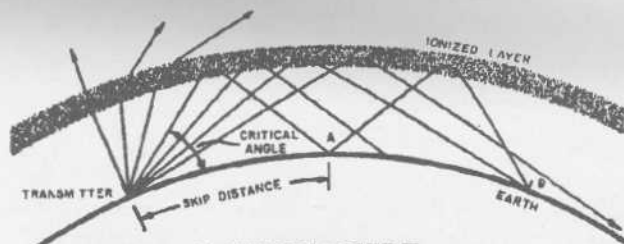


first class mail



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

## ANNOUNCING



### 1st WORLDWIDE VHF IONOSPHERIC PROPAGATION SYMPOSIUM

TO BE HELD IN CONJUNCTION WITH  
THE CENTRAL STATES VHF SOCIETY ANNUAL CONFERENCE IN  
KERRVILLE, TEXAS  
JULY 16 - 19, 1992

#### PRELIMINARY CALL FOR PAPERS

The VHF IONOSPHERIC PROPAGATION SYMPOSIUM will be devoted to the study and dissemination of information relating to the ionospheric propagation of radio signals at 50 mhz and above. Because of the very high level of world-wide activity associated with the recent solar cycle peak, we expect there will be a special emphasis on presentations and discussions concerning SIX METER propagation. We encourage papers on all forms of ionospheric propagation including F-Layer, TEP, E-Skip, Scatter, Aurora, and FAI on 50 Mhz and above.

Those wishing to present papers in this symposium should submit an abstract to the Program Chairman (address below) as soon as possible, but not later than April 15th, 1992. (Papers on other VHF/UFH/Microwave topics should be submitted to: Derwin King, W5LUU, 7335 Wild Eagle Rd., San Antonio, TX 78255) All accepted papers will be included in the Proceedings of the Central States VHF Society published by the ARRL.

The symposium as well as the Central States Conference will be held at the YO Hilton Hotel in Kerrville, Texas - about an hour's drive from San Antonio. Most major air carriers service San Antonio.

In addition, a wild-west TEXAS STYLE BARBECUE, will be hosted by Bill Tynan - W3XO, CSVHFS 1991 President, on Sunday, July 19th at Bill's QTH on the Tierra Linda Ranch just outside of Kerrville.

To submit abstracts or for  
Program information:

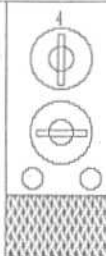
Dave Batcho, N5JHV  
5611 Desert Star Road  
Las Cruces, NM 88005  
(Phone 505 526 1861)

For information on  
Registration and Attendance:

Larry Hazelwood, W5NZS  
PO Box 54437  
Oklahoma City, OK 73154  
(Phone 405 848 6400)

## Television News

Doug Smith, Editor  
14 Brookside Court  
Nashville, TN 37209  
(615) 356-8305 CIS 72777, 3143  
W9MI @ W4HHY.TN



#### ABBREVIATIONS USED IN THIS COLUMN:

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

#### APPLICATIONS FOR NEW TV STATIONS

St	Ch	ERP	HAAT	Call	City
TX	40	1460	113	Rio Grande C.	

#### CONSTRUCTION PERMITS FOR NEW STATIONS

St	Ch	ERP	HAAT	Call	City
MI	45	153.2	290	Vanderbilt	

#### APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
NE	15	2529	390	KPQC	Omaha
SD	12	316	259	KTTM	Huron

#### CONSTRUCTION PERMIT MODIFICATIONS GRANTED

St	Ch	ERP	HAAT	Call	City
GA	34	nc	nc	WUBI	Baxley
(TL change only: 31°45'53"N, 82°13'38"W 4.7km S of Ga 144, 11.6km E of Baxley)					
NC	14	1200	193	WYDO	Greenville
(TL: 35°22'18"N, 77°24'04"W NC 118, 2.2km E of Grifton)					

#### APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
OR	21	133	197	KTVZ	Bend
(TL: 44°04'40"N, 121°19'49"W (Awbrey Butte))					
SD	17	196.7	151	KTTW	Sioux Falls
(TL: 43°29'20"N, 96°45'40"W RR3 Yankton Rd.)					

#### APPLICATIONS TO CHANGE EXISTING STATIONS (Cont'd.)

St	Ch	ERP	HAAT	Call	City
VA	65	398	254	WZXX	Ashland
(TL: 37°44'32"N, 77°15'18"W)					

#### CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
IA	15	2.213	363	KOIA-TV	Ottumwa
(TL: 41°11'42"N, 91°57'15"W 2.1km NNE of Ia. 1 and 78)					
NE	19	767.5	342	KXNE-TV	Norfolk
(TL: 42°14'15"N, 97°16'41"W Hwy. 98, 8km SW of Carroll)					
OH	43	204	264	WUAB	Lorain
PR	18	500	563	WSJU	San Juan
(TL: 18°16'44"N, 65°51'12"W Munic. of Loiza)					

#### CALL LETTER CHANGES FOR EXISTING STATIONS

St	Ch	Old	New	City
NC	30	WWRD	WEOU	Wilson
OR	32	KUTF	KEBN	Salem

#### CALLS GRANTED TO NEW STATIONS

St	Call	City
MT	KWYB	Butte; CTN
TX	KTRG	Del Rio; Republic Bcstg. Co.

#### OTHER STUFF

The Supreme Court has blocked attempts to ban "indecent" broadcasts. The Court let stand a lower court ruling that a 24-hour ban on indecency, ordered by Congress in 1988, is a violation of the right to free speech.

The ruling allows the FCC to continue to restrict such broadcasts to hours when, presumably, parents are controlling their children's viewing; currently, the Commission's policy is to presume this control between 8PM and 6AM.

Indecency is defined by the FCC as "language that describes in terms patently offensive, as measured by contemporary community standards for the broadcast medium, sexual or excretory activities and organs." Obscenity, which is banned at all times, is defined by the Supreme Court as "material that appeals to prurient interest and lacks serious artistic, literary, political or scientific value."

Also in the courts, the FCC's policy of giving preference to female applicants in license hearings has been overturned by the

U.S. Court of Appeals in Washington. New Supreme Court justice Clarence Thomas wrote the opinion, in which he said that the government has failed to show that female-owned stations are more likely to air programs beneficial to women.

Iowa State University is selling WOI-TV 5 Ames/Des Moines. WOI-TV is the ABC affiliate for the Des Moines market, and is unique in that WOI AM & FM are non-commercial public radio stations.

Locally, WKNT-40 Bowling Green, KY is back on the air. They're still pretty weak, seen only during tropo. Programming seems to be a relay of WGRB-34 Campbellsville, but with their own IDs.

## FORUM

### Bill Nienajadly, Clifton NJ:

Bill continues to provide greatly appreciated newspaper clippings...

According to the March 3 *NYC Daily News*, two stations have dropped the Howard Stern syndicated TV program. WFXT-25 Boston dropped it after the Feb. 8 program featured a "Kielbasa Queen" who stuffed a foot-long sausage down her throat. WNPL-46 Naples, FL didn't cite any specific episode, but said they were receiving too many complaints from the general public.

Also in the March 3 *Daily News*, WPIX-11 NYC (a commercial station) will be running 30-second PSAs encouraging viewers to watch WNET-13's pledge drive. WPIX's general manager Michael Eiegner says "We are all in business to serve the community. Public-supported TV is able to provide certain types of programs and services that commercial stations cannot." WNET, which lost \$3,500,000 in state funding last year, may lose another \$1 million this year, and hopes to raise \$3.4 million in this spring's pledge drive.

And from the March 4 *Newark Star-Ledger*, "Starting today and running for the next 8 weeks, federal officials at the Advanced Television Test Center in Virginia will begin testing a HDTV system developed by researchers at AT&T and Zenith Electronic Corp.." Their system is competing with 5 others to become the U.S. standard.

Testing is taking place under strict security, in an attempt to ensure unbiased evaluation. After 9AM March 4, AT&T/Zenith engineers were permitted no further adjustments to their equipment; test engineers

are forbidden to reveal how other systems have fared; and strict deadlines are applied. The creators of the winning system can expect millions in licensing fees if HDTV catches on.

The Zenith/AT&T system uses digital signal processing to compress the video information, fitting a high-definition picture into the 6MHz of a regular NTSC channel. The system also claims to be able to use the "taboo" UHF channels, allowing over-the-air HDTV broadcasts without allocation of new spectrum. A compression algorithm developed by Bell Labs cuts back on the amount of information that must be transmitted by predicting how objects in a scene will move, and transmitting data about stationary objects only once.

Two of the 5 HDTV systems being evaluated were developed at least partially in New Jersey; others are Japanese and European.

### Roger Windsor, Valparaiso IN:

Roger left a message on my answering machine with some LPTV info; two new stations, W04CQ Chesterton and W18AT Gary. Both are apparently with a new "Dunes Television Network". (referring to the Indiana Dunes, on the south shore of Lake Michigan. I'll bet WTMJ-TV and WVTM cause plenty of CCI!

If you've got fast-breaking news, or just would rather not write, feel free to call at 615-356-8305, from 9AM-midnight Central time. (sorry, no collect calls; you'll probably get an answering machine anyway!)

## FCC RULES PRIMER

### Assorted TV technical rules:

Channels 5 and 6 were allocated to two-way radio in Alaska and Hawaii until a few years ago. Channel 17 is still unavailable for TV in Hawaii. Channel 37 is reserved for radio astronomy. (my understanding is that the resonant frequency of the hydrogen atom is in channel 37)

Full-power TV stations must use at least 100 watts ERP. Low-band VHF stations (channels 2-6) are limited to a maximum of 100kW; high-band (7-13) to 316kW; UHF to 5000kW. These are for antenna heights of 300m or less in Zone I, 600m in Zones II and III.

VHF stations on the same channel must be at least 272.7km apart in Zone I; 304.9km apart in Zone II;

and 353.2km in Zone III. For UHF, the separation is 248.6km in Zone I, 280.8km in Zone II, and 329km in Zone III. (these don't work out to even numbers in miles either!)

VHF stations on adjacent channels must be at least 95.7km apart. Since there are wide gaps between channels 4/5, 6/7, and 13/14, these restrictions don't apply to those channels.

UHF stations must be at least:

20 miles from other UHFs separated by 8 channels, due to IF heterodynes.

20 miles from other UHFs within 5 channels, due to intermodulation.

55 miles from adjacent-channel stations.

60 miles from UHFs 7 channels away, due to radiation of local oscillators.

60 miles from UHFs 14 channels away, due to the image of the aural carrier.

75 miles from UHFs 15 channels away, due to the image of the visual carrier.

These are the "taboo" channels. For example, in Wausau, Wis., home of WHRM-TV 20, UHF channels 15-25, 27, 28, 34, and 35 are all unavailable.

Zones I, II, and III are have different separations due to differences in population density and propagation. Roughly:

Zone I includes MA, CT, RI, NJ, PA, DE, MD, DC, WV, OH, IN, IL, and roughly the northern half of VA; southeastern quarter of WI; southern half of lower MI; NY south of Saratoga Springs; VT and NH south of Rutland; and coastal ME.

Zone III includes all of Florida and Gulf Coast regions, including GA south of a line from Brunswick to Columbus; roughly the southern halves of AL and MS; most of LA; and areas of TX within 150 miles of the Gulf Coast.

Zone II is the rest of the USA.

All TV stations (and radio, for that matter) must have at least one person holding a commercial radio operator license (of any class) on duty whenever the transmitter is on the air. This operator must be at the transmitter or an authorized remote control point. (there is nothing in the regulations specifying how close the operator must be to the

transmitter--only that the operator is able to make necessary adjustments to keep the station legal.)

TV stations must also appoint a "Chief Operator", who must be a station employee (not a self-employed contract engineer) responsible for regular inspection of the transmitting equipment and calibration of monitors & meters, and for inspection and approval of the transmitter log.

TV stations may not control a "peculiarly suitable" transmitter site. For example, WNBC-TV could not obtain an exclusive contract for use of the World Trade Center for their antenna.

TV licenses are issued for 5-year terms. The expiration date varies depending on the state in which the station is located--for example, in Tennessee, Kentucky, and Indiana, TV licenses expire on August 1 of this year; while in Illinois and Wisconsin, they expire on December 1.

Stations are required to identify themselves as close to the hour as feasible, at a natural break in programming. The ID may be aural, visual, or both.

Station IDs consist of the station's call letters immediately followed by the city of license. The name of the licensee or the station's channel number may be inserted, but nothing else. For example:

"WSMV, a Cook Inlet station, Nashville"

"WSMV, Channel 4, Nashville"

are both legal.

"WSMV, Your Wheel of Fortune Station, Nashville"

is not.

73 Doug





### Readers' Reports

A person I enjoyed meeting at the WTFDA convention is Tom Bryant, who sent a Nashville newspaper story on WRLT 100.1 Franklin TN, which could become non-commercial, if the public library, licensee of WPLN \*90.3, has its way. Or, DXers might still get commercial programming on 100.1 if one of two bids for the channel, now in receivership (and presumably still on the air and DX ready), is approved by the FCC. A group headed by Ned Horton, WRLT manager, has offered \$411,000 for the station; this tops a bid of \$400,000 by Dallas-based KBR Broadcasting Group. The Library asks for more time to put together its bid, which would give it an advantage, since it knows what the other bids are. Horton, an "FM Atlas" reader, has another plan up his sleeve, and that is to take over unbuilt WYPE 94.1 Smyrna TN. WPLN would use 100.1 for its classical service, changing \*90.3 to more talk, but presumably still carrying music and having stereo.

Ken Chatterton of the National Radio Club says "The 14th edition FM Atlas looks great," and he included a form letter mentioning a change in management of that club. Mike Knitter has "resigned all official positions with the club," and all correspondence should go to the PO Box 164, Mannsville NY 13661-0164 address. He mentions that others may be offering products and publications similar to the NRC's, which is legal. "We understand that some items may be offered under names similar to ours and noted as 'formerly the NRC (whatever)'. That statement should not be considered as true. The long-time AM Radio Log is being completely updated and will be issued by the NRC as scheduled on Sept. 1, 1992. We have not authorized the use of the NRC name directly or by inference by anyone." Ken said there will be no NRC FM map book or log: "didn't sell enough."

John Ebeling came back from a trip and confirmed that a DX target, YES-FM 104.1 in Barbados is 4 kw. I enjoyed getting the FM station database/printout from Fred Nordquist, who plans to use the new FM Atlas to find new cities to add to his political unit data files that are used in conjunction with calculating distances. He has reworked the data, segregating countries like Anguilla and Antigua from the U.S. states, and asks if I know the coordinates of "every hamlet, mountain peak and wide spot in the road (e.g. Quebec was especially troublesome) in the USA and Canada?" [All I know is the NTIS database for the U.S. and border areas of Canada and Mexico which lists coordinates; its address is found at the end of my "FM Atlas."] Fred goes on:

"I am slowly working on a related project whereby I will be able to print FM/TV channel maps by computer, using the grid coordinates to locate and print station calls on 11 by 14 inch paper. It's going to take some time to add all of the frequencies to my existing city location database files. I've already developed the algorithms to translate the grid coordinates to print positions, along with menu-driven sizing of map coverages. DXing is nonexistent lately . . . I've been experimenting with antenna phasing techniques. Also,

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

Contributions earnestly solicited!

the 110 kHz filter mod allowed me to switch my Carver TX-11A USA/European switch back from 50 kHz to 100 kHz increments since adjacent channel reception next to local powerhouses is no longer a problem. Keep up the good work on your FM Atlas and FM FCC columns."

