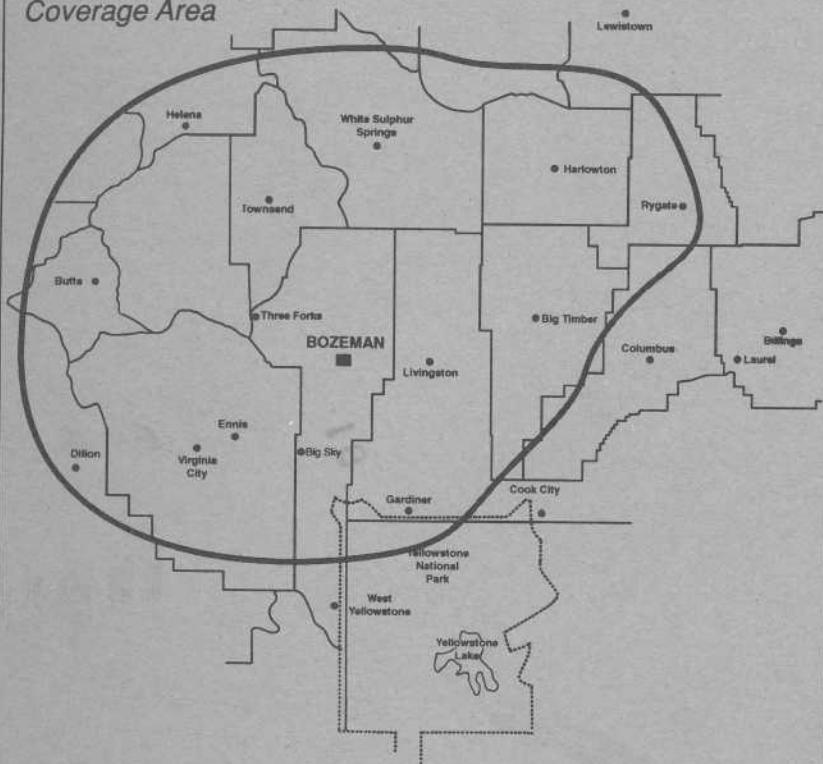


# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

FEBRUARY 1992

**KBOZ-FM**  
Bozeman, Montana  
Coverage Area



100,000 Watts  
24 Hours A Day

**93.7**  
**KBOZ-FM**  
*Always a better song*



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

OPINIONS EXPRESSED IN THIS PUBLICATION ARE THOSE OF THE INDIVIDUAL CONTRIBUTOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE PUBLISHER OR BOARD OF DIRECTORS. WE RESERVE THE RIGHT TO EDIT MATERIAL TO MEET PUBLISHING STANDARDS. UNLESS PREVIOUSLY AGREED UPON IN WRITING, ALL MATERIAL SUBMITTED FOR PUBLICATION IN THE WF-UHF DIGEST BECOMES THE PROPERTY OF W.T.F.D.A.

REPRODUCTION OF MATERIAL FROM THE WF-UHF DIGEST WITHOUT PERMISSION OF W.T.F.D.A. IS PROHIBITED. INDIVIDUALS AND OTHER ORGANIZATIONS ARE GRANTED SUCH PERMISSION PROVIDING PROPER CREDIT IS GIVEN TO THE SOURCE.



MUSCULAR SUPP



first class mail

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

## DX CHASING OF AMATEUR RADIO TV SIGNALS

by Mike Stone WB0QCD  
R2 Box 86,  
Clarence, Iowa 52216-9534

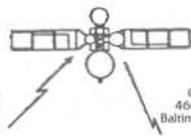
I have subscribed to the VHF/UHF DIGEST for many years now. I am really amazed at how serious all of you are about monitoring Radio and TV DX signals. I read through just about all the submitted DX REPORTS in every issue. Most of you have multi-element, high-gain beam TV antennas or dishes and nearly all use mast-mounted preamplifiers and low-loss coaxial cable of some type. If I were to tell you, that even though you are religiously "tuning-in" VHF and UHF commercial broadcast TV stations, the new LPTV stations, Satellite TVRO downlinks, etc. - that you were MISSING a whole segment of TV signals that you probably didn't know about, you'd think I was crazy, wouldn't you?

AMATEUR RADIO TV is authorized by the F.C.C. to licensed Hams with the TECHNICAL CLASS license and above. There are thousands of Amateur LPTV studios all over the country. Most likely, there are a few dozen right in your own home town that YOU can begin to MONITOR immediately! Amateur TV (ATV) is actually a standard NTSC Fast Scan TV wideband AM modulated emission complete with an FM audio subcarrier (4.5 MHz above the video carrier) sound signal just like commercial TV. It can be received on a standard TV set and recorded on a standard VCR. ATV "licensed" operators usually run 1 to 10 watt TV transmitters and boost their signals to 50 to 100 watts (some a lot more). They then feed this signal into high-gain beam antennas for some pretty respectable E.R.P.. In many larger metropolitan areas, ATV REPEATERS have been erected e-x-t-e-n-d-i-n-g the range of individual ATV transmitting facilities. These REPEATERS use omni-directional antennas so that the relayed TV signal radiates in "all" directions for everyone to see.