"I like the new Atlas maps," writes Gus Mancuso. "The way they fill up the pages more. Hadn't thought of moving print closer to the middle seam. Very clever—with PA stretching state vertical only! Hey, you DO listen to me, changed WPLJ format to rs from r. Top 40 may be dead—WBSB, WAVA here both dropped it this winter. I'd be curious to know about other markets. Neither of above has carried a national top 40 countdown show in about a year. How about more info on the seeming power increases for translators? Would like to know which still are at 10 watts and which higher. Did anyone watch PBS show on three pioneers of early radio?" [A version of it was also on public radio, discussing Armstrong, de Forest and Sarnoff—b.e.] "Noticed a couple of Ontario FMs went off (CKO stations). What happened? Maps again: still think E. KY and E. TN on one map—western halves on another! What's with 'non-sequiter' handles? WRED using WTOD-FM [Gibsonburg-Toledo OH]. I don't get it. In process of making AM and FM same calls? You never printed my follow up on WMMX using false calls ('WMIX')." I think WTOD wants to save the WRED calls in case they want to use them on AM or FM later, while the new "FM Atlas" shows translators and boosters having over 100 watts in larger type on the maps. "Took notice of the new station in Ledyard CT [WBMW 106.5, \$]. A gambling casino is being built there on an Indian reservation. . . I had thought about a bandscan from the Groton/New London area. As you can see, it's away from any dilapidated area, but close enough to NYC, Boston, Hartford, etc., plus close to ocean for that water enhancement." [I was there in the '60s and there were no local FMs then; only weak reception from Providence—b.e.] "Did you see that Mount Greylock bandscan? I told George that valleys are better than mountains—now he knows what I mean. Reception too stagnant when gain strong. Am going to tape the last 90 minutes of WAVA as top 40 tonite."

Returning from a trip to AZ is Karl Zuk. "KQST Sedona AZ is a Class A and probably won't move and go to Class C at 100,000 watts. Station is owned by an 87-year-old gentleman, and his son does drive time. Heavy metal, ugh! Yes, it's in stereo, and on 100.11 They are on their fourth extension of the CP for frequency/power change and with almost nonexistent ad time, I don't know how they will find the money to up their power. Also, commenting on p. 6 of the March VUD, re: WAMC Albany NY I disagree! The Mount Greylock is great. When WHPC/WBAU, both stereo, Garden City NY and WHCR (mono) New York NY are off 90.3 can get WAMC on a \$10 walkman on the west side of Manhattan walking between big steel buildings. Their 90.3 signal is a super signal like WSPK 104.7 Poughkeepsie and WALK 97.5, both stereo, Patchogue."

FCC—FM

WRTO Now 100 kw and DX Ready!

April, 1992

[Yet the signal to the west in Troy is not good; perhaps obstructed by local terrain—b.e.] After he got back to NY, Karl received a list of AZ cable frequencies from Warner Cable of Sedona. That answers why he has heard such things as KNIX Phoenix on 104.7 and KAFF Flagstaff on 100.7—cable leakage.

Tennessee's Douglas E. Smith says local WFSK \*88.1 Nashville still off the air, and he suspects this is permanent. I hope he calls and tries to find out what might be the situation there; the number is (615) 329-8754. Doug says WYCO 102.9's simulcast with WQZQ-FM 102.5 Dickson has failed; 102.5 now "b." It has a non-ID of "Super Audio," and, gasp, no regular ID heard, "even on the hour." The new WQZQ-FM translator on 102.1 is on the air. WYYB 93.7 Dickson is on with mr, but I'd like to know if WYYB has stereo or not. "Noticed that you discuss LMA's in your new Atlas. In my humble opinion, LMA's are the wrong solution. They serve to prop up technically inferior stations (both AM and FM). The real solution is to let those inferior facilities dry up and go away, eliminating their interference to existing stations."

Ronald Purdue sent word about a new FM in Stewartville MN, KYBA on 105.3, not yet on air, but with tower to be built between Austin and Rochester. It is listed as 3 kw, but apparently is working to get 50 kw approval. KWWK Rochester expects to move from 96.7 to 96.5 with 39,100 watts this spring, while KRCH 101.7 has already achieved 50,000 DX-ready watts.

Robert Grant comments on Detroit radio, including the change from b to mr for WJOL 97.1—a change making that station less distinctive to the FM DXer—with ads that say "no elevator music." He sent a reprint from a local leftist newspaper, the "Metro Times," mentioning a short-lived pirate on 106.3, calling itself "Radio Free Detroit." Robert briefly heard the pirate one Thursday night "while driving home on the I-75 freeway, they were under the noise less than 1.6 km from the area of the 'Cass Corridor' they were transmitting from, getting killed by WWWW 106.7, also with downtown transmitter. I knew once the station had gone 'high profile' by being exposed in the Metro Times that the FCC would swoop in, sure enough, as the Detroit News article states, the FCC had already busted the station before I heard it, but could not shut off the station without a search warrant. RFD 106.3 has not been heard since. They could probably cover better, legally, with a 1-watt transmitter in the longwave band, but if it were legal, RFD probably would not want to do it anyway; the rebellion is the product, not the broadcast!"

Ernie Cooper orders an FM Atlas and keeps hoping "I'll find the type of programming in the listing by frequency, have suggested it several times, but I guess I have to give up. It sure would be a big help to DXers!" [I'm sorry to have to keep disappointing you, Ernie, but the space available and computer program I am using will not permit it—it would also take too much of my time to keep track of formats two ways—by geography and by frequency. I want to cut down my workload, for like you I am not getting any younger!]

Stephen West sent several PA area updates, and then noted on p. 7, March, West Palm Beach PA? Naturally that correction for WIRK 107.9 should read FL W/KSZ 100.3 Media PA now advertises a 50/50 mix of oldies and today. Supplying a list of Bible Broadcasting Network stations was Ken Onyschuk. One of the latest

is the sale of WSOC AM Charlotte to that religious network, forcing the FM on 103.7 to become WSOC "FM" (from WSOC-FM).

Chris Dunne says the LMA between WXDJ 95.7 and WRTO 98.3 in S. FL has ended, with each assuming their own identities. WRTO now 100 kw, C, and displacing WCOO Immokalee, which will next appear on 92.1. "I dropped the idea of 110 filter in the Superadio since I use phasing to catch some adjacents, but that might change. . . WKRY's power increase (93.5 Key West) will hurt my chances of hearing Santa Clara, CUBA on 93.5, but had a great (but brief) tropo opening to Cuba on 2/24 with 93.5 and a Radio Encyclopedia (Cuba) 88.7 (may be Santa Clara, too)."

Tracy Wood has moved to Atlanta, "where intermod is terrible," and he says WFGG \*88.3 Fort Gordon, about to be usurped by a new FM in Belvedere SC, WUOZ, has retreated to an antenna atop its studio building from the water tower, and will be looking for a new frequency, possibly the 89.9 one abandoned when WYFA changed. He was in OR and noted FM 107.5 Banks "is nothing but a relay of K-Love from Santa Rosa CA—same group which runs Prunedale-Salinas FM." WMMV \*90.7 McDonough GA still off the air, seems they are looking for a new site farther north. He's working with GA Tech to try to get an experimental license and test multipath resolution techniques. "A few years ago an outfit in Portland OR had a request for 104.1 to run low power experiments. Who is that outfit? Also somebody in PA has experimental FM license as Glenn Hauser reported." [I have no idea who to contact regarding those experiments, but you can get from the FCC a form to construct an experimental broadcasting station. However, good luck in getting the FCC to approve such; it is my experience the FCC is usually loathe to grant such requests—b.e.]

Hearing an FM pirate was Wendell Ford, a "WVTI" at Valparaiso [IN] Technical Institute, with 100 mw on 90.5. But one night he got 'em loud and clear on 88.3 when WDSO Chesterton IN was off for Christmas vacation. It is heard usually on Sunday nights and when on 88.3 was received 16 km away, with only minor interference from WVPE \*88.1 Elkhart. Wendell must have a more selective car radio than Robert Grant! Wendell claims WLS-FM 94.7 Chicago is stereo, but I have my doubts. It must be proven that they actually broadcast at least 15 minutes of music a week in FM stereo or have at least 10 seconds of audio theme music per hour with stereo separation, exclusive of commercials and station promos, for it to merit a stereo listing in my book. I guess I'll have to contact their chief engineer, Warren Schulz, who is an FM Atlas reader, to get the real story.

On air and DX ready—WEDW \*88.5 Bridgeport CT, in stereo, reports Bill Nienajadny, and it gives its IDs with other CT Public Radio network stations. Also on is WOSR \*91.7, \$, Middletown NY with the "WAMC Network." They put out an "OK signal here and they are heard in the car. Rich Shaftan says they're very strong by him and Bob Smclarek gets WOSR well too. The 110 kHz filters arrived after only a four week wait; Digi-Key said originally 10-14 weeks. . . 1992 FM Atlas is great, another job well done! But the indication of all the new stations coming on not just here but everywhere, shows the need for phasing these new 'pests'. Fred Nordquist mentioned about 'torroids at 100 mHz' to be



AR Englad KLRA-FM 96.5  
 AR Gurdon KGAP 92.7 "still off the air"  
 AR Stamps KZHE 100.5, still on 100.9  
 CA Grover City KWCD 107.3, "CD-107"  
 FL Gretna WGWD 93.3, still on 100.7  
 FL Panama City WPFM 107.9 "temporarily"  
 FL Tallahassee W249A 97.7  
 GA Harlem WHEY 95.1  
 GA Martinez WMTZ 93.9, still on 94.3  
 GA McDonough WVVV \*90.7. "The one-day antenna is still downtown. The church that owns it wants to move everything to a site north-increased power, etc."  
 ID Mountain Home KLVJ-FM 99.1 and its AM  
 IA Lamoni KAL 97.7 OK Salliasa KKID-FM 95.9 and its AM  
 PA Mount Carmel WXMW 99.7. "Their lease agreement with WISL 1480 Shamokin PA fell apart, as did their previous LMA with WHTO 103.9 Muncy PA."  
 PA Salliasa WKHL-FM 95.5, still off  
 PA Scranton WUSR \*99.5  
 SC Marion WPPD 94.3  
 SC Moncks Corner WJYQ 105.5  
 TN Nashville WFSK \*88.1 "still off. Suspect this is permanent."  
 W234AB 94.7-"just WGSQ 94.7 Cookeville, which has a pretty good signal here and is going to give this translator a run for its money."  
 TX Bandera KHLC 98.3  
 TX Borger KDXR 104.3  
 TX Canadian KRBB 94.9  
 TX Claude KARX 95.7  
 TX Hereford KMAZ 103.5  
 TX Lubbock KEJS 106.5  
 UT Kanab KCKK 101.1

## Deletions

MO Macon KZDX 99.9, unbuil CD  
 NV Jean K232CP 94.3  
 OH North Canton W220AD \*91.9; WFRJ said "they never used it"  
 OR McMinnville K224BW \*92.7  
 PA Reading WBYN-1 107.5

## SCS Changes, 67, 92, 78.67 kHz

*Symbols are as in the "FM Atlas"*

DC Washington WJZE 100.3 +E, 67 (from 17R)  
 OH Akron WZIP \*88.1 TT, 67, moved from WKSU \*89.7 [67; had 1X]  
 OH Canton WTOP 98.1 no SCS (carrier only, 67)  
 OH Cleveland WCPN \*90.3 no SCS (had 1T, 67)  
 OH Kent WKSU \*89.7 no SCS (had 1T, 67)  
 OH Salem WQXX 105.1 no SCS (carrier only, 67; had 1M) [1M; retains 1X, 92]  
 OH Youngstown WKBN-FM 98.9 no 67 (had/Secondary Audio Program underutilized on TV. MacNeil/Lehrer Newhour has a Spanish translation, plus there is some foreign language use of it on commercial TV in Los Angeles. The Music 4 system, said to be "a failure. The equipment was too expensive, lacked portability, and the sound was not that great."  
 Only in Los Angeles and Atlanta has been used, and Atlanta is believed to be the only market where it is currently employed.  
 "The 1992 FM Atlas is great-another job well done!" "The FM Atlas certainly is up-to-date. Thanks again for modifying the radio and send Catalog No. 12 when it comes out."  
 "Just wanted to thank you for the great radio (Gran Prix) with mods. It's nice not to have to listen to commercials any more!"

## FMistakes FM Atlas-14

FL Jacksonville p. 140 calls for the booster are WOKV-FM1 (not WIOI-FM1)  
 FL Tallahassee \*91.5 is WFSQ (not WFSU), p. 30  
 GA WestPoint is shown as being in AL, p. 33 map  
 IA Iowa City KRNA map p. 48 should show its frequency as 94.1  
 KS Ogden KOLA 103.5 (moving from 103.9);

list on p. 181 (103.5) as 50000 h,v; 93 m  
 MA Waltham WCRB 102.5 SCS data covers up coverage (52 km), p. 115  
 OR Corvallis KEJO 101.5 data misaligned, p. 176

## See Also March VUD For

AL Fairhope WZEW 92.1 rp, Falconer, p. 31  
 CA Julian KBNN 100.1 "Kabin 100.1 FM," ID with Ramona; is it \$[tereo]? Lobel, p. 25  
 FL Coral Gables WHQT 105.1r, "Station News," p. 31  
 FL Holmes Beach WISP 987.7 "Wispy 98.7"; is it \$[tereo]? "Station News," p. 33  
 FL Pensacola WMEZ 94.1 apparent format change to rm, Falconer, p. 31  
 GA Gordon WNEX-FM 107.1 107-X, "Station News," p. 33  
 IA Jefferson KLSN 98.9 m, not b, Hawk, p. 30  
 KS Great Bend KZXL 107.9 Z-108 (from "XL-108"), Hawk, p. 30  
 KS Ogden KOLA 103.9 (moving to 103.5); list on p. 181 FM Atlas-14, to be 50000 h,v,h,v; 93 m, Hawk, p. 30  
 MN Cambridge WLOL now 105.3, having moved from 105.5, "Station News," p. 33  
 MN Thief River Falls KSRD \*90.1 not "Thief River Falls," p. 12. Let's all strive for more accurate spellings in the VUD!  
 MO Columbia KFMZ 98.3 ID with Jefferson City, Falconer, p. 31  
 NY Auburn WPCX 106.9 Country 106.9 (from "Picks 106"), Shafton, p. 33  
 NY Cape Vincent WKGK 102.7 Lite Rock 103, ID with Kingston ON; is it \$[tereo]? "Station News," p. 31 [-94"], Hall, p. 34  
 NY Danville WACZ 93.9 Lite 94 (from "Z-1")  
 NY Jamestown WNJA \*89.7 is not a translator, but a full power relay, Ross, p. 12  
 OH Chillicothe WFCB 94.3 FCB-94 (from "B-94 FM"), Hall, p. 34 [p. 30  
 OK Ketchum KGNU 107.5 K-Grand, Hawk, /  
 PA Telford WBMR \*91.7 apparent format change to g from c, Oetting, p. 35  
 NL Sabinas Hidalgo XHSAB 89.5 mono, assumed temporary, Hawk, p. 30  
 Thanks, Greg Coniglio, "Column Notes," for the nice FM Atlas plug, p. 30, and to the club for the nice ad, Feb., inside back cover.