WHERE CAN I TUNE TO SEE THESE HAM-TV SIGNALS? ATV stations operate on UHF in the 420-440 MHz band. That is just below Channel 14 on your TV sets. Some sets and VCR tuners CAN tune down low enough from Channel 14 to pick up these signals. Most do not. There are some simple modifications that can be done to TV sets to expand coverage down into this area. If you own a Cable-TV converter box, certain channels used by the Cable-TV industry fall right on top of Amateur TV frequencies. Channels 57, 58 and 60 can pick up HAM-TV signals if you will disconnect your cable-TV coaxial cable and plug in an outside antenna. You'll probably need a preamp and maybe even a special beam antenna cut for the 70 CM HAM band that will pick up these LPTV signals even better. Hams on TV use what's called an ATV DOWNCONVERTER very similar to the cable-TV box. This "magic box" device converts the 420-440 MHz Ham band into Channel 3 or 4 to your TV set. ATV DOWNCONVERTERS have very sensitive GaAsFET preamplifiers built-in to enhance and brighten incoming images. They run around \$40 in "kit" form and about \$80-\$100 in assembled form. There are several manufacturers making these devices.

WHAT WILL YOU SEE ON ATV? - All kinds of very interesting transmissions! You think "AMERICA'S FUNNIEST VIDEOS" TV show is a lot of laughter, you should see the antics that sometimes gets transmitted on HAM-TV! There are also a lot of serious transmissions showing Hams sitting in their studio-shacks, talking back and forth to each other. Since ATV is in the standard NTSC video format, you will be able to "HEAR" their audio emissions as well! DID YOU KNOW THAT DOZENS OF HIGH-ALTITUDE HELIUM OR HYDROGEN FILLED WEATHER BALLOONS HAVE BEEN LAUNCHED WITH HAM-TV TRANSMITTERS, COMPUTERS AND CAMERAS ON-BOARD? That's right, they climb to over 100,000 feet transmitting breathtaking "live" camera images of the earth below for all to see covering several states in distance. ARE YOU AWARE THAT YOU MIGHT BE ABLE TO TUNE-IN TO LOCAL NWS COLOR RADAR DURING STORMS RIGHT IN YOUR OWN AREA? Yep, HAMS are relaying Weather Radar Images from the National Weather Service into their own ATV Repeater systems. There are also regular NETS that are held once per week where all the local ATV stations check-in with their pictures. Special ATV CLUBS have been formed that I am sure you would be welcomed to (Watch out! They will be after you to help you get your own Ham license.)

If all this sounds interesting to you, I suggest a few recommendations: Keep up to date about HAM-TV and other operating modes like SSTV, FAX, RTTY, AMTOR, Packet and Satellites with a subscription to the nations #1 HAM-TV Magazine - THE SPEC-COM Journal (\$20.00 per year) published bi-monthly: P.O. Box 1002, Dubuque, Iowa 52004. Back or Sample issues are available for \$3.50 ppd. In 1987, there was a good 8"x11" BOOK published on the subject written in easy-to-understand, non-technical language. Copies are still available for \$5.95 plus \$1.00 postage. It is called the UNITED STATES ATV SOCIETY NORTH AMERICAN ATV DIRECTORY GUIDE! It has 60 pages and 9 Chapters loaded with system descriptions, equipment recommendations, activity reports, transmitter locations, operator photos, known repeater sites and clubs and lots more interesting material. I have sent a copy to the WITFA Board of Directors for review and perhaps they can comment further on the publication. E-x-p-a-n-d your TV MONITORING capabilities by adding HAM-TV to your shack! Good viewing... Mike Stone WB0QCD (LPTV on 439.250 MHz)



## SATELLITE NEWS

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

A really small column this month - thought about putting this one off till next month.. But there are some changes. Action Pay-Per-View has switched from XPFR 11 to XPDR 6 on Spacenet 3.

International Airplane Market is on Galaxy 6 Monday Nights at 10 PM Eastern - the transponder varies. If you want to buy a Lear Jet that seats 12 - this is the ultimate home shopping channel for you.

I'm still trying to figure out who the feed was from on D2 in PAL color from Brazil showing devices to pad young ladies buns with live models and the newest in string bikinis (which look like the bather has nothing on from the back). Many beach scenes including topless bathers - time was 7 PM EaStern. Not seen since.

Portugal was testing a type of US service on Spacenet 2 and C1 one recent Sunday with full programming and US commercials interspaced between programs.

Continual musical chairs is in progress on F4 - it seems that someone is changing transponders every day.

Galaxy 5 will soon be launched. It may locate at 125 W causing T3 to move to 123 W. Many present G1 users plan to switch to this bird.

No matter what has been reported - Las Vegas TV Network has not been seen on Spacenet 4 or 3 at any time noted.

To Ron Perdue - there is still talk about the Sci-Fi Channel. Slated to be located on F4.?????????????????

That's all for this month - see you in 30 '73's

George



TBS



CNN

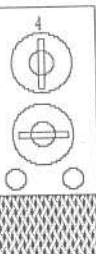


Discovery CHANNEL



# Television News

Doug Smith, Editor  
 14 Brookside Court  
 Nashville, TN 37209  
 (615) 356-6305 CTS 72777, 3143  
 W9HI @ W4HHV.TN



## APPLICATIONS TO MODIFY CONSTRUCTION PERMITS (cont'd.)

St	Ch	ERP	HAAT	Call	City
CA	29	16.2	334	KZJA	Eureka
GA	57	398	129	WATC	Atlanta
IA	36	6.09	65	KQCT	Davenport
MS	51	1494	1243	WPJ-J-TV	Jackson
(or 1243 feet?)					
NC	14	1334	209	WYDO	Greenville
OK	62	1000	233	KMNZ	Oklahoma City
OK	44	578	164	KGLB-TV	Oklmulgee

## CONSTRUCTION PERMIT MODIFICATIONS GRANTED

St	Ch	ERP	HAAT	Call	City
IN	69	10.5	167	WTBU	Indianapolis
NJ	63	1510	223	WMBC-TV	Newton
NY	48	136	129	WYDC	Corning

## APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CO	2	100	319	KWGN-TV	Denver
MA	25	1380	357	WFXT	Boston
MI	35	1320	262	WGVU-TV	Grand Rapids
MI	53	3320	981	WLAJ	Lansing
(may be 981 feet)					
PR	18	500	563	WSJU	San Juan
SC	43	1020	316	WGSE	Myrtle Beach
TX	22	5000	566	KLTJ	Galveston
WI	24	3000	313	WCGV-TV	Milwaukee

## CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
AR	51	79.4	145	KFAA	Rogers
(was 80.1kW, 140m)					
LA	27	2570	303	WLPB-TV	Baton Rouge
(was 1170kW, 287m)					
MD	13	316	302	WJZ-TV	Baltimore
MI	17	1290	334	WXMI	Grand Rapids
(was 1300kW, 329m)					
MN	29	4556	nc	KITN-TV	Minnneapolis
(was 1811kW)					
MO	3	nc	339	KTVQ	Kirksville
(was 590m)					
MS	19	1611	478	WMAH-TV	Biloxi
(was 1480kW, 476m)					
MS	29	923	598	WMPN-TV	Jackson
(was 452kW, 445m)					
MS	30	1600	187	WGBC	Meridian
(was 89.1kW, 186m)					
NY	12	168	369	WBNG-TV	Binghamton
(was 166kW, 367m)					
NY	7	nc	221	WNY-TV	Carthage
(was 219m. Big change huh?)					
MT	9	3.39	nc	KUSM	Bozeman
(was 3.35kW - again, no big change!)					

## 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	City
AR	36	353	213	Little Rock
FL	46	3675	359	Panama City Beach
LA	54	500	118	Slidell
(New Orleans suburb)				
MI	45	153	290	Vanderbilt
(not in my atlas - where is it?!)				
NC	35	1400	245	Jacksonville
NY	67	15	134	Springville
(about 40km south of Buffalo)				
TX	40	7.5	128	Rio Grande City
(about 40km west of McAllen)				

## APPLICATIONS DISMISSED FOR NEW TV STATIONS

Ch	St	City
48	AR	Jonesboro; Banner Bcstg. Corp.
2	TX	Fredericksburg; Texstar Comms. Ltd.

## CONSTRUCTION PERMITS FOR NEW STATIONS

St	Ch	ERP	HAAT	City
AK	9*	316	238	Anchorage
(Univ. of AK)				
AR	48	1062	310	Jonesboro
(AR Rural TV Co.)				
ND	19*	405	179	Ellendale
(Prairie Pub. Bcstg. Inc.)				
(about 110km SW of Fargo, on ND/SD border south of Jamestown)				
OR	26	28.5	411	Medford
(Junko K. & Bobby C. Shehan)				

## CHANGES GRANTED TO EXISTING STATIONS (cont'd.)

St	Ch	ERP	HAAT	Call	City
NC	4	nc	310	WUNC-TV	Chapel Hill
(was 302m)					
WI	20	1450	299	WHRM-TV	Wausau
(was 1437kw. There may be a tower/antenna change here too, though there's contradictory info)					

## CONSTRUCTION PERMITS CANCELLED

St	Ch	Call	City
CA	27	KWEW	Coalinga
SC	32	WCRD	Myrtle Beach
VA	24	WPAJ	Danville

## CALL LETTER CHANGES FOR EXISTING STATIONS

St	Ch	Old	New	City
FL	18	WRES	WBCC	Cocoa
NC	28	WPTF-TV	WRDC	Durham
TX	14	KLNO	KXAM-TV	Llano

## CALLS GRANTED TO NEW STATIONS

St	Ch	Call	City
CA	30	KZKI	San Bernardino; Sandino Telecasters
FL	64	WGOX	Inverness; WWFG
GA	34	WUBI	Baxley; Upchurch Bcstg.
ID	13	KIPT	Twin Falls; State Bd. of Educ.
MT	10	KHBB	Helena; KFBB Corp.
ND	19	KJRE	Ellendale; Prairie Pub. Bcstg.
OR	26	KMVU	Medford; Junko & Bobby Shehan

## NEW STATION ON THE AIR

Lake Dallas, TX: KLDZ 55z:  
 3033kW, 142m AAT/144m AG/303m ASL.  
 TL 33 00'19"N, 96 59'00"W  
 Round Grove Rd., 1km W of I-35E.  
 (I believe this is just south of Denton, about 45km NNW of the Cedar Hill tower farm) Independent.