## NonIDs in Use

*Mentioned usually without call letters, "strict" if a station only uses call letters once per hour as required by the FCC let or near top of hour*  
 AR Ashdown KARQ 92.1 Q-92 All Hit Country (from "Country 92")  
 AR Camden KCAC \*89.5 KC-89; is it \$?  
 KWEH 97.1 uses calls of KAMD 910 which it simulcasts (except at top of hour; was "FM-97") [try 105  
 AR Crossett KAGH-FM 104.9 Super Coun-/  
 AR El Dorado KBLT 95.9 Lite 96  
 AR Hot Springs KBMB 96.7 KB-96  
 AR Malvern KISI 101.5 Sunny 101.5  
 AR Warren KWRF-FM 105.5 uses calls, not "Magic 105" ["Bright 99-5"]  
 DE Wilmington WJBR-FM 99.5 Mix 99-5 (from/ FL Fort Lauderdale WAXY 105.9 Waxy 106 (back to, from "Mix 105.9")  
 FL Homestead WXDJ 95.7 Radio El Sol (from "Radio Ritmo," which goes to 98.3-see "Facilities Granted" above, ending LMA)  
 FL Miami WQBA-FM 107.5 FM 107.5 (in Spanish; from "Super Cool")  
 FL Sarasota WHPT 102.5 The Point  
 GA Gordon WNEX-FM 107.1 107-X  
 IL Macomb WJEQ 102.7 Rock 103, ID with Galesburg  
 IL Marshall WMMC 105.9 Oldies 106 (from "Cool 106"), ID with Terre Haute (IN)-Charleston  
 IN Elkhart WLTA 100.7 Lite FM  
 IN La Porte WCOE 96.7 The Eagle. COE stands for Ken Coe, owner. "Their AM, WLOI, is

simulcasting the FM" temporarily  
 IN Greenfield WZPL 99.5 ZPL  
 IN Spencer WSKT 92.7 KT-93 (not "Hot Kickin' Country"), ID with Bloomington, but not with Ellettsville any more ["V-91"]  
 IN Vincennes WVUB \*91.1 Easy 91 (from/ IA Ames KEZT 104.1 Light 104  
 IA Ankeny KMXD 106.3 Soft Mix 106.3  
 IA Fairfield KIKK 95.9 Kick 96, ID with Ottumwa, "but their signal is bad in some areas [of Ottumwa] and they've quit doing promotions here" ["Country 92"]  
 IA Osakeine KQEL-FM 92.3 High Country (from/ IA Osakeine KBOE-FM 104.9 Country Connection. "They're trying to be more regional."  
 KY Henderson WKDD 98.5 KDD 99.5 (from "KQ-99") [ing "Fun Radio"]  
 LA Alexandria KQID 93.1 still 93-010, not us/ LA Benton-Shreveport KLLX 92.1 Oldies 92.1 FM (from "Cool 92.1")  
 LA Dubach-Ruston KPCH 97.7 The Peach  
 LA Shreveport KWKH-FM 94.5 94 Country (from "Radio Ranch")  
 MD Baltimore WBSB 104.3 Variety 104.3 (from "B-104"), but still r ("hot AC")  
 MN Duluth WAVC 105.1 FM-105 (not strict)  
 PA Oliphant WZVZ 95.7 Z-95; is it \$?  
 TX Amarillo KATP 101.9 Rock 102, The Cat  
 TX Commerce KETR \*88.9 The Mint  
 UT Provo KZDL 96.1 X-96 (from "K-96.1")  
 PQ Montreal CJFM 95.9 Mix 96 (from "FM 96")

## Multi-City IDs in Use

AR Maumelle KOLL 94.9 still IDing as Pine Bluff-Little Rock [100.1 FM"]  
 CA Julian KBNN 100.1 with Ramona, "Kabin/ UT Norfolk WEFX 95.9 with Greenwich, "95-9 Ihe Fox" [Bethany MO  
 IA Osceola KJJC 106.9 with Des Moines/  
 LA Bastrop KTRY-FM 94.3 with Monroe-West Monroe, "Touch 94.3"  
 KRVV 100.1 with Monroe, "The River 100.1"

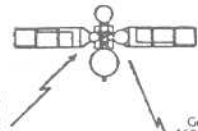
## AM Happenings Most Likely Caused by FM (Selected)

AL Lexington WKNI 620 silent  
 CA Fort Bragg KDAC 1230 silent  
 CA Los Angeles KMPC 710, still owned by Gene Autry, goes all sports by end of April, no MOR  
 CA Santa Monica KBLA 1580 dumps business talk in favor of relay of monophonic KWIZ-FM 96.7 Santa Ana. "The business format lasted less than one year on KBLA."  
 DC Washington WGMS (changing to WTEM) 570, dropping classical to be all sports (only on WGMS-FM); WYAL 630 loses Redskins. [FCC HI Kailua KLEI 1130 off air, calls deleted by/ KY Inez WFJT 1590 off air, deleted by FCC  
 ME Presque Isle WKXZ 950 off air, FCC deletion  
 MD Brunswick WTRI 1520 silent  
 MD Leonardtown WKIK 1370 silent  
 NJ Oakland WVRN 1160 "still not on air!"  
 NJ Washington WSRR 1580, silent for "several years, has now vacated the premises. The tower is still standing, but the equipment and studios are gone. Rumor is the station (i.e., tower and license) is for sale, asking \$75,000."

## FM Rulemakings Proposed

*First date is deadline for filing comments at the FCC; second date is for replies. Stations affected, if any, are listed.*  
 AR Dumas 106.9C3 for 107.1A, XKFE, Apr. 6, 21  
 AR Marianna 105.3A for 106.9A, with Dumas  
 CA Fort Bragg 95.3B1 for A, KOZT, Apr. 10, 27  
 CA Quincy 102.1A for C2, KOQC, with Shingle Springs [FM, Apr. 3, 20  
 CA Shingle Springs 101.9B for B1, KFIA-/  
 HI Poipu 95.9A, Mar. 30, Apr. 14 [21  
 KY London 92.3C3 for 92.5A, WYGE, Apr. 6, /  
 KY Hazard 92.5A for 104.7A, WJMD, with London [with London  
 KY Hyden 104.7A for 92.3A, WZQQ, / 73, 92

## SATELLITE NEWS



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

Another 30 days has passed and time for another run down of what's changed or not in the satellite world. What's interesting (or not so interesting) is that there is a lot of petty movement of services - nothing of major consequences at this time. But that may soon change.  
 Video Shopping Channel VCC is on Spacenet 3 XPDR 16  
 MSG Network was noted recently on F4 XPDR 15  
 Probably a one-shot affair - Sky Television from England was noted in PAL color on Galaxy 2 XPDR 14 with what appeared to be a stock-holders type of meeting program

The Arab American Network is on F2 XPDR 1 with varied Arabic Programming - some locally produced - others from Arabic Nations.

Sat. Market USA noted on W5 XPDR 15.

On C5 XPDR 18 some weak video and sound noted, but what it was couldn't be identified. This is very unusual in that I believe the even transponders are not CONUS but Alaska beamed and, at this location, shouldn't be visible at all.

CNBC on F3 XPDR 6 is now VC2 encoded  
 CMT (Country Music Television) on G1 XPDR 13 in now VC2  
 Also on G1 XPDR 6 is the most varied array of services I've seen in a long time. Everybody has been using this from ESPN/Disney/Shop-At-Home/USA etc. for various promotional programming to whatever.

Morelos 1 - I've noted flickers of video on XPDR's 21 and 23 and someone in MAC coding on 15.  
 On Morelos 1 - a flicker on 19

New on Intelsat 53W - LS85 - Ch 13 - Buenos Aires, Argentina on XPDR 14H - TV Rio de la Plata - sometimes in the clear - others in MAC. This is a powerhouse signal - as if the beam was into my backyard. It causes signal degeneration of the BBC/ITV London feed on 14 V

If Galaxy 5 was successfully launched - look for major changes in the very near future.

That's all for now - hope to see you in 30. '73's

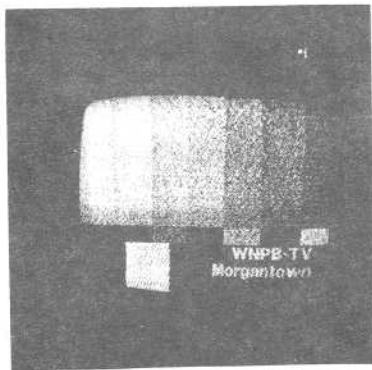
*George*



William Eckberg - Dixon Illinois starts off this months installment of Photo-News. Equipment: 1966 Zenith b&w tube type receiver model ch 14N22, modified Zenith 175-2225 detent tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish with RDX Labs UA900 (round) preamp at 52' and 125' of Jerrold CAC-11 coax.



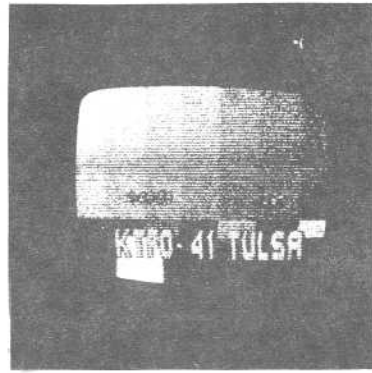
**CITY2-31**  
Woodstock, Ontario  
442 mile tropo  
seen December 31 1991  
at 0220 CST



**WNPB-24**  
Morgantown  
west Virginia  
508 mile tropo  
seen December 31 1991  
at 0455 CST

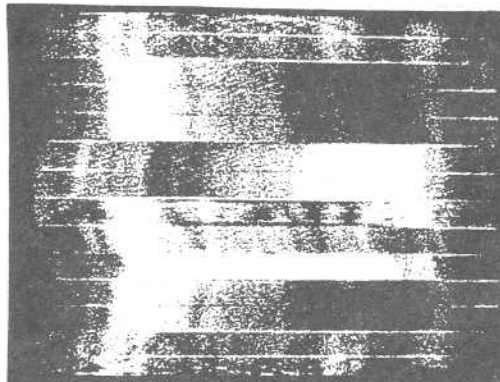


**KTWU-11**  
Topeka Kansas  
375 mile tropo  
seen January 4 1992  
at sign off  
"race"

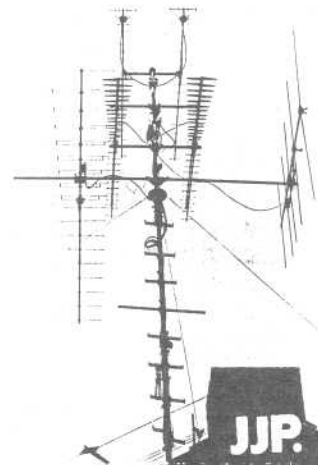


**KTFO-41**  
Tulsa Oklahoma  
519 mile tropo  
seen January 4 1992  
at 0450 CST  
"new call"

Next is Joop J. Prosee - Spanbroek Holland.



"The Iranian FuBK Testcard via F2 on Ch1.E2. Without clock(?), ERP power unknown. Offset BP = +10.4kHz. Distance estimated 4600km"



"my highest DX-mast with a topeight of 15m (50 feet) with on top two stacked Yagi's for Chls E55-E70. Going downwards, two stacked TeldeA/PHILIPS TV21 65/40MULTIPLING UHF-antennae for Chls E21-E65. Normally I use four stacked MULTIPLES but two are to be over-hauled. Below left, TELECASTER 30818 Band-3 antenna for Chls. E5-E12(174-230MHz) this is a LogPerYagi with 8 T-Match dipoles 1 Yagi reflector and 9 Yagi directors. Below right, vertical mounted LogPerYagi for 47-100MHz with 4LogPer dipoles and one Yagi director."

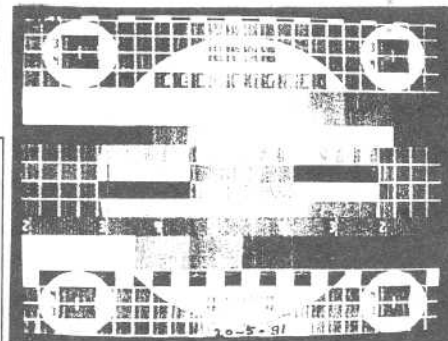


"Russian S/off slide, received via Es on Chl. R1. The slide reads in Russian: "Don't forget to switch off your TV set."

From your editor; remember to include ALL information about the photos you send in. This should include: station call or name, the city of license, province or state; country if not Canada or United States. Distance in miles or kilometers but state which one you used. Mode of propagation. Date of photo (reception) and if you wish the time and zone used. This will help us all understand and enjoy the photos you've taken the time to send in.

More from Bill & Joop next time.

DAVE



"Russian LIET taetcard via Es TX Leningrad (now St. Petersburg). ID ЛЕИИПРА in top. 24kw ERP, offset Zero, distance 1710km."

# NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NY 14221

For DXers in: MA, NH, VT, CT, MA, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR, AK, Canada

OCTOBER 1991 DEADLINE: The 5th LOG CUTOFF: 2 months from when mailed

Keep an eye out for e-skip soon! Do not write off the chance of skip in April; it can and has happened. The best April opening of the past 10 years occurred on April 27, 1987. 5 DXers reported 45 different loggings to the VUD on that day. Other openings occurred on April 25, 1986, April 30 & 7 in 1984, April 28, 1987, and April 21, 1982. The past few years have seen very little April Es activity, so maybe we are overdue! More reported on the big December 28 opening in the Northeast, plus there were some good openings the last week of January and the first week of February. No off season e-skip has been reported this month, so things have quieted down in that regard. Let's here from you!!

ROGER WINSOR - 706 LONG RUN - VALPARAISO, INDIANA 46383 (219) 759-3131

DECEMBER 1991 DX CST

21 Tr

1958 WLRX 95.7 IN Nappanee, local basketball and spot.  
2015 WPBK 97.5 MI Whitehall, k, claiming #1 Muskegon Country  
23 GW  
2358 WXAV 88.3 IL Chicago, sign off after blues program

**WROT**  
220 South Russell Avenue  
Williamsport, PA 17701

I guess a re-intro is in order since it has been many years since I have last reported to WTFDA (Welcome back Roger. Hope to see you report again!-gc). I got my first start back in the early days of WTFDA with Morrie, Pete, and John Zondlo. HQ was in Milwaukee then. I used to DX with a Kenwood tuner which was destroyed in our house fire in 1986. I am 51, married with 4 grown girls and a 5 year old son which takes up much of my time when I am home. I work 14 hour days so have little free time, especially DX takes a back seat. But I still do pick up new things as I browse the dial. I use a GE Superadio with the 110 filter which Bill N. altered for me this summer in Dunksirk. A tremendous difference!! I use a dipole hand held or standing up, a remarkable little stick. Totals at 1042 with 36 states, 3 provinces and 1 Mexican. The 88.3 logging was made possible only because WDSO in Chesterton has some sort of weak dead carrier that ruins 88.3. When WDSO is off the air for the summer or Christmas break it disappears. I never have called them up to complain. I completely missed the 12/28 ducting. If conditions are up I would appreciate a call if on weekends. None collect please. Good DX, Roger

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

Equipment: modified JVC R-X330V w/indoor dipoles

DECEMBER 1991

28 IR  
1846 CBON21 104.9 ON Gogama 295  
(FF, 15 db)  
29 IR  
0105 CBON17 95.1 ON North Bay 185  
(FF // CBON21, 10 db)  
0108 CKLP 103.3 ON Parry Sound T  
(Music Radio, 10 db)  
0109 CJRQ 92.7 ON Sudbury T  
(Rock Radio Network, 10 db)

JANUARY 1992

29 IR  
2359 WIYQ 99.1 PA Ebensburg- 225  
Johnstown-Altoona

FEBRUARY 1992

5 IR  
0000 WDBA 107.3 PA Du Bois 175  
0202 WLM1 103.9 PA Kane-Warren- 160  
(u/CBBP) Bradford  
0322 CKAT 101.9 ON North Bay (k) I  
6 GW  
0346 WRQ1 95.1 NY S Bristol-Roch 133  
(ex-W5ZH, 'Rocket-95', 15 db)

**joy96wije**

1700 Rand Bldg., Buffalo, NY 14203 (716) 856-3550

**STATION NEWS:** KPVR 98.1 AR has changed city of license to Millington, TN, and subsequently changes calls to WPVR. They want to move closer to Memphis I guess. WDXZ 104.5 Mt. Pleasant-Chadeston, SC is back on the air, with a hot a/c format and "Mix 104.5" slogan. In Seattle KUBE 93.3 stays top 40 but goes more to a dance approach. In Wyoming KKAZ 100.7 has gone silent, same fate for KWIC 107.9 Beaumont, Texas. In Florida, WSTF 101.1 Cocoa Beach is now WVR1, and "Variety 101.1" same a/c format though. In Lincoln, Neb. KFGE 105.3 is on the air, with Unistar country, and a "Froggy 105.3" slogan. Thanks Mike Hawk WZRH 106.1 Picasune-New Orleans is moving more to a mainstream album rock format. In Houston, KRBE 104.1 adds a modern rock show evenings WSFU in Montgomery is reportedly on the air with a "Power 94" slogan. WZIO 94.9 South Boston, Ohio is on the air with country, "Z94", WRRL in Rainelle, West Virginia moved to 95.3, and is mono.