## FORUM

Belated holiday greetings to all of you... and my apologies for the abbreviated column last month.. I think this month's will make up for it; lots of good info!

Special thanks to Bill Fahber, whose continued work on nuts-and-bolts research makes the up-to-date FCC info possible!

The license of Trinity Broadcasting's WHFT-45 in Miami has been challenged. Glendale Broadcasting Co. alleges that National Minority Television Inc., licensee of KTDZ-24 Portland, is a "front" for Trinity Broadcasting, created to permit Trinity to own more than the legal limit of 12 TV stations.

NMTV is controlled by three directors; TBN president Paul Crouch, Jane Duff, and Trinity employee Phillip Aguilar. Duff, while apparently not a TBN employee, is "totally reliant upon Trinity Broadcasting for her livelihood, and her major work experience has been as a Trinity Broadcasting employee."

These charges were apparently first brought up in March when NMTV attempted to buy bankrupt WTGI-61 Wilmington, Del. The WTGI offer was withdrawn, but the FCC decided to hear the case against NMTV anyway.

NMTV says "...neither Trinity nor any other organization has a right to control the votes of NMTV's minority directors concerning the programs, plans or policies of NMTV.", and that the FCC investigation has stopped their attempts to obtain other stations. They've asked the FCC to issue a declaratory ruling clearing them of the charges.

Well, the spectrum fee question has come up again.. in Japan.. According to the Dec. 30 issue of *Broadcasting* magazine, the Japanese government, facing a \$17 billion deficit, is proposing a fee for use of the RF spectrum, to raise revenue for operation of the PTT, their equivalent of the FCC. Apparently the semi-government NHK public broadcasting agency would pay about 70%-80% of what Japan's commercial stations would pay.

Here in the USA, proposed spectrum fees were defeated in the Senate last year. However, the Bush administration supports spectrum fees, and is expected to propose them again this summer.

It looks like the political changes in the former Soviet Union will actually affect TV DX... From the Dec. 21 *Nashville Banner*; "... Cuba has announced a series of immediate energy restrictions that will cut back everything from television viewing time to street lighting." Apparently Soviet oil exports to Cuba had declined over 20% since 1989, even before the massive changes in the USSR. Now, there's doubt that the new republics will be willing to export oil to a

country that can't afford to pay for it-- even if they can produce enough to export. Most electricity in Cuba is generated with oil-fueled generators. Of specific interest to DXers, the article mentions that the schedule of both Cuban TV channels will be cut to 5 hours weekdays, 9 Saturday, and 14 Sunday.

Bruce Elving, Esko, MN:

Bruce is also interested in methods of decoding frequency-shift-keyed Morse Code IDs of TV and FM translators. I don't know of any devices (besides expensive receivers such as the R-7000) for decoding these IDs..

Bruce also passes along an article from the Dec. 17 *Duluth News-Tribune* showing workers hoisting the new antenna on WDIO-TV's (ch. 10) new tower. This is the station whose tower collapsed in an ice storm this spring; they were using WDSE-8's tower for a temporary antenna while the new tower went up. According to the article, if no problems were encountered in installation, the new facilities went on the air as early as Dec. 19. I wish I could reprint the photo-- I'm sure most members have never seen a TV transmitting antenna up close, and this photo, with 3 workers climbing on the antenna, shows just how massive it is! (to be specific, 87 feet long and 17,000 pounds!)

Keith R. Short, Columbus, OH:

Keith provides a Columbus LPTV update:

"W08BV, which was owned by Howard Broadcasting of Oceanside, Calif., went off the air in March 1991 when the owners of W08BV decided to get out of the broadcasting business. It was a low power independent station carrying independent programs trying to compete with the big boys of full power stations. W08BV went on the air again in September 1991 with new owners. The current owners are New Life Fellowship of Churches and its studios are located at Oakley Baptist Church in Columbus. It carries mainly religious and gospel programs."

"W17AI, which had been simulcasting indie WWAT-TV53 from Chilllicothe, now no longer carries WWAT-TV. It now carries the Home Shopping Club 24 hours a day."

"W13BN carries another network of Home Shopping Club." (see Mike Reid's letter for more on the dual HSC network question..)

"Channel 24 which came on the air in December 1990 is a low power TBN affiliate. I do not know what Channel 24's call letters are. One interesting note, when TBN came on low power TV in December 1990, it was originally on channel 20 but moved to channel 24 a month later. I guess TBN on Channel 20 gave some interference for full power PBS station WOUB-TV 20 in Athens, or maybe people up here rather watch WOUB-TV on Channel 20 rather than TBN. Take your pick about this one."

"W56CA in Delaware, Ohio came on the air sometime in late 1990 or early 1991. It carries a variety of independent run programs and Much Music from Canada at nights, according to a local newspaper in Delaware carrying their schedule."