## NORTHERN FM DX

APRIL 1992

DAVE NIEMAN-12284 NICE RD-AXKRON NY 14001-9529

Equipment: Carver TX-11 tuna IF filter medicated, Channel Master Stereo Probe 9 at 26' 13.1875629" above ground level. Alliance HD-73 router and RG-11 coax. New loggings are underlined. New propagation mood uhuh. New call [K4444].

JANUARY 1992 DX

1 Groundwave & troposcatter  
(from Buffalo)  
0900 WREN 102.5 NY Buffalo, ID, m mono 20  
0921 WJOL 104.1 NY Buffalo, call k mono 4  
1000 WRNY 92.9 NY Buffalo, ID, m mono 16  
1017 WJTN 93.3 NY Jamestown, call, m mono 65  
1059 WJNE 103.3 NY Buffalo, ID/1080 AM, r mono 14  
3 tropo & Groundwave  
0759 WJG 97.1 MI Detroit, call, m mono 230  
0901 CFRB 99.9 ON Toronto, call, m mono 70  
1000 WRRR 107.7 NY Wethersfield, ID/WRRR, WRRD,  
WRRR, WRRR & WQXR, c mono 37  
1200 CBL 99.1 ON Toronto, ID, c mono 70  
1401 CHFT 98.1 ON Toronto, ID, mc mono 70  
1437 CKLB 93.9 ON Oshawa, call/1350AM, m 71  
2200 WJHD 95.7 NY Allegheny, s/off, c mono 65  
2201 WJRC 99.9 PA Erie, call, m mono 90  
8 L9999  
0800 WXYZ 101.1 MI Detroit, ID/1270AM, r mono 230

DECEMBER 1991 DX

31 tropo  
0832 WPHN 90.5 MI Gaylord, ID, g\$ 337  
JANUARY 1992 DX  
18 Troposcatter  
1520 WJVL 88.3 VA Lynchburg, call, g\$ 386  
23 troposcatter  
1477 WJZN 106.7 VT Vergennes, call+  
"THE WIZARD", op\$ 277  
28 Meteor & tropo scatter  
0854 WXXI 106.7 FL Leesburg, "XL-106.7"  
ex-WJLY, prev. E-skip 995  
0901 WRQX 107.3 DC Washington, "MIX-107.3" 292  
FEBRUARY 1992 DX  
16 Meteoroscatter  
1025 WJAI 99.1 IL Danville, call  
female voice "...WJAI..." 509  
17 Troposcatter  
0814 WJHK 99.1 OH Dayton, call, k\$ 371

I sent for and received the distance printout from Fred Nordquist (see Feb. 1992 VUD NFM DX column middle of page 26). I got one for Akron and Rock City DX locations. It will make looking up stations distances much easier. Fred didn't ask for but I sent along a S.A.S.E. and the \$2.00 each with my order. Seen a drawing of a simple antenna phase box designed by ETV DX editor Bill Nienajady. I have to give it a try. Dave (Dave, I guess these are in violation of the log cutoff policy, hi. GC)

MICHAEL HAWK (NOOSY) - 10212 P ST - OMAHA, NE 68127-2130 (402) 592-1186

Equipment: Kenwood RT-815; Archer 6 element before 2/8, Antennacraft FM-10 after 2/15.

FEBRUARY 1992 DX

4 GW (CST)  
2000 KFGE 105.3 NE Lincoln, \$, k format,  
'Lincoln's Froggy 105.3', or 'Hot  
Country'.  
2200 KKBZ 106.1 VA Shenandoah, NEW CL's,  
ex KMA-FM; CNN news, Oldies format,  
'The New B-10'.  
20 GW  
2000 KXCR 106.5 MO Liberty, now k; ID  
as 'The New CJ 106.5'; probably  
will change call letters

4 Tr  
2202 KYSM 103.5 MN Mankato  
2206 KEFY 102.1 MN St Paul, \$, K-102  
2230 KWOA 95.1 MN Worthington  
2300 KNSR 88.9 MN Collegeville, APR  
2315 KTCZ 97.1 MN Minneapolis, AOR  
5 Tr  
1221 WJOD 107.5 IL Galena, k  
1223 KRDI 100.5 IA Decorah, \$, AC/AOR  
1227 KPMH 99.7 IA Muscatine, \$  
1230 WCOV 97.1 WI Sparta, \$, WI#2  
2123 WZOK 97.5 IL Rockford, 97-ZOK

The 2/5 tropo was nice to come home to. I'm sure it was much better earlier in the morning, but we had school. I would have missed it all together if we hadn't gotten out at noon. The KFGE intro was interesting. They had been testing for a few weeks occasionally in the afternoon with a unistar satellite feed. Early February they began testing 24 hours a day with a recording of outdoor noises (crickets, frogs, birds, etc.), then switched to regular broadcasts of country music a few days later. I also ID'ed an unID station from the 1/6 E-Skip. XHMG-102.9 from Monterrey increased my total from that opening to 14, with 8 Mexican's, 5 from Monterrey. Reading about Bill Nienajady's phasing system gave me an idea. Why not try coupling an outdoor beam with one of those indoor antennas with the tuning knobs, like the kind they sell at Radio Shack. That would have the capacitor built in already, and be a lot less hassle. I may try experimenting with this down the road, but renewing my VUD subscription comes first! Also, if there are any hams out there that want to set up a schedule with me on 10, 15, or 40 meters, drop me a line. I just upgraded my license to advanced. I finally got the FM-10 up on 2/16. It has a definite edge over the 6 element I was using. I have noticed strange tones on various frequencies across the band. I know that it's nothing in our house. It's just like a carrier on 106.6, 102.15, and 102.95. It is strong enough to block most DX on the frequencies near to them. Anyone who has had anything similar happen, I'd appreciate a letter. By the time you read this, the skip season will be right around the corner! '73's



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

Equipment: Magnum Dynalab FT-101A, Probe 9 at 27 feet with rotor, RG11 feedline, Mag. 205 amp.

**DECEMBER 1991 DX**

28 Tr-super opening, first time I have ever seen a duct to the north!

1916 WIKB 99.1 MI Iron River, k\$, ID 366  
 2050 CBON28 91.9 ON Chapleau, CBC French Mono 308  
 2054 CBON24 90.7 ON Kapuskasing, same 402  
 2058 CBLJ 88.3 ON Wawa, CBC EE mono 343  
 2100 CBE8 89.7 ON Maniyouwage, CBC English Mono 435  
 2102 CBON27 90.7 ON Wawa, CBC FF Mono, strange echo effect with antenna between this and CBON24 343  
 2111 CBLG 89.1 ON Geraldton, CBC EE mno 491  
 2112 CBON22 93.7 ON Geraldton CBC French mono 491  
 2120 CBON20 89.3 ON Thunder Bay, same 499  
 2125 CBON25 97.1 ON Timmins, same 336  
 2131 CBON19 97.3 ON Nipigon, same 493  
 2141 CBON5 101.7 ON Elliot Lake, CBC FF Mono, over local CKNX, same direction!! 204  
 2245 WKLA 106.3 MI Ludington, rm\$ 251  
 29 Tr - dying out  
 0048 [WCKC] 107.1 MI Cadillac, k\$, ex WYTW 196  
 0118 CJQQ 92.1 ON Timmins, r\$, Q-92 336  
 0144 CHAS 100.5 ON Sault Ste Marie, ID\$, weather report. 250

**JANUARY 1992**

9 MS  
 0256 CBAL 98.3 NB Moncton, likely the one with CBC French mono network 831  
 0308 CKSB7 93.5 ON Kenora, same 748  
 0433 WCOS 97.5 SC Columbia, calls 656  
 0713 WPLR t 99.1 CT New Haven, "...of New Haven was stabbed" would have been new state  
 0720 WHFS t 99.1 MD Annapolis, "in Prince Georges County" This would have been a new state too, sigh.  
 7 TrS  
 1240 WSDP 88.1 MI Plymouth, rp\$, ID rare here since CBEE came on 120  
 20 MS  
 0401 WQIK 99.1 FL Jacksonville, "FM 99 WQIK, specializing in today's hottest k" 919  
 21 GW  
 0144 WIXC 97.3 MI Essexville, k\$, uses Wide or Country 97 non IDs, new stn 116  
**FEBRUARY 1992**  
 14 MS  
 0026 KMAG 99.1 AR Fort Smith, "99.1, thanks for making us Fort Smiths..." 882  
**MARCH 1992**  
 1 TrS  
 1700 [WNCG] 100.9 OH Clyde, r\$, ex WLCO 175

That's it for now. December was a great month for DX, with Es, MS, Tr, and even a little Au thrown in. Too bad the same can't be said for 1992 thus far. 73,

**BRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E3**

Equipment: JVC JR-S201 receiver modified with 3 150 khz filters, Magnub Dynalab 205 Signal snueth, Probe 9 fed with RG6 at 50' AGL, Crown Rotor. Phase: Delhi TV antenna at 40', in line attenuator. Thru 2 way splitter hooked in reverse to tuner, same rotor. (distances are in kilometres)

**FEBRUARY 1992 DX**

3 TrS  
 0736 WKJC 104.7 MI Tawas City, k, FM 104 after Chemical bank ad, KJC weather 295  
 4 TrS  
 0802 WCLG 100.1 WV Morgantown, r, CLG-FM "WCLG-FM Morgantown, the home of ---" 391  
 7 MS, TrS, & GW  
 0806 WNL T 95.7 FL Clearwater, r, lite rock 1702  
 0827 WCLR 95.7 OH Piqua, b, "Clear 95.7 WCLR with Chicago "Right before my very eyes" 483  
 1629 [CKRZ] 100.3 ON Oshweken, multiple format "more music on 100.3 CKRZ Grand River Country" ex CFNC, licensed to go to 250 watts, but were still using 50 watts when I called them, mono 25  
 8 TrS  
 0858 WLIF 101.9 MD Baltimore, mr, Lite 102 after Holly Farms ad, Vicky Cox nx update 529  
 9 TrS & MS  
 0649 WLEN 103.9 MI Adrian, legal ID, k 345  
 0700 WWIZ 103.9 PA Mercer, Sharon, Y Town k, 1104 jingle, Mutual News 230  
 0814 WOKO 97.5 NH Dover, "Area cal 463-9750 from the SeaCoast, Portsmouth, and Exeter" 726  
 0817 WCIZ 97.5 NY Watertown, CIZ, "The rock and roll authority, CIZ FM", Bob Seger 334

11 TrS  
 0646 WJIM 97.5 MI E.Lansing, b, EZ 97.5, TC 355  
 0654 WOBE 97.5 WV Charleston, k, Q97, ad 541  
 0701 WONE 97.5 OH Akron, "The home of rock rock and roll 97.5 WONE FM" 258  
 0803 WPST 97.5 NJ Trenton, r, calls 529  
 12 TrS  
 0749 WQRT 98.3 NY Salamanca, k, "98.3 WQRT the home of real country music" 185  
 14 TrS  
 0722 WRKU 95.1 PA Grove City, op, 95 K-Rock "Super Dave and Tina" morning show 437  
 0757 [WRQI] 95.1 NY S.Bristol, r, Rock It 95 and legal ID, new calls, ex WZSH, Wish 95 231  
 15 TrS  
 0759 [WKMF] 101.7 MI Tuscola, k, KMF, new calls and format, ex WGMZ. 262  
 17 TrS  
 0729 WDKX 103.9 NY Rochester, s, "Best variety on Rochester's early morning show" 192  
 20 TrS  
 0730 WSRD 104.9 NY Johnstown, o, calls "Zippo in the morning" 437  
 22 TrS  
 0813 WSYS 104.7 VA Crewe, k, "music that makes the difference, sunday morning gospel", calls 690

73 db

**Report to the VUD!!**

RICHARD SHAFTAN - 39 OLD MIDDLETOWN RD - ROCKAWAY, NJ 07866 (201) 586-3563

BEEPER FOR DX: (201) 955-4256

Equipment: Realistic STA-2280 W/3 110 KHZ filters, channel master 20 element TV 45' AGL. Phased with two Radio Shack FM Outdoor antennas stacked 7 feet apart 30' AGL thru 3 variable attenuators, a phase tilter and a Radio Shack "Variable Interference Eliminator". Both antennas are run through Radio Shack mast mounted amps. (In car: Kenwood KRC-430 w/2 110 khz filters)

**FEBRUARY 1992 DX**

4 TrS  
 1751 98.9/100.5 Rochester in strong in Ogdensburg Sussex Co., ten miles north and west.  
 8 GW & TrS  
 2030 WOSR 91.7 NY Middletown, Irish mx with WAMC ID at the top of the hour. Strong but not so strong as to obliterate the channel.  
 2300 WXLV 90.3 PA Schnecksville, Cl., ID  
 12 TrS  
 2130 WSSH t 99.7 PA Pittsburgh, "Wish Delight the new 99.7 FM"  
 19 TrS  
 2148 WKFM 104.7 NY Fulton, car in Fairfield, NJ  
 20 TrS  
 2146 WENU 101.7 NY Hudson Falls, car in Montville  
 21 TrS & GW  
 1506 WDBA 107.3 PA DuBois, car in Parsippany, NJ  
 2200 WEDW 88.5 CT Fairfield, on air, apparently non-directional  
 2300 WSKG 89.3 NY Binghamton, ID thru WLJP  
 2343 WVOS 95.9 NY Liberty, ID thru WADB, both of these logged via phasing  
 2359 W??? 99.7 NY Middletown? beam north, oldies and 1950s car ads. Sounded like a pirate but could be this testing. Heavy metal next nite  
 22 TrS  
 2022 unID 105.7 "Hot Mix 105.7" (Rich, was the beam north? WHMX in Lincoln, Maine uses that!-go)  
**MAJIC 95.1fm WAJI**  
**REQUEST LINE NO: 219-467-9500**  
 Number one DX concern is new proposed Mahahawkin NJ station on 105.7 which will probably kill the channel.