"WTJC-TV 26 from Springfield, Ohio, a full power station, switched from religious programming to carrying the Home Shopping Club sometime this year. It still carries its religious call letters but it's mostly HSC."

Keith also visited Kentucky & noted the following LPTV item in the Dec. 7 *Lexington Herald-Leader*:

"Anthony Parham, manager for WNBS Radio and WNBS-TV (Channel 46), said he took them off the air after owner Troy Cory failed to fulfill a promise to make money available for their salaries by 10 a.m. yesterday."

WNBS-TV, Murray, Ky., is apparently a LPTV-- real call unknown. Cory claims to be the grandson of Nathan B. Stubblefield, arguably one of the inventors of radio; Stubblefield's initials are the reason for the "NBS" call.

Bill Nienajadly, Clifton, NJ:

Bill sent an article from the *Newark Star Ledger* regarding WMBC-TV 63. The station's owner, Rev. Sun Young Joo of Wayne, NJ, wants to build a 767-foot tower on Bowling Green Mountain in Jefferson, NJ.

According to Joo, the station's 5,000kW transmitter would cover from the Poconos to parts of Connecticut. He intends to air local sports & community programming, and possibly CBN religious programs.

Local residents, however, aren't so pleased by the prospect of another local station. Already, the area for which the tower is proposed has strict zoning ordinances on residences; other locals fear the tower could fall onto adjacent

property (unlikely, especially since it's apparently planned for a 20-acre site), or that radiation from the antenna could cause health problems, or that aircraft at Newark Airport could collide with the tower. (I'm sure the FAA will address that complaint!)

In a somewhat more ominous statement, local electrical engineer Kim Huron asks "And I question the need for it. To make a UHF station in this day and age of cable TV doesn't make sense. Who'd watch it? Who watches UHF anyway?". (myself, for one...)

The local police, on the other hand, support the project; Rev. Joo has promised them space for their radio antennas on the WMBC-TV tower, space that should eliminate the dead spots that currently plague Jefferson police & rescue radios..

Bob Walker, Bloomfield Hills, MI:

Passes along an article on LPTV in Detroit, from the Jan. 2 *Detroit News*:

"Channel 7's antenna rises 1,072 feet above the hubbub of Southfield, pumping out a 316,000-watt signal that travels nearly to St. Clair..." "Channel 48's antenna, rising 325 feet from atop a St. Clair Shores apartment building, radiates a 1,000 watt signal that reaches to Dearborn. On a good day."

"Not everything in broadcasting is meant to be big, big, big."

W48AV owner Glenn Plummer says "If we can put a low-power station here," (pointing to Dearborn) "and here," (pointing to Southfield) "we might have something. Why not share programming? So if you're a Speedy Printing outlet in Southfield, you simply advertise on this one station. Of if you're a Speedy Printing outlet in Dearborn, you just advertise there..."

A sidebar lists the Detroit area's 5 LPTVs, with their programming and transmitter sites:

W05BN; Video Jukebox Network, from the Westin Hotel in Detroit.

W26AB; Channel America, but for sale & transmitting just a test pattern when the article was written. Transmitter in downtown Detroit.

W44AR; Licensed to a Dearborn Heights church. "When The News called to ask about the future, the church official in charge of the operation hung up on us-- twice."

W48AV; Locally-programmed religious station, heavy on gospel music programming, transmitter in St. Clair Shores.

W66BV; Trinity Broadcasting Network, transmitter on the Westin Hotel.

Fred McCormack, St. Paul, MN:

Fred sent a list of unID solutions for the LPTVs Matt Sittel listed in the December VUD. Among others, this IDs Matt's reception of WCNC-36 on channel 24 as W24AY, Lilesville, NC. (Lilesville is near Wadesboro, about 80km ESE of Charlotte)

Mike Reid, North York, ON:

Mike checks in with a wealth of information from Ontario. He also has some comments on the Home Shopping Spree/Club situation; Home Shopping Spree and Home Shopping Club/Home Shopping Network, the latter being the one on their owned & operated stations. I'm going to try to keep these two networks straight, calling the Spree "HSS" and the Club/Network "HSN". You can tell the difference by the 800-number given; 800-284-3400 is HSS; 800-284-3200 is HSN. Mike comments that WPTT-22 has been carrying HSN, but has been airing promotions for a return to regular independent programming early this year.

He also passes along info on the channel 4 dropin at Utica, NY. (this was published in VUD, 3 months before I joined HI!) Apparently WBZ-TV Boston was moved from minus to plus offset, WIVB-TV Buffalo from minus to zero, to allow the allocation of channel 4- to Utica, with a site restriction to protect WSTM-3 in Syracuse.

CFTO's channel 21 relay in Orillia, Ont. is dead. Mike says "CKCO did object, to put it mildly!"

CKWS-TV 11 Kingston has a relay on channel 26 in Brighton, halfway between Cobourg and Belleville on Lake Ontario.

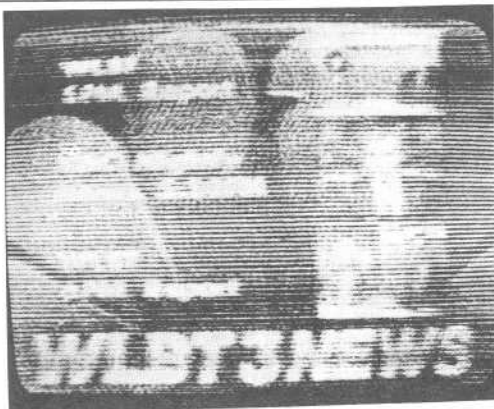
CBOT-1 Foymount, Ont. has moved from channel 28 to 59, and there's a new CBOT-6 on channel 3 at Pembroke. "These probably cover the gap caused by CHRO-TV 5 Pembroke's network change from CBC to CTV."

Global is switching to satellite feeds. (I presume this network was previously distributed by microwave, as it only served Ontario. But it's now co-owned with several independent stations in Western Canada, and may be planning on expanding nationwide)



Robert Kramer - Chicago, Illinois, equipment, see OCTOBER 1991 VHF-UHF Digest, page 4.

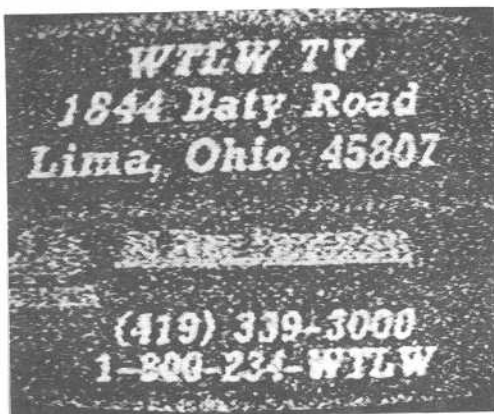
WLBT-3  
Jackson, Mississippi  
668 mile E-skip  
seen July 19, 1991  
at 1900 CDT



WRGT-45  
Dayton, Ohio  
237 mile tropo  
seen August 12, 1991  
at 0436 CDT

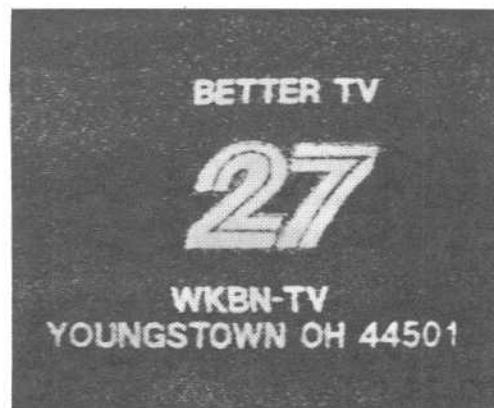


WTLW-44  
Lima, Ohio  
200 mile tropo  
seen August 24, 1991  
at 0607 CDT



more DX photos from Robert Kramer...

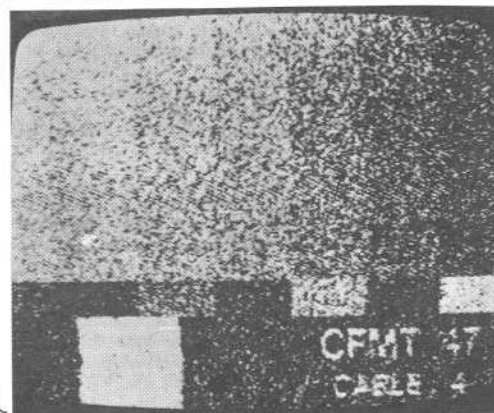
WKBN-27  
Youngstown, Ohio  
347 mile tropo  
seen August 25, 1991  
at 0226 CDT



CH27-27  
Peterborough,  
Ontario  
509 mile tropo  
seen August 25, 1991  
at 0310 CDT



CFMT-47  
Toronto, Ontario  
440 mile tropo  
seen August 25, 1991  
at 0335 CDT



to be continued....

Till next time,  
DAVE

# WESTERN TV-DX

February 1992

Fred McCormack  
Box 17860  
St. Paul MN 55117-7860  
Deadline: 03-12-92  
Cut-off: 12-01-91

1991 TV-DX finished off in good order for Midwestern DXers who lost sleep during days and nights of super tropo in late December (and into early January).

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

TA Tamaulipas

ANC All News Channel HSS Home Shopping Spree  
CHA Channel America TBN Trinity Broadcasting  
HSC Home Shopping Club VJN Video Jukebox Network

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

PST

Equipment:

Kenwood RZ-1 receiver, channel 6 crystal trap. Hitachi 5" black & white monitor, Sony Beta Hi-Fi MTS VCR. Antennas: VHF - Lindsay CC-30 22 element log-periodic with Dalco EID-3SV 28 dB mast-mount preamplifier @ 38 feet with "ARM-strong" rotor. Archer 15-578 variable signal attenuator.

October 1991

28 au 1740+ hvy CCI chs 2-4

November 1991

13 F2 1610 49.750 MHz video  
1614 49.7396 MHz video  
(See notes)

16 F2 1445 48.250 MHz video  
(See notes)

December 1991

2 Es 1959 KCBS 2 CA 1047  
2027 KTVU 2 CA 769  
CCI on channel 3

9 ms 2212 KIDK 3 ID 637  
(44 seconds!)