Bill Nienajadly PO Box 2999 Clifton NJ 07015-2999

Sorry to say, not much to report in the way of DX. WOSR 91.7 in Middletown NY is on the air and they are a relay of WAMC 90.3 Albany. They are in stereo and can be heard on the car radio fading in and out as you drive around here. Thank to Christopher Hanley in IL for the phone call and to Jeff Kadet for writing about Hy-Vee. They are a chain of stores in Iowa and western IL, this makes my UNID 99.7 seem very likely to be KFHM in Muscatine IA, a relog. Thank guys for helping out! Phasing works great as ever, but the conditions have been lousey on average, many relogs via phasing, no new ones though. Still need Maine 102.9 though.

Current equipment set up, 2 Radio Shack 6 element FM only antennas on two separate rotors spaced 10 feet apart. RG-59 coax 100 ft length each line. Andy Solin's phase box, Pioneer TX-9800 tuner modified w/two 180's & three 110's, plus various splitters. And no DX, Goodxing!

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

**FEBRUARY 1992 DX**

15 TrS  
 1615 WALK 97.5 NY Patchogue, rm\$, calls 330  
 1626 WXCX 103.7 MD Havre de Grace, k\$ 273  
 16 MS  
 1226 KTUX 98.9 TX Carthage, "...Great to have you along...Tux 99..Nirvana is..." 1138  
 16 TrS  
 1401 WCLT 100.3 OH Newark, T100, k\$ 279

**JANUARY 23 MS**

0033 WODJ 107.3 MI Greenville, "...WODJ..."  
 24 GW  
 2327 W244AS 96.7 NJ Oakhurst, now with WOBM  
 26 TrS  
 0005 WNPR 89.1 CT Norwich, strong w/WFDU, WNYU, and WWFM off the air  
 0014 WMHT 89.1 NY Schenectady, classical, NPR  
 0058 WCJD 89.1 NY Friendship, religious program  
 In next night as well. WNYU and WFDU have been off the air for several days (still as of 2/28)  
 27 TrS  
 1650 WLJP 89.3 NY Monroe, off the air for several days w/dominants WPFW Washington, DC, WSKG in Binghamton, NY; WCNJ Hazlet, NJ; WRDY Westmistr NJ as regulars, slight trace W207AK Bethlehem, PA  
 29 TrS  
 2200 various bizarre image of Radio Japan from 5.96 Mhz all over the dial, beam NW, fading in and out Can't explain (Hope it's not the radio, has it disappeared since then? -go)  
 2300 WRGN 88.1 PA Sweet Valley, ID WNYU, WFDU, and WLJP all back on  
**MARCH 1992 DX**  
 1 Tr  
 1100 WJFF 90.5 NY Jeffersonville, ID in North Bergen, NJ with very solid signal  
 2355 WRPR 90.3 NY Mahwah, ID and s/off, week  
 2359 WNJT 88.1 NJ Trenton, ID and s/off, very week, FM Atlas lists as 15 watts vertical.

73, Greg

1415 WWIZ 103.9 PA Mercer, k\$, 1104 145  
 1432 WPOS 102.3 OH Holland, g\$, calls phased WJET and CKDK 274  
 2328 WSWR 100.1 OH Shelby, o\$, CKFM phs 251  
 20 Au  
 2337 WDET 101.9 MI Detroit, calls 232  
 24 Au  
 2012 WEZW 103.7 WI Wauwatosa, EZ 104 471  
**APRIL 1 Tr**  
 0000 CJFW 103.1 BC Terrace, nice strong opening, just missed Alaska, %&!% 2409

# SOUTHERN FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

DEADLINE: 14th

APRIL 1992

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

IT'S TIME NOW TO START TUNING IN THE '92 DX SEASON, GOOD LUCK!

Jeff Kruszka, 2324-E Steamship Cir., Harahan, LA 70123

1/6 Es	1726 KSPZ 92.9 CO Co Springs, ID 1030	1/6 Es	1759 KPRN 89.5 CO G. Junction, Public Radio
1730 KMFS 92.7 CO Glenwood Springs, 1170	ID, k	ID, ment. G. Jnc.	1210
1731 KTSK 89.5 CO Pueblo, ID 1000	1737 KJOL 90.3 CO G. Junction, ID, gospel 1210	1850 KRWV 92.9 NM Farmington, "FM 93, Classic Rock", "the crown"	1140
1757 KWSE 91.1 CO Gunnison, ID 1100			

John Tudenham, 2824 Missouri, Joplin, MO 64804

Equipt.: GE Super Radio, Radio Shack DX 400. Just indoor antenna at present. Do most of my DXing on ham bands. Call is WOJRP. Two new stations heard here in Joplin, regular.

2/19	2130 KBVA 106.5 AR Bella Vista, big band adult standards	2/19	2203 legal ID KGMV 100.5, "My country 100.5" k, This is ex KELE Aurora, MO, believed licensed to Republic, MO, now 50kw ERP
------	--	------	---

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

Equipt.: Technics SA-222 & Radio Shack plain rabbit ears

2/13 tr  
0001 WIOV 105.1 PA Ephrata, calls. Had just taped last 90 min. of WAVA as top 40 They then signed off for several hours leaving freq. open. Last words were ".....WAVA, Arlington-Washington and the future has come to this."

I read the Mt. Greylock bandscan confirming what I discovered in WV. Reception on top of mountains not so good, semi-locals become too strong, reception stagnates. Better to work in valleys!

Probably won't be making convention in Cleveland. Have another twilight zone that relates to DXing for the next time I go. Hope to get some of the new stations going on this spring like 92.9 in DEL. Planning to drive to FL to visit parents this summer and with modified set. FL tough due to limited land area and there being so many 100 kws. That spot in S.E. Conn. where they built a casino on an Indian res. might be a great spot for a scan. But the biggie may still be S.W. Penn. Would like to go back to Atlantic City, too. Was surprised on last visit, got better reception on "N.Y.C." side of bldg. Lady we stay with in WV dying of cancer, will go back first week of June, if possible. Hope to do the midway stop in Grantsville again. Even when we get skip here it's no guarantee of adding to total--keep getting LA & TX!

John Stempick, 1438 Colchester Cir., Port St. Lucie, FL 34952

Equipt.: Yamaha TX-930 tuner modified with 2 150 filters (Thanks Steve Solomon), Car stereo: Pioneer supertuner III modified with 1 150 filter & 1 110. All loggings are new IDs received upon relocation to Florida from Connecticut. Stations may have been received more than 1 time; only listed when first received.

This is my first report to the VUD I am very glad to be a part of the world of DXers. I relocated to Florida from Connecticut in October '91. I have had a few good openings since being here. It was great to catch KOGA of Ogallala, NE(ES) back in Nov. I believe the mileage is over 1600 mi. I tape all of my catches and I can't wait until we really get into the trop season here in south FL. The days of going from temps in the 40's at night to warm fronts and highs near 90 in March. I'll be looking for big big openings in March. (Yeah, like gulf trop to TX. March would be one of the most likely times for trop like that. DB) Reception changes frequently here in Port St. Lucie. Certain days and nights feature Orlando, others Miami, Tampa Bay, Ft. Meyers and Jacksonville. I guess for me to report those stations as "tr" would be kind of lame. So anytime south of Miami or North or west of Jacksonville and north of Tampa Bay will be reported. Happy DXing folks!

10/30 tr	0845 WRHT 96.3 NC Morehead City	11/30 tr	1645 WHTR 99.7 SC Hilton Head
11/5 Es	1600 KOGA 99.7 NE Ogallala		1647 WSYN 106.5 SC Georgetown
			1649 WXLV 102.5 SC Charleston

cont....

## SOUTHERN FM DX

7/13 tr  
1703 WSSX 95.1 SC Charleston  
1900 WKEX 106.3 GA Kingsland  
1955 WZAT 102.1 GA Savannah  
2003 WLCL 95.5 FL Gainesville  
2045 WGOO 98.3 GA Midway-Brunswick  
2050 WBGGA 102.5 GA Waycross  
2140 WAlA 93.3 FL Jacksonville Market  
2225 WHJX 101.5 GA Brunswick  
2227 WBYZ 94.5 GA Eulonia  
2240 WLOW 106.9 SC Bluffton  
2253 WFHH 106.1 SC Hilton Head  
2305 WBPR 97.7 SC Myrtle Beach  
11/14 tr  
0704 WFFM 105.7 GA Ashburn  
0725 WKAA 97.7 GA Ocala  
0737 WCHY 94.1 GA Savannah  
1050 WOOF 99.7 AL Dothan  
12/15 ms  
2119 WSKZ 106.5 TN Chattanooga, KZ106.5  
1/4 Es (received in car in Port St. Lucie)  
1815 KATG 94.7 TX Austin(Lulling)  
1817 KHFI 96.7 TX Austin  
1830 KBTS 93.3 TX Austin  
1/7 tr  
0145 WGGD 102.3 FL Melbourne(Over local WHLW Jensen Beach 5 miles.)  
0200 WKZM 105.5 FL Sarasota  
0205 WXTB 97.9 FL Tampa, (o/WRMP West Palm 40 mi.)  
0215 WYNF 94.9 FL Tampa, (o/WZTA Ft. Laud.)  
0225 WMMZ 93.7 FL Ocala, (o/lcl WGXL Vero Beach)  
0245 WXKB 103.7 FL Ft. Meyers, o/lcl WQOL Vero Beach  
1115 WRHQ 105.3 GA Richmond Hill  
1200 WKXZ 104.5 SC Mt. Pleasant  
1315 WWOQ 101.3 NC Wilmington  
1320 WAVE 96.1 SC Hanahan  
1333 WXTG 96.9 SC Charleston  
1343 WYBB 98.1 SC Charleston  
1355 WQNI 102.7 NC Wilmington  
1410 WSPM 107.5 NC Southport  
1430 WQDR 94.7 NC Raleigh-Durham  
1442 WEZL 103.5 SC Charleston  
1457 WYAV 104.1 SC Conway  
1/8 tr  
0147 WBUB 107.5 SC Charleston

## Stempick, cont.

1/8 tr  
0152 WDEW 105.3 GA Macon  
0200 WQZY 95.9 GA Albany  
0225 WFOX 97.1 GA Gainesville-Atlanta  
0238 WJIZ 96.3 GA Albany  
0257 WAEV 97.3 GA Savannah  
0315 WZBX 106.5 GA Sylvania  
0319 WYOC 104.9 FL High Springs  
1/22 Es  
1712 KCMO 94.9 MO Kansas City, oldies 95  
1715 KLSI 93.3 MO Kansas City, Mix 93  
1718 KFKF 94.1 MO Kansas City, 94 FM KFKF  
1720 KLTH 99.7 MO Kansas City, Light 99.7 KLTH  
1725 KCBW 92.1 MO Sedalia, B92-KCBW  
1736 KEFM 96.1 NE Omaha, Light 96  
1741 KZKX 96.9 NE Seward, 96 Ricks  
1744 KNCY 97.7 NE Nebraska City  
1750 KFMZ 98.3 MO Columbia, 98.3 KFMZ  
1751 KQKQ 98.5 NE Omaha, Sweet 98  
1754 KGOR 99.9 NE Omaha, great oldies KGOR  
1758 KGBI 100.7 NE Omaha (xlator of KMZO, MO?)  
tr  
2358 WSFL 106.5 NC New Bern  
1/23 tr  
2100 WNPB 94.3 FL Lake City, B94  
2250 WYKS 105.5 FL Gainesville, Kiss 105  
1/30 tr  
0200 WPIK 102.1 FL Key West, Picket 102  
1/31 ms  
1813 UNID? 96.3 "96 Country KNG?" (Any help?)  
2/12 tr  
0011 WSTH 106.1 AL Alexander City, South 106  
0930 WTCQ 97.7 GA Vidalia, 98Q  
0945 WJTN 101.3 AL Dothan, Joy 101.3  
0950 WZHT 105.7 AL Montgomery, HOT 105.7  
1000 WKRS 103.9 GA Swainsboro, 104 FM  
1053 WXUS 100.5 AL Fort Rucker, US 100  
1100 WGPC 104.5 GA Albany  
1135 WSTI 107.1 GA Thomasville, Sunny 107  
1205 WNTI 105.3 GA Valdosta, Star 105.3  
1209 WMLQ 104.9 FL Havana, Mellow 105(YAWN)  
1215 WQHL 98.1 FL Live Oak  
1219 WDJR 96.9 AL Enterprise, G. Brooks Radio  
1225 WZAD 97.3 GA Cambridge, Power 97  
1236 WVRK 102.9 GA Columbus, Rock 103  
1915 WOWW 107.3 FL Pensacola, WOW 107  
1918 WZBA 104.9 AL Moss Point-Mobile, Bay Ctry  
1920 WVAH 96.1 AL Mobile, oldies 96  
2345 WWSF 98.1 AL Andalusia, 98 Surf FM

Alain Pepin, 234 Boul Montcalm, St. Jean (Quebec) J3B 3N8

Danny did you get my report from the Dominican Republic? (No, I misplaced it. Sorry. Can you send another one? DB) Well, here is one from Bonaire. I didn't hear any FM from Caracas, the AM was astoundingly clear! YVKS 750 was splashing from 720 to 770! PJB was sandwiched between two very loud blasters from Coro on 780 and 820.

DX at the Black Durgon Inn, Bonaire, Netherlands

Equipt.: Sanyo MW-750 with built-in antenna, Times: ATLANTIC (UTC-4h)

Normal reception:

Feb 10 1002 RJC?	93.9 N.A. Willemstad, "Radio Kursou FM"
Feb 10 1304 PJB2	94.7 N.A. Bonaire "Voz di Bonaire 94.7 FM stereo: tur dia for di seisor di mainta te cu diesdosor di anochie": Papiamento for "Voice of Bonaire, every day from 6:AM to midnight". English ad for Coke
Feb 09 0600 RJZ	95.5 N.A. Willemstad "95.5 Z-FM" sign-on in Papiamento
Feb 11 1000 PJB3	97.1 N.A. Bonaire "Ritmo FM", automated pop mx Recurring jingle: "Mas cerca bo via bo radio, Ritmo FM" Papiamento for "Closer to you thru your radio, Rhythm FM"
Feb 09 0900 RJC7	101.9 N.A. Willemstad "Aqui ta Radio Hoyer": papiamento //1010kHz cont.

Feb 03 2100 RJC9 105.1 N.A. Willemstad "Hoyer Clasico, interval signal"

## TROPO:

Feb 08 2000 YV ? 92.9 VEN Barquisimeto "Dinamica" jingle, same as 1490 YVXD Caracas, Time check: "8:03 Dinamica Hipica" Horse race race results, ment. "Amigos y amigos de Dinamica 92.9 la FM #1 en Barquisimeto" 160 mi.

Another unID wgas heard around 98 MHz with Barquisimeto ads but not ID.

N.A. = Netherlands Antilles VEN = Venezuela

All stations in stereo, no noted subcarriers. Willemstad was 50 miles away, and I was sitting on Bonaire. Radio Nederland was heard throughout the FM dial because of shortwave overload from the nearby towers.

Christopher J. Dunne, 21541 Nw 8 Ct., Box 81, Pembroke Pines, FL 33029

Equipment: JVC RA302Ba modified w/ 150kHz filters  
Archer 6-element FM antenna

It's a bit of a dry off-season for FM/TV DX, but I look forward to a big year in 1992. I have some news at the end of my column that I hope will be of use to the DXer who gets a lot of unid SS stuff!