10 Es 1645 KUTV 2 UT 795  
1655 KTVS 3 CO 1150  
1659 KCNC 4 CO 1096

10 Es 1700 KREG 3 CO 1028  
1710 KOB 4 NM 1280  
1800 KENW 3 NM 1467  
15 Es 1100 KSNW 3 KS 1502  
22 ms 0914 KCRA 3 CA 739  
(6 seconds)

November 13th F2 opening produced Japan on 6 meters (50 MHz) and with 6 meter beam on the RZ-1 receiver brought in presumed Soviet video on same beam heading (300°). November 16th F2 video had beam pointed at Malaysia which has a 100 kW channel E2 station on this frequency. Indonesia and Marshall Islands on 6 meters during same time frame.

December 10th E skip opening had an unid on channel 3. A set with "Newcenter 5" written on the anchor's desk. Beam heading was Colorado-Utah-New Mexico-etc.

Both Geminids and Ursids brought in many, many unids on channel 3 ( my only truly clear lo-band channel).

This winter's sporadic E season was below normal. No double-hop on either TV or FM (or 6 meters). Hope everyone got a little bit of E skip during the winter. 73's, Mike VE7SKA

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

CST

Equipment:

7' Finco dish, B-T CMA-Ub preamp @ 93', .750 cable. Stacked Finco high band yagis @ 100' with RG/11 cable. Second tower, 40', with Winegard CH-2026 (lo-band) yagi. Zenith 14N22 table model 23" b&w (1971) with B-T BTU-2s UHF converter (used for UHF and also the stacked hi-band yagis) and Zenith 16J20 19" b&w (early 80's) (used with antennas on 40' tower). Panasonic 9" b&w portable.

It looks 1991 is going out on a good note DXwise. Tropo has been excellent the past few days (12/31/91 fm), especially from the east. The last time I saw Albany, New York on tropo was 30 years ago (WTEN-10 on August 18, 1961).

December 1991

2 Es 1715 WBRZ 2 LA 1002  
KATC 3 LA 1034  
KJAC 4 TX 1050

2 Es 1715 KALBt 5 LA  
WWL 4 LA 1026  
WKRG 5 AL 995  
WEAR 3(AL) 955  
2 Es 1729 WEDU 3 FL 1192  
3 Es 1715 unid channel 2+  
7 tr 2209 WPBO 42 OH 461  
WDRB 41(IN) 437

Western TV-DX

February 1992

William Draeb (continued)

7 tr 2209 WOSU 34 OH 395  
8 Es 1633 WESH 2 FL 1125  
1638 WSAV 3 GA 972  
1648 WJXT 4 FL 1030  
1730 WEDU 3 FL 1192  
9 tr 0717 WPBO 42 OH 461  
0730 WCET 48 OH 400  
WXIX 19(OH) 400  
WWAT 53 OH 437  
WCVN 54 KY 407  
WSTR 64 OH 400  
WOSU 34 OH 395  
11 tr 0545 WADL 38 MI 265  
(w/ CBS promos )  
Es 0645 WCBD 2 SC 916  
0725 unid channel 3  
0959 KLBY 4 KS 795  
KSWK 3 KS 840  
No time to watch  
-study for exams  
tr 2207 W43AV 43 WI 105  
(Waukesha LPTV)  
( See Note # 1 )  
13 tr 2050 WGGN 52 OH 325  
( 419-684-5375 )  
15 ms 0616 KWGN 2 CO 952  
(10sec-WBAY off)  
18 gw 2250 WLWK 11 WI 25  
( See Note # 2 )  
19 tr 1900 WKON 52 KY 437  
WTVQ 36 KY 473  
WBNA 21 KY 437  
WXIX 19(OH) 400  
WDRB 41(IN) 437  
1912 WYMTt 57 KY  
WSTR 64 OH 400  
W57AR 57 WI 105  
(Sayner WSAW- 7)  
2033 WCET 48 OH 400  
2151 WPBO 42 OH 461  
WNED 45 OH 405  
WPGHT 53 PA  
WWAtt 53 OH  
2224 WOSU 34 OH 395  
WKRC 12 OH 400  
20 tr 0545 Toronto UHFs  
Kitchener UHFs  
WQLN 54 PA 405  
WUTV 29 NY 445  
21 tr 1000 Central IL UHFs  
WHSL 46(MO) 432  
1010 K58BX 58 IA 280  
(Davenport TBN)  
1300 I graduate from UWGB  
1935 W69BJ 69 MI 200  
(Lansing WAQP-49)  
W59CA 59 MI 210  
(Jackson WAQP-49)  
WDRB 41(IN) 437  
WLKY 32(IN) 437  
WKMJ 68(IN) 437  
1957 WFIE 14(KY) 420  
WEHT 25(KY) 420  
2010 WTVQ 36 KY 473  
2020 WGRBt 34 KY  
2028 WUSI 16 IL 402  
2033 WCET 48 OH 400