Time	Call	Freq.	St	Location, details	Miles	Time	Call	Freq.	St	Location, details	Miles
11/22/91 Tr						1/25/92 Gw					
2325	WSUV	106.3	FL	Ft. Myers Villas, "Sunny 106.3", rm - NEW	100	1615	....	88.3	FL	PIRATE, "Base (Bass?) 91.9" (sic), o mx w/ "Brother Mike"	?
11/23 Tr						1/17 Tr					
0000	WRBH	88.3	LA	New Orleans, phone QSL by Trudy Stewart, nothing else in this far away	600	2333	WBPT	89.5	FL	Naples, "Power 89.5", s, NEW. TALK NOTE: This is //WSRX 91.5 "The Spark"	75
12/3 Tr											
0900	WJIR	90.9	FL	Key West, ID + "Where Jesus is the Rock"	125						
12/24 Tr											
1130	WPIK	102.5	FL	Summerland Key, k Christmas mx, tests - NEW	110						

Local FM News... WKZY 92.5 LaBelle now SS, //WZOR 1490... WQUP 92.7 Marco now back to b mx... Sarasota 102.5 is now WHPT ("The Point"), r... WALLY 105.9 has gone back to o after a disastrous attempt at the "Mix" r format ("waxy 106"); their last book was a 1.4, which won't "cut it" here...

Hey, does anybody have the new 1992 World Radio TV Handbook? There's great news in there for those of us who hear Central/South America on Es or other method: in this year's book, there are lists of FM stations there (in capital cities only). This is a start anyway; maybe they'll carry all Latin FM in later editions. The only way, however, to convince the WRTT to do so is to write them. Also - if anyone has reported Latin FM in a column, make a copy and send them one. Back-issue VUDs might help, so they can see that Latin America isn't "immune" to being heard. Please write (Postage 50¢ for 1/2-ounce):

Andy Bennett  
WORLD RADIO TV HANDBOOK  
P.O. Box 9027  
1006 AA Amsterdam  
THE NETHERLANDS

PAT Dyer WA5IYX, 5315 Silvertip Dr., 78228-2744

Dec 1991

## 2: (Es)

1711 CJBX 92.7 ON London  
1723 DKLW 93.9 ON Windsor  
1729 WAMU 93.5 DC Washington  
1751 WUTY 93.7 VA Norfolk  
1759 WYLL 88.3 VA Lynchburg  
1819 WJNC 91.5 NC Chapel Hill  
1839 WJIE 88.5 KY Knoxville

## 3: (Es)

1655 WRVL 88.3 VA Lynchburg

## 11:

0551 WJIE 88.5 KY Knoxville (ms)  
0550 WJDR 88.5 IA Sioux Center (ms)  
0755 WBYN 89.7 TN Chattanooga (ms)  
0814 WNNC 107.7 TX Georgetown (tr)

CONT.....

## 12:

2800 WBCA 88.5 IL Quincy (ms)

## 13:

0508 WSKR 92.5 KY Owensboro (ms)  
0659 WJDE 91.5 NE Omaha (ms)

## 14:

0559 WJOS 91.5 NE Omaha (ms)

## 17: (Es)

1811 WBOF 93.5 FL Belle Glade  
1822 WKIS 99.9 FL Boca Raton  
1825 WLYF 101.5 FL Miami  
1825 WRMF 97.9 FL Palm Beach  
1830 WPOW 96.5 FL Miami  
1832 WCMG 92.3 FL Hialeah  
1834 WVCU 94.5 FL Naples  
1846 WRSI 93.5 FL Naples  
1849 WLVE 93.9 FL Miami Beach  
900 WMCU 89.7 FL Miami

## 21: (Es)

906 KKFR 92.3 AZ Glendale

## 24: (Es)

1701 TG-- 88.5 Gua

## 17: (tr)

1848 XHSRO-92.5 NL Monterrey

all Es unless noted

## 2:

1757 WQZN 88.7 FL Key West  
1000 WEDW 92.5 FL Key West  
1001 WKEY 93.5 FL Key West  
1333 WDMQ 92.3 FL Hialeah  
1904 RBN 1 88.9 Bonaire (ms)

## 3:

1624 YSEV- 89.7 EIS San Salvador  
1526 TG-- 88.5 Gua  
1630 TGFP- 88.1 Gua Guatemala City  
1632 TGRT- 88.8 Gua Guatemala City

## 4:

0159 WVRN 88.5 WV Charleston  
0203 WQSH 89.7 GA Columbus  
0203 WYSS 88.5 MN Rochester (ms)  
1625 TG-- 88.5 Gua

## 5:

1749 WROD 93.7 AZ Tucson  
1752 WKLD 94.9 AZ Tucson  
KTZN 92.1 AZ Green Valley  
1759 WBRK-107.9 TX Johnson City (tr)

## 6:

1630 WPTL 88.5 VA Lynchburg  
1638 WBOF 93.5 FL Belle Glade  
1640 WAXM 93.5 VA Big Stone Gap  
1652 WNSI 98.7 NC Greensboro  
1836 WKRK 92.3 NC Asheville  
1839 WYHK 89.7 SC Columbia  
WRJA- 88.1 SC Sumter  
1780 WYVA-101.5 GA Marietta  
1781 WYVF 97.9 FL Palm Beach  
1710 WVCU 94.5 FL Naples  
1716 WYFD 93.7 FL Fort Lauderdale  
1718 WLYF 101.5 FL Miami  
WDMQ- 92.3 FL Hialeah

1758 KLDZ 95.1 NE Lincoln  
1741 KISD 93.7 MN Pipestone  
1747 KEZO- 92.3 NE Omaha  
1746 KKOK 95.7 MN Morris  
1751 KELO- 92.5 SD Sioux Falls  
1759 KIWR 89.7 IA Council Bluffs  
1809 KTRX 93.5 MO Tarkio  
1819 KLGR- 97.7 MN Redwood Falls  
1822 KMIT 105.9 SD Mitchell  
1838 KESD- 88.5 SD Brookings  
1852 WNNF 88.5 FL Tampa  
1856 WZZR 92.7 FL Stuart

## 7:

1000 WNNF 88.5 FL Tampa

## 8:

1712 XHSRO-92.5 NL Monterrey (tr)  
1725 TG-- 88.5 Gua  
1735 YSEV- 89.7 EIS San Salvador  
1747 TGHR- 99.6 Gua Guatemala City  
1749 YSEC- 94.5 EIS San Salvador  
1805 YSOZ- 98.5 EIS San Salvador  
1808 XHMX 97.9 CHI Tapachula  
1816 TG-- 88.1 Gua  
1821 TG-- 103.7 Gua

## 16:

1537 TG-- 88.5 Gua  
1702 TGFP- 88.1 Gua Guatemala City  
1747 TGN- 100.8 Gua Guatemala City  
1750 TGHR- 99.6 Gua Guatemala City  
1809 TG-- 96.3 Gua  
1811 YSEV- 89.7 EIS San Salvador  
1818 YBEX-105.7 EIS San Salvador  
1820 YSKL-104.1 EIS San Salvador  
1823 YSEC- 94.5 EIS San Salvador  
1825 YSUN-107.3 EIS San Salvador  
YSEC- 94.5 EIS San Salvador  
1841 TDJ- 95.7 Gua Guatemala City

## 18:

1628 WMTX- 95.7 FL Clearwater  
1650 WYUU 92.5 FL Safety Harbor  
1657 WZZR 92.7 FL Stuart  
1701 WONG 89.9 FL Stuart  
1703 WKPX 88.5 FL Sunrise  
1706 WBOF 93.5 FL Belle Glade  
1710 WMCU 89.7 FL Miami  
1712 WPOW 96.5 FL Miami  
1715 WZTR 94.9 FL Miami Beach  
1718 WCMG 92.3 FL Hialeah  
1722 WYVJ 88.7 FL Fort Myers  
1732 WLVE 93.9 FL Miami Beach  
1742 WXDJ 95.7 FL Homestead

Many thanks to YS1AG in El Salvador for helping with the ID's. I wish that I could find someone in Guatemala now!  
March '92 QST has an article based on my FM Es data collecting from 1980-90.

73, Pat  
WA5IYX



# EASTERN TV-DX

Bill Nienajadly  
PO Box 2999  
Clifton NJ 07015-2999

APRIL 1992 Cutoff 3 months Deadline The 5th

A one pager this month, which is sort of expected this time of the year. In the meantime this might be a good time to check your antenna system out, since the tropo and E-Skip season is only a month or so away. Check your coax, antenna lead-ins and replace it if needed. You know spring cleaning.

UNIDs should be sent to Matt Sittel, who is now running the CCI column. ETVDX will still print some unids as in the past. The last few ETVDX columns, other WTFDA members were real quick to help ID stations and quickly point out and correctly answer any UNIDs one might have had. So until the CCI column appears more often, we will continue to print unids. Please don't report stuff like UNID 31 without more information like UNID 31+, UNID 31 PBS UNID followed by something, otherwise it is a waste of time.

Those who check out TV often for signs of tropo ducting, should use other indicators too. Check out the National Weather Service 162+, check the HAM UHF bands, use your scanner for tropo searching. A scanner often has much more sensitivity than TV sets. ON to the DX

Bruce Hall 5 Stirton Ave Brantford Ontario Hitachi CJ-130 Converter, Teknika TVC-22. Channel Master pre-amp  
Delhi Combo VHF/UHF antenna at 40 feet.

## January 1992 Tropo

29 2300 WPSX 3 PA 30 0029 WLYH 15 PA 30 0059 WETM 18 NY 29 2359 WENY 36 NY  
29 2320 WACP 8 PA 30 0030 WNEP 16 PA 29 2230 WHP 21 PA  
30 0240 WTAJ 10 PA 30 0030 WPHL 17 PA 29 0000 WYOU 22 PA-ment 98.5 WKRZ

Jerry Beaudin Route 3 Box 2651 McMillan MI 49853

## December 1991 Tropo

27 2023 CITY 57 ON 358 28 0032 WFMJ 21 OH 436 28 0222 WPGH 53 PA 488 29 1913 WMBD 31 IL 429  
2035 CFMT 47 ON 358 0033 WYTV 33 OH 437 0234 WTCZ 40 NY 564 1914 WEEK 25 IL 429  
2037 CBLFT25 ON 358 0045 WJAB 43 OH 389 0246 WITE 28 OH 441 1924 WICD 15 IL 438  
2059 WNEO 45 OH 439 0126 WPTT 22 PA 500 0301 WMPG 23 PA 534-TP 2221 WOAC 67 OH 429  
2228 WSYT 68 NY 523 0129 WOTD 19 OH 391 0308 CFMT 47 ON 358-TP 2227 WYZZ 43 IL 421  
2234 WMTI 50 NY --- 0139 WPMI 43 PA 627 0823 WBNX 55 OH 398 2229 WHOI 19 IL 429  
2258 WCNV 24 NY 528 0144 WJET 24 PA 402 0958 CFTO 9 ON 358 2234 KLJB 18 IA 408  
2259 WQAZ 23 NY 629 0159 WKBN 27 OH 437 1359 WQNY 62 (W52AN)-nt 2 2323 WQOW 19 WI 320  
2306 WERE 28 PA 602 0201 WENY 36 NY 523 29 1900 WAND 17 IL 459 2323 WQOW 19 WI 320  
2316 K5AX 42 MN 454-nt 1 0205 WYTV 33 OH 437 1903 WICS 20 IL 480 2320 KYIN 24 IA 399

Note # 1 Off back of antenna which was pointed at NY stations.

Note # 2 ID-ed as WQNY-only ID given-(Jerry, it does point to Newdrow NY with 11.5 kw-congratulations!-BN)

## JANUARY 1992 Tropo

4 2200 KRIN 32 IA 404 4 2400 KTIK 21 IA 487-nt 1 5 0907 WKEF 22 OH 494 5 1314 WQRF 39 IL 319  
2334 WQOW 19 WI 320 5 0053 KMEG 14 IA 579 1159 WXTN 29 IN 437 28 2211 KDSM 17 IA 494  
2336 WQOW 18 WI 299 0059 WLAX 25 WI 321 1203 WFTF 55 IN 353 2216 WLAX 25 WI 321  
2358 K5IN 27 IA 579 0102 Note # 2 1208 WEHT 25 IN 583 2221 WQOW 19 WI 320  
2359 KYIN 24 IA 399 0859 WQPT 61 Note 3 1229 WLFJ 18 IN 404 2223 KYIN 24 IA 399

Note # 1 On IQWA public TV stations only ID was IPTV, not each station's call letters.

Note # 2 Test Patterns Iowa Public TV on channels 21,24,27,32.

Note # 3 PBS another translator that I don't know what it is- ch 61 carrying ID and programming of WQPT Moline IL  
I don't have any listing for this one. (Niether do I-BN)

Stephen West 26 Dougherty Blvd. G-8 Glens Mills PA 19342 N3FY0 215-358-2648

I have returned to the club after a respite. Equipment is a Radio Shack U-120, PA 4975 UHF amp, Pioneer TX-9500 II a Technics SA-222 receiver and a Technics ST-8044 with a six element RS FM antenna. The FM sets have been modified with great results. I recently bought a Tripplight power inverter (100 watts) for the car. It should be handy for doing serious TV DX from the car this summer, since I can plug in a UHF amp & LCD TV in the car. Now I use a home tuner in the car. The DC to AC power inverter cost \$75 new, it is available at electronic & RV stores, and with the 100 watt version, the only connection is a cigarette lighter plug to the lighter jack on the dash. It would be great for DXpeditions to the mountains that do not have electricity.

One great place for a DXpedition is the Cape May Lighthouse at Cape May Point, NJ. The lighthouse is about 250 ft tall and has electricity at the top! I used a pocket TV last year & received D.C. and Trenton (NJ) on UHF with just whip antenna. ( I didn't bring a amp because I didn't expect electricity up there.) The attendant was a Ham operator so he enjoyed the DXing. the conditions were bad for DXing the afternoon I-visited the lighthouse. Delaware translators on 27 & 64 were snow free at the top of the lighthouse, and were nonexistent at the base of the lighthouse. Admission is \$3.00 for adults, less for seniors & children. The Technics SA-222 has a switch near the antenna terminals to change from .2 to .05 Mhz. Although i have been out of the club, I am a lifetime DXer & I enjoy watching "Weather World" on WITF-33 as well as receiving small town stations that do not have such tight playlists as the Philly stations. Dxing is a practical application of Marshal McLuan's quote " The medium is the message". Stephen

# WESTERN TV-DX

Fred McCormack  
Box 17860  
St. Paul MN 55117-7860

Deadline: 05-07-92  
Cut-off: 02-01-92

April 1992

E skip in February was only reported on the 2nd. The opening noted by Pat Dyer was an unusual early morning event. Pat also caught an F2 opening on the following day. 500+ mile tropo was noted by Bill Eckberg and Bill Draeb on the 2nd and also on the 3rd and the 3rd of March by Bill Draeb. John Ebeling noted five consecutive evenings of South American TV-DX while vacationing in Barbados.

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

GR Guerrero

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

CST

## Equipment:

RCA 13" (1987) EMR350E color, KTV 12" 1210A b&w, Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

December 1991	January 1992	7 Es 0958 KUSD 2 SD 945
2 Es 1455 WDTN 2 OH 1075	2 Es 1759 WPBT 2 FL 1150	WBAY 2 WI 1185
1629 CKCO2 2 ON 1430	4 Es 0129 WWAY 3 NC 1235	1220 WCIA 3 IL 930
1658 WSAZ 3 WV 1125	WFMY 2 NC 1175	1833 XHAP 2 GR 875
1705 WJBK 2 MI 1240	0206 WAVE 3(IN) 955	12 F2 0832-1011 unids ch 2
1827 KTVI 2 MO 780	1030 KXMA 2 ND 1215	16 Es 1856 WESH 2 FL 1040
1828 WAVE 3(IN) 955	5 Es 1346 WJXT 4 FL 1020	February 1992
3 Es 1812 WJBK 2 MI 1240	1400 WESH 2 FL 1040	2 Es 0627 WWMT 3 MI 1160
1815 KTVI 2 MO 780	1459 WSAV 3 GA 1040	WCIA 3 IL 930
1817 WBBM 2 IL 1055	1743 KTVK 3 AZ 835	0642 WBBM 2 IL 1055
1820 WCIA 3 IL 930	6 Es 1528 WFMY 2 NC 1175	0657 WBAY 2 WI 1185
1857 WTMO 2 IN 925	1529 WWAY 3 NC 1235	0747 KGAN 2 IA 960
1900 KIMT 3 IA 1010	1558 WBTV 3 NC 1090	0759 KTVQ 3 MO 840
8 Es 1700 WSJK 2 TN 1010	1648 WPTV 5 FL 1135	0805 WBTV 2 NC 1090
	7 Es 0958 KMTV 3 NE 830	3 F2 0710-0752 unids ch 2

I was trying for some of the Quadrantid meteor shower in the wee hours on the 4th and wound up with an E skip opening instead!

The F2 of the 12th, again, was likely from northern South America. Got 15+ minutes on video tape, with some of the apparent cartoons probably recognizable to those familiar with them. A high incidence of E skip in January, considering the December levels.

A March '92 QST article deals with my FM E skip data collecting for 1980-1990. 73, Pat, WASIYX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment: See February 1992 Western TV-DX

February 1992	2 tr 0350 WLMT 30 TN 451	5 tr 0550 KHNE 29 NE 464
2 tr 0255 WAAY 31 AL 503	0400 WLOV 27 MS 558	6 tr 0143 KTVP 29 AR 463
0300 WTTD 21 AL 582	0435 WYMT 57 KY 449	0350 WOIO 19 OH 401
0315 WNAL 44 AL 551	0500 WZTV 17 TN 408	
0342 WPTY 24 TN 451	0530 WAFF 48 AL 503	

New loggings Memphis 24 and 30 were nearly snow free in quality. St. Louis 30 at the same heading was notably absent.

My "Fighting Cock" test pattern has appeared in Photo News so perhaps someone can shed some light on this mystery. Some members to the south have been very helpful, but no positive ID. I have eliminated all but a handful of channel 2s north of the equator.

In the movie "Star Wars" weren't there a race of people that bore a resemblance to chickens living in another galaxy. I have received comments that it looked like everything from a mug of foaming beer to a statue on Easter Island. To almost everyone at the convention, and myself, it looked like a rooster.

William Eckberg (continued) Basseterre, St. Kitts, British West Indies has just replied and stated that it was not them. They included some interesting information on their operation. They use color bars.

The reception briefly came in so strongly it completely wiped out WESH-2. The mystery station had the same offset as WESH-2. I can't find any mention of unusual 6 meter activity on that day in QST.

I received a reply from Port-of-Spain, Trinidad signed by the chief engineer. He stated that to his knowledge they never had a test pattern like that. Also other info.

John Ebeling, 9209 Vinent Ave S, Bloomington MN 55431

AST

Was on vacation in Barbados from February 1 to February 15. On the 6th of February, the hotel placed a Samsung color TV (model TC 9865TB) in our room for viewing local CBC-8 (Caribbean Broadcasting Corporation). This set was a 60 Hz version, even though their 110V is 50 Hz. Must use a chip (IC) which synchs in either line frequency, as set worked OK (vertical synch was stable).

Anyway, with a TV set in the room, I could do a little DXing at 13° N latitude, which is a far cry from Minnesota. Only had set's "rabbit ears" with which to DX, but when I had time to DX, results are as noted (Atlantic Standard Time):

2-10 2230-2330 chs 2-5 - aurora like E skip, active but no picture seen, but video very active. Spanish audio (at least two audios fighting it out on some channels). "Caracas" heard.  
 2-11 2230-2330 chs 2-5 - like above (no Caracas).  
 2-12 2230-2335 chs 2-5 - again like above.  
 2-13 2245-2350 chs 2-6 - again like above.  
 2-14 2230-2315 chs 2-5 - again like above.

Reception was best with antenna on an east-west path. Audio was all Spanish, two to three deep at times and at times sounded like a "heterodyne" between audios. Weird TV - so active but a "picture" seen for only a fraction of a second several times. Quite unlike any E skip I've seen over the 42 years in Minnesota DXing, aurora or otherwise.

I don't know if any aurora was present, as I could not see the northern sky; I was on the south coast of Barbados.

Not much of a report as I can not give any IDs, but it at least shows activity every evening that I was able to check. I did not notice any DX upon arising in the mornings (usually about 0800 AST).

They do have subscription (scrambled) TV in Barbados: chs 14 & 16 are Lifetime, 18 & 20 are ESPN Sports, 22 & 24 are CNN, and 26 & 28 are Turner Network TV.

(This sounds like Trans-Equatorial Scatter to me. Unfortunately, my references and old VUDs are in storage so I can't cite any sources. As I recall, in the early years of the club, Glenn Hauser reported T-E loggings while in southeast Asia. Also, Bob Cooper wrote on the subject. fm)

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

CST

Equipment: See February 1992 Western TV-DX

February 1992	2 tr 0658	WKYT 27 KY 473	19 tr 1903	WKPC 15(IN) 437
1 tr 1902	KOCR 28 IA 280	WLEX 18 KY 473		WTVQ 36 KY 473
1956	KNLC 24 MO 432	0711	WPBO 42 OH 462	KRIN 32 IA 280
	KDNL 32 MO 432		&WEVV 44(IN) 420	21 tr 1821
	WWSL 46(MO) 432	0713	WBMG 42 AL 768	WLKY 32(IN) 437
	WTJR 16 IL 365	0720	WUSI 16 IL 390	WDRB 41(IN) 437
	<i>KMIzt 17 MO</i>	0736	WDKY 56 KY 480	WTVQ 36 KY 473
	<i>KDINT 11 IA</i>	0908	WGRB 34 KY 515	22 tr 0729
	<i>KLIInt 12 IA</i>		<i>WCTEt 22 TN</i>	WKPC 15(IN) 437
	<i>WDRB 41(IN) 437</i>		<i>WYMTt 57 KY</i>	WDRB 41(IN) 437
	WDKY 56 KY 480	0927	KAWB 22 MN 365	23 tr 1940
	2 tr 0327	2035	WKHA 35 KY 553	same as 02/22
(Davenport	TBN)	2035	WKHA 35 KY 553	25 tr 2149
Rockfrd 33,45,62		16 tr 2004	WGBA 26 WI 25	<i>KHINT 36 IA</i>
0658	WAFF 48 AL 685		(Now Fox)	2153
	WDRB 41(IN) 437		WDRB 41(IN) 437	<i>KSMQt 15 MN</i>
	WCET 48 OH 400	2109	WLKY 32(IN) 437	26 tr 0535
	WTVQ 36 KY 473		( WXGZ-32 dark )	@KOIA 15 IA 345
(Snow free)			WDRB 41(IN) 437	0541
			WDRB 41(IN) 437	@KCPT 19 MO 525
			WLKY 32(IN) 437	@KSPR 33 MO 589
				KDEB 27 MO 589
				KOZK 21 MO 589

William Draeb (continued)

March 1992

26 tr 0551	@KYFC 50 MO 525	2 tr 2159	KSAX 42 MN 380	3 tr 0711	WDIO 10 MN 286
0609	<i>WTCIt 45 TN</i>		KVRR 15(MN) 500	1200	( See Note # 2 )
	<i>WDSIt 61 TN</i>	2250	KAWB 22 MN 365	1721	KVRR 15(MN) 500
	WNEO 45 OH 405	3 tr 0630	KVRR 15(MN) 500		(Better than AM)
	CBLN4 45 ON 307		KSAX 42 MN 380		KSAX 42 MN 380
0611	WWAT 53 OH 437		<i>KBYM 17 ND 665</i>	2000	CBLN 40 ON 325
	WPBO 42 OH 462	0635	( See Note # 1 )	4 tr 0410	<i>W61- 61 MI</i>
0616	WDRB 41(IN) 437	0653	KTCI 17 MN 280		(Unknown TAB)
		0653	KDSD 16 SD 500		(Grand Rapids??)

Note # 1 - Positive ID at 0730 with KBYM-17-KCMY-14 ID slide.

Note # 2 - Early AM DX still in, but KBYM-17 mostly gone.

Two new ones this time. KBYM-17 was a nice surprise and my furthest tropo to the west. I looked for KCMY-14 in early AM, but nothing there. Checked VHF for KXMB-12, but WJFW-12 dominating.

The channel 61 I suspect is from the Grand Rapids area. It only makes sense; they have TBN on channel 19, LeSea on channel 15 and now Three Angels Broadcasting Network on channel 61. I wonder what other denomination will jump in? I'm not against religion, but if all three networks would pool their resources they could serve more people with just one high power station. The way it is now is a waste of spectrum space, in my book.

(Bill, I show a construction permit for W61BX in Grand Rapids. The permittee is Good News Television Inc. fm)

## UPDATE ON THE N.J. SCANNER LAW

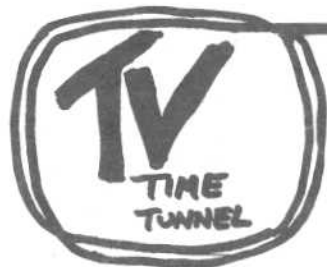
BY BILL NIENAJADLY

Around the third week in January 1992, Governor James Florio signed Senate Bill S-305 into law. This bill combined A-3044 and S-305. A-3044 was the actual repealing of NJ scanner law which several organizations like ANARC,ARRL,NESN and some WTFDA members all had a part in. Now the law states that if you are caught committing a crime, interfering with a police operation, and using a scanner for such illegal purposes, you will be charged with a Fourth degree crime. If you are a just hanging out & listening in your car driving around, you will NO LONGER GET ARRESTED FOR HAVING A SCANNER IN YOUR CAR, this applies to all law abiding citizens!

Fellow DXers, this is a very important and very intelligent step in the right direction. We as radio hobbyists, have won a important battle. New Jersey under the old law, didn't give consideration to Ham operators and now it does. In other states that still restrict scanners in vehicles I believe Ham operators are exempt or could easily get a permit as a Ham. So those in states such as Indiana, you want to legally get a scanner in your car, get a Ham license & then a permit if needed. Really there are only a few states that have scanner laws still on the books. But my state, NJ was the biggest hurdle. Thank to those who took part in the letter writing campaign!

About Jersey City NJ, as you remember JC was proposing to outlaw scanners in the privacy of ones home in that city. Word has it from a few sources is that the proposed ordinance was thrown out as overkill, invasion of privacy and violation of ones rights etc. In fact if one really interprets the new law S-305, If you use a scanner in your home for CRIMINAL purposes you can get busted where as before the cops had no law to battle the bad guys for using scanners for illicit purposes. Perhaps other states that still have 'scanner laws' can adopt New Jersey's intelligent 'S-305' and thus prosecute the criminals and leave law-abiding citizens the right to listen where ever they want to anything with out fear of arrest!

Those who wish for a copy of S-305, please send a SASE to ETVDX PO Box 2999 Clifton NJ 07015-2999.



WLSL-TV 10  
ROANOKE, VIRGINIA

A 32.5 STATION

IT'S A VISIT TO PIEDMONT PIONEER WLSL-TV IN ROANOKE, VA. IN COMMEMORATION OF 35 YEARS ON THE AIR, THE STATION PUBLISHED "THE WSL'S FAMILY ALBUM". A SAMPLING OF THE 1987 BOOKLET IS FEATURED HERE WITH NO COMMENT FROM YOUR COLUMN EDITOR...THE PHOTOS AND CLIPS TELL THE STORY QUITE NICELY! THANKS TO DAVID SHAPIRO FOR THE MATERIAL. Prepared by Tom Bryant; 849 Todd Preis Drive; Nashville, TN; 37221



American television is different from television anywhere else in the world in one special way; in America, local television is committed to serving the particular needs of its community.

To address the concerns and meet the needs of a grassroots audience means paying attention to those problems and issues that are unique to mainstream America. In that light, WSL'S-TV has

set the pace for responsible broadcasting in Southwest and Central Virginia.

WSLS-TV, Virginia's pioneer television station, was, and is, a station of firsts:

**FIRST** on the air,  
**FIRST** with live remote coverage,  
**FIRST** with videotape recording capability,

**FIRST** with full color coverage, network and local,  
**FIRST** to "feed" live network programming to a national audience, and  
**FIRST** with minicam coverage of news in the field.

Those who founded, directed and toiled in the fields of early local television did so with vision. They literally rolled up their sleeves, drew on their creativity and forged a communications concept.

For three and one-half decades WSL'S-TV has been the pathfinder. It enjoys an unparalleled past, an enviable present, and an exciting future.

On these pages, the years of service by WSL'S-TV are chronicled in abstract. Read them and share in the pride of those whose contributions have made WSL'S-TV 10 a household name.

Lee Garrett  
Director, Community  
Services  
WSLS-TV

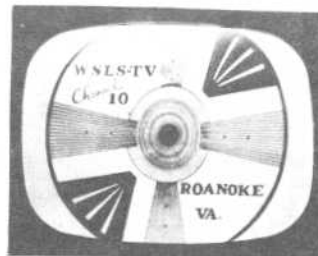


Join HAYDEN HUDDLESTON  
for  
**KLUB KWIZ**  
SATURDAYS at 7:00 PM on...  
**WSLS-TV 10**  
ROANOKE, VIRGINIA  
A 32.5 STATION



Sports Director, Ed Thomas (later a Maryland State Senator)

TIME	PROGRAM	TYPE	CLASS	SEC	SEC	SEC	SEC	SEC
5:00 P.M.	News	NEWS	10	10	10	10	10	10
5:30 P.M.	News	NEWS	10	10	10	10	10	10
6:00 P.M.	News	NEWS	10	10	10	10	10	10
6:30 P.M.	News	NEWS	10	10	10	10	10	10
7:00 P.M.	News	NEWS	10	10	10	10	10	10
7:30 P.M.	News	NEWS	10	10	10	10	10	10
8:00 P.M.	News	NEWS	10	10	10	10	10	10
8:30 P.M.	News	NEWS	10	10	10	10	10	10
9:00 P.M.	News	NEWS	10	10	10	10	10	10
9:30 P.M.	News	NEWS	10	10	10	10	10	10
10:00 P.M.	News	NEWS	10	10	10	10	10	10
10:30 P.M.	News	NEWS	10	10	10	10	10	10
11:00 P.M.	News	NEWS	10	10	10	10	10	10
11:30 P.M.	News	NEWS	10	10	10	10	10	10
12:00 A.M.	News	NEWS	10	10	10	10	10	10
12:30 A.M.	News	NEWS	10	10	10	10	10	10
1:00 A.M.	News	NEWS	10	10	10	10	10	10
1:30 A.M.	News	NEWS	10	10	10	10	10	10
2:00 A.M.	News	NEWS	10	10	10	10	10	10
2:30 A.M.	News	NEWS	10	10	10	10	10	10
3:00 A.M.	News	NEWS	10	10	10	10	10	10
3:30 A.M.	News	NEWS	10	10	10	10	10	10
4:00 A.M.	News	NEWS	10	10	10	10	10	10
4:30 A.M.	News	NEWS	10	10	10	10	10	10
5:00 A.M.	News	NEWS	10	10	10	10	10	10



When we increased our power in 1954, an appliance dealer in Burlington, North Carolina sent us a photo he had taken of his television set.







#1 News team in Virginia (1954)  
 (l to r) Joe Maffatt, News Director; Tom Wright, Anchor (Your  
 ESSO Reporter); Glen Robertson, Photographer; Jim Walsh,  
 Reporter; John Gilbert, Reporter; Jim Shell, Reporter; and Ed  
 Thomas, Sports Director.



Cameraman Glen "Whitey" Robinson and George Chernault  
 chronicle the final run of the Pocahontas. (June 1971)



**TONIGHT 10**

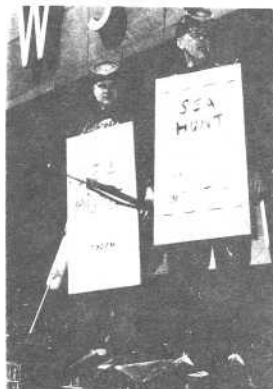
**THE SIX O'CLOCK NEWS**  
 George Chernault

**KLUB KWIZ**  
 7 PM FRIDAYS  
 WITH Hayden Huddleston

Kanawha Branch of Arthritis Foundation  
 Challenge  
 Ladies' Aux. Local Typographical Union 60

**THE ELEVEN O'CLOCK NEWS**  
 Jim Shell

WLSV-TV 10 ROANOKE



Roanoker William Dupree, a member of the U.S. Air Force  
 Singing Sergeants (and reknowned concert and operatic tenor),  
 performs on the "Today" show during its origination from Mill  
 Mountain.



NEXT MONTH: Paducah, Cape Girardeau, Harrisburg - AND - Monkey's Eyebrow

**GOOD LOOKING!**

**MIKE CHAPARRAL**  
 7:30 Change the names  
 the Chicanos who  
 they offer refuge  
 to some orphaned  
 Apache children.

**STAR TREK**  
 10:00 **NEW SHOW!** Capt.  
 Kirk and Mr. Spock try to obtain  
 an amazing military device.

**NAME OF THE GAME**  
 8:30 **NEW SHOW!** Robert  
 Stack knows the name of the  
 game is cards. Make money  
 but plays to "no holds barred."

**IN COLOR TONIGHT ON**

**10**

# ONE HOP...TWO HOP...THREE HOP...

## MULTI-HOP OR NO HOP AT ALL?

BY JOOP J. PROSÉE

In the Sept. '91 VUD page 24, Doug Allen is again taking attention to the article I wrote for the June '90 VUD about new sights upon ionospheric propagation, in which, in particular the so called two or more hop Es mode was put to a test. In my article the theory was brought up which says that extraordinary big distances with Es propagation could be declared by means of the so called, "No Hop Theory" in stead of the commonly used explanation among HAM's and (TV)DXers that is based upon the so called "Hopping Theory".

In his article it looks like Doug is thinking that the "No Hop" theory is my personal invention, because he states in his article "Joop J. Prosee's No Hop theses", once again I declare that everything in my article then, was based on what can be found in all kinds of literature about propagation. Among others, some of the propagational findings out of the first chapter of the 14th edition of the ARRL Antennabook were partly incorporated in my article. Doug is disagreeing with the "No Hop" theory, well it is his right to do so and I'm not writing this article to convince the disbelievers of the "No Hop" theory, but we have to take into consideration that the so called "Hopping Theory" is also not more than a "theory".

And, let us in the first place agree upon what we have to understand when we use the expression "Double HOP" propagation. For me and I hope everybody agrees, "Two HOP" or mostly called among TVDXers "Double HOP" propagation goes: Earth-Ionosphere-EARTH-Ionosphere-Earth. So when I hear or read: "Double HOP" I always interpret this with an earthly reflectionpoint somewhere in the middle of the path!

Now we have set this matter clear, it is time to go further with this subject and some more explanation and examples concerning the mechanism between the sometimes amazingly big distances that can be reached with apparently quite normal Es propagation.

For me, one of the most convincing facts that I found in propagational literature, putting the multi hop theory aside, was the report on experiments with so called, "round the earth signals". These are mostly Shortwave signals that travel around the earth, these signals can be received after they travelled around the earth, on the same spot where they were transmitted from. The scientists that were carrying out the measuring on the signals made calculations on what signal delay-times could be expected before the actual experiments took place. In these first calculations they took in consideration a certain amount of hops between the ionised layer and the earth's surface. When the actual experiments took place, the scientists were absolutely surprised about the times that were measured. The measured "round the earth" times were considerably lesser than was calculated at first. The conclusion they draw was: "Electromagnetic signals tend to travel around the earth without hopping", nowadays commonly known as "Supermode". In the ARRL antennabook 14th edition you can also read about this matter on page 8 of chapter 1 under: "Single and Multihop Propagation". This complete chapter is highly recommendable for VHF/UHF DXers!

In his article Doug asks for information about "1500 miles plus" Es DX. Maybe info about this matter from Europe is also welcome? In the part of midwestern Europe where I live the reception of "1500 miles plus" signals is rather common and is occurring quite many times every Es season. Especially TV and FM signals from the Middle-East come in regularly. One of the TV transmitters that can be received 6 to 10 times per Es season is the 104 kW ERP transmitter on ch E3 of the JTV from Jordan...the Suweileh transmitter near the capital Amman at a distance of 3375km (2100 miles). Less common is the reception of the two Syrian ch E3 TV transmitters at 3150km and 3479km. Other Middle-East TV guests are ARAMCO-TV with 5 kW ERP from Saudi Arabia at 4754km, the 120 kW ch E4 transmitter of Bahrain at 4778km and sometimes even the ch E2 150 kW ERP DRCTV Dubai transmitter can be received here in Holland at a distance of 5162km (3210 miles!). On the 16th of June 1991 I received a TV transmitter on ch E3 which was showing Arabic pages of teletext. At first I thought this was the "common" transmitter of Jordan (same offset) but later on, it became obvious that this was the 5kW (!) ch E3 transmitter of Abu Dhabi in the United Arab Emirates at the unbelievable distance of 5160km (3208 miles)...this reception lasted for almost two hours.

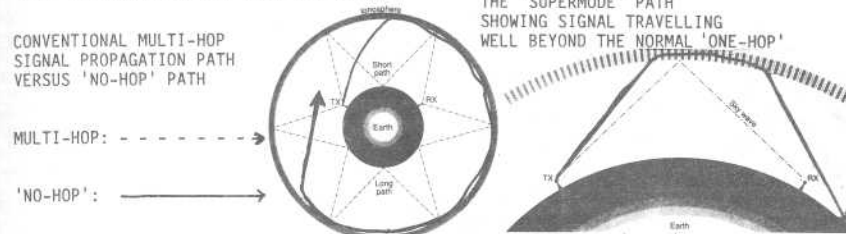
ONE HOP...TWO HOP...THREE HOP...MULTI-HOP OR NO HOP AT ALL?

One of the most remarkable periods in this field was the entire month of July 1990. Between the 30st of June and the 1st of August there was an amazingly large amount of TVDX receptions of Iranian TV transmitters in Holland. Unfortunately I was on vacation but I managed to see the last two openings toward Iran. Totally there were 15 separate days, IRIB-TV could be received in Holland with amazing strengths and even sometimes with SECAM colour on channels E2, E3 and E4 simultaneously. The distances between the Iranian TV transmitters and Holland are between 3910km and 4620km. This is so extremely remarkable because as could be remembered Iran-TV was only seen two or three times in the last 30 (!) years by Es propagation in Holland or in western Europe at all!...

If we look back on the 1990 Es-season, it appears to be absolutely the best if looking at the number of times Near- and Middle East Band-1 TV transmitters were received: 15 days Iran (3910-4620km), 12 days Jordan (3375km), 2 days Syria (3300km) and 1 day Saudi Arabia (4750km).

Even the Es-season of 1991, commonly regarded as one of the lesser ones of recent years both in the USA and Europe, did bring in 12 separate days with Jordan TV on ch E3 plus nine days with other lowband TV transmitters from the Near- and Middle-East with distances between 3200 and 5160km!

CONVENTIONAL MULTI-HOP SIGNAL PROPAGATION PATH VERSUS 'NO-HOP' PATH



What conclusions can we draw from the above information about the mentioned 1500 miles plus receptions? When we looked at photographs belonging to the 1500 miles plus receptions one thing was rather striking, the almost absence of ghosting. Only the photos of Abu Dhabi showed some moderate ghosting. In particular one photo of the Jordanian PM5534 test pattern, one of the IRIB testcard, and one of an IRIB announcer showed absolutely no ghosting, the announcer's photo is only showing some cochannel interference! When "Double Hop" propagation should be the matter with these receptions, it would be reasonable to expect much more ghosting because of the midpath earthly reflectionpoint! Also because of the surprisingly great amount of this "1500 miles plus" receptions here in Holland from the Middle-East, it is not imaginable that every time two separate Es-areas (clouds) are involved with an only constant preference for the Holland/Middle-East direction. In my point of view it is more likely that for some reason or another an enormous Es area arises between midwestern Europe and the Middle-East. In this "super Es-cloud" it is not unlikely that the phenomenon of "Supermode" is taking care of the transportation of the signals from one end to the other end of the Es-cloud.

If one reads the propagational theories, you always encounter, that saltwater paths are absolutely preferable for long distant (hop) propagation. If so, why do we receive here in Europe so many times "1500 miles plus" via a theoretically nonpreferable land path and why do we receive almost never USA and Canadian Band-1 signals, of which there are 30 in the range 3900km to 5300km, via the preferable saltwater path when an intermediate earthly reflectionpoint should be involved as should be the matter with "Double HOP" propagation?

A huge amount of questions about these propagational matters will remain open and maybe we'll never know exactly, how it is possible that sometimes such big distances are bridged with obvious normal Es-propagation. But if we don't think and talk about these matters we sure will never know what is going on!

JJP SPANBROEK/HOLLAND





MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC
106.90	TR	XHPJ	MI MONTERREY	1101	CHDFL
106.90	MS	WXXX	AL BIRMINGHAM	956	JPI-NM
106.90	AU	WSWT	IL PEDRIA	557	FAC2ND
107.10	ES	CIBM	PA RIVIERE DU LOU1884	184	DL-CD
107.10	TR	KFLZ	TX BISHOP	928	CHDFL
107.10	MS	KDUZ	MI HUTCHINSON	620	GHAZOK
107.10	AU	NDNE	0	----	NT
107.30	ES	WMBR	FL ST PETERSBURG	1707	FAC2ND
107.30	TR	KOSZ	CA GROVER CITY	2365	SRE1N1
107.30	MS	WMBR	FL ST PETERSBURG	1091	PSA-UN
107.30	AU	WEDL	OH ELYRIA	613	JEB-PH
107.50	ES	WBYO	PA BRYERTOWN	1505	GHA-TX
107.50	TR	KLVE	CA LOS ANGELES	2474	SRE1N1
107.50	MS	KMKK	TX FT WORTH	1298	SCH-UN
107.50	AU	KPPL	CO LAKELAND	699	JEB-PH
107.70	ES	WMBR	NY ALBANY	1660	PBY-TX
107.70	TR	WNET	NC GREENVILLE	839	RLA-LA
107.70	MS	KWIC	TX BEAUMONT	1192	PSA-UN
107.70	AU	KXSS	MO ST LOUIS	661	FAC2ND
107.90	ES	WFSI	MO ANNAPOLIS	1423	PBY-TX
107.90	TR	KWVE	CA SAN CLEMENTE	2499	SRE1N1
107.90	MS	KWLY	TX EDINBURG	1062	ABO-IL
107.90	AU	WHRU	IL AURORA	824	ABU-CT

PERSONAL BESTs - FM STATISTICS

dBruce Hall-Brantford ON-(12/4/91)  
 Farthest TR: CJSD-94.3 ON 565 mi.  
 Farthest Es: KODA-99.1 TX 1248 mi.  
 Closest unheard states: ME & VT  
 (Your best bet for ME=WHEA-90.1[Tr] and for VT=WHOM-94.9[Tr]-fjn)

Bill Niensjadly-Clifton NJ-(1/30/92)  
 Best MS Frequency: 99.7=7 loggings.  
 Best Es Frequency: 92.1=18 loggings.  
 Best Frequency: 92.1=23 loggings.  
 Closest unheard state: ME  
 (What about WHEA 90.1?-fjn)

Fred Nordquist-Clay NY  
 Farthest TR: Little Rock 94.1/95.7/98.5 at 1043 mi.  
 Farthest Es: KCEP-88.1 NV Las Vegas at 2129 mi.  
 Closest unheard state: NM

Need a handy reference for looking up distances between your DX location and DX targets/catches? See my FM DX report on Page 26 of the Feb 92 VUD for ordering details. The database now covers 400+ cities in 95 political units. 73 - Fred.

# PUBLISHER'S NOTES:

THANKS to Dan Cashin for turning us on to the humor of the BIZZARO comic artist Piraro. You can find collections of Piraro's comics in your local bookstore, or in many daily newspapers. Dan recently helped spread the word about WTFDA and TV/FM DXing at the recent North American Shortwave Association SWL Winterfest near Valley Forge, PA.

And...thanks also to Dr. Bruce Elving for February's cover, and to Greg Coniglio for the coverage map on the March issue.

The Publisher would also like to thank Robert Twomy and Chris Sikorski for recent help with layout, and Dave Nieman and Greg Coniglio for assistance with mailing of the VHF-UHF DIGEST.

# WINEGARD UPGRADES PRODUCT LINES

BY RICH WERTMAN

Well, technology is changing again! Winegard of Burlington, Iowa, has just released their new Chromstar 2000 Series Antennas, and Preamplifiers. They have also done away with the T.V. man line of antennas and reintroduced a Prostar 1000 line of antennas.

First off, the Prostar line, this antenna line was popular about 15-20 years ago. However, the new series is constructed much better. The lineup is like this; 8 VHF/UHF combos in sizes from 33" to 177" long. 3-UHF corner reflectors, using the famous Winegard Tetrapole Folded Dipole Feed, the sizes are 50"/79"/116" long. The VHF line consists of four models from 40" to 175" long, also a 4 element and a Twist F.M. Antenna. A note to DXers, all UHF and VHF models are UPS shippable, this is also true on F.M. models.

All antennas are 300 OHM Wing Nut Terminals. The big news, is the new Chromstar line. Winegard has changed all their antennas to be 75 OHM inputs. No more 300/75 OHM Terminal Boards. They now have an ABS Housing with one 75 OHM Down Terminal. This will eliminate a lot of the old swappable housings.

The new CA line consists of 7-V/U Models 64" to 177" long.  
 1- F.M. Beam # CA 6065 127" 10 Element  
 3- VHF Antennas 78"/ 110"/ 187" long  
 3- UHF Corner Yagi's 49"/ 74"/ 95" long

Again the most popular DXER Antennas are UPS shippable. I believe the biggest news is the new Chromstar Preamplifier Line. This line replaces all Winegard's previous models, including the AC-Line, GA and CP lines and the PA Line of Preamps. Whats left is the new amps all are mast mounted and 75 OHM in and down to the power supplys. They also have new stripline construction and better lightning protection. The new AP-4800 replaces the PA-4975 and at a much better price. The new line is now available, so if you need anything in the Winegard line, please drop me a line.

RICH WERTMAN  
 LOCKPORT, NEW YORK  
 (716) 433-0805

# STATION BREAK

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

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

WANTED - Power transformer for DX-20 or HX-11 Amateur transmitters. Will buy whole transmitter if necessary.  
 William J. Draeb - 1304 Ellis St. - Kewaunee WI 54216 (414) 388-2350

FOR SALE - 40 ft. tower, four ten foot sections, standard "tri-pole" construction. Rotor available, also. Best offer. Tape of last 90 min. of WAVA as top 40. Send enough to cover cost of blank plus postage. Full length or scoped available.  
 Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785

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