19 tr 2151 WKON 52 KY 437  
W4BAP 48 OH 278  
(Toledo CHA)  
2055 WOSU 34 OH 395  
WEIU 51 IL 345  
WBAC 38 IN 348  
WKPC 15(IN) 437  
WKLE 46 KY 473  
2116 WCVN 54 KY 407  
WDKY 56 KY 504  
( See Note # 3 )  
22 -- 0015 unids chs 2-4 se  
24 tr 2051 WDRB 41(IN) 437  
WTVQ 36 KY 473  
25 tr 1643 WDRB 41(IN) 437  
WGRB 34 KY 499  
Cincinnati UHFs  
WCVN 54 KY 407  
WNED 45 OH 405  
26 tr 2345 KAWK 22 MN 400  
KSAX 42 MN 374  
KVRR 15(MN) 500  
27 tr 1739 KAWK 22 MN 400  
KSAX 42 MN 374  
CBCE 16 ON 270  
WNPE 16 NY 600  
WNPE 16 PA 630  
WYOU 22 PA 630  
WBRE 28 PA 630  
WKBSt 47 PA  
WCNY 24 NY 575  
Toronto 19, 25, 41, 47, 57  
Sarnia 34, 68  
London 18, 40, 53  
Erie 24, 35, 54  
1814 WNYB 49 NY 445  
( 716-875-4949 )  
(Snow free)  
Buffalo 17, 29 t  
Kitchener UHFs  
1900 WNTI 50 NY 600  
1905 WSYI 68 NY 575  
(Snow free-2114)  
WUHF 31 NY 500  
2013 KVRR 15(MN) 500  
2104 WNEQT 23 NY  
2112 WCFET 57 NY  
2131 WNPI 18 NY 615  
(Snow free)  
2155 CICA51 51 ON 374  
CIC092 55 ON 511  
2215 CIVOT 30 PQ  
2238 WNEQ 23 NY 445  
2331 WICZ 40 NY 600  
WMGC 34 NY 600  
28 tr 0445 WICU 12 PA 405  
@CBLFT13 15 ON502  
(Full color bar)  
unid channel 17  
CIC018 18 ON 325  
CIC019 19 ON 350  
WFMJ 21 OH 420  
CIC028 28 ON 345  
0512 WUTV 29 NY 445  
CBLFT14 32 ON543  
WYTV 33 OH 420  
WMCCT 34 NY  
@CBLFT15 34 ON374  
0517 @WSEE 35 PA 405

28 tr 0517 CICO38 38 ON 543  
@CBLN 40 ON 325  
@CHOT 40 PQ 582  
CIII41 41 ON 410  
CICA# 42 ON 374  
(Parry Sound)  
CBLN4 45 ON 307  
CFMT 47 ON 410  
WNYB 49 NY 445  
WNTI 50 NY 600  
(Snow free)  
CICA51 51 ON 374  
CIC053 53 ON 502  
CIC092 55 ON 511  
0524 CITY 57 ON 410  
@CBOT# 59 ON 392  
(Bala)  
CBLFT8 61 ON 345  
WETGT 66 PA  
WSYT 68 NY 575  
0532 CBLN1 56 ON 345  
CIIIT27t 27 ON  
0538 @WXXA 23 NY 697  
(Near snow free)  
0540 @WNED 17 NY 445  
(Snow free)  
0542 WUTR 20 NY 620  
CBLN5 20 ON 305  
0550 CICO74 18 ON 458  
CBLFT12 44 ON458  
@WQLN 54 PA 405  
0553 @MHIT 17 NY 697  
(Under WNED-17 )  
0600 WNPE 16 NY 600  
0700 WCFE 57 NY 692  
(Snow free)  
WOSU 34 OH 395  
0726 WSFJ 51 OH 395  
WNED 45 OH 405  
WSTR 64 OH 400  
WCNY 24 NY 575  
(Snow free)  
1212 WXXI 21 NY 500  
( 716-454-6922 )  
WCNY 24 NY 575  
1358 K58BSt 58 MN  
(Minneapolis TBN)  
1408 WUTR 20 NY 620  
1427 CIVD 30 PQ 582  
1518 @CBLFT9 53 ON 325  
(Full color bar)  
W57AR 57 WI 105  
W54AR 54 WI 107  
(Fence WPNE-38)  
1522 K58CMt 58 MN  
(Duluth TBN)  
1747 CBCE 16 ON 270  
(TV Bingo)  
WNPI 18 NY 615  
CIC019 19 ON 350  
1747 CBLFT21 23 ON353  
CHLF1 25 ON 350  
(French TVO)  
CIC093 42 ON 494  
CBLN5 20 ON 305  
CBLFT23 16 ON  
CBCQ1t 15 ON  
29 tr 0345 %CIVA1t 8 PQ  
CKNC 9 ON 350  
CKNY 10 ON 413

William Draeb (continued)

29 tr 0345	CKCO4 11 ON 415 CBLFT6 12 ON 270 CBLFT2 13 ON 350 CICA13 13 ON 415 0733 CBCE 16 ON 270 CBLN5 20 ON 307 CBLN4 45 ON 307 CICA51 51 ON 374 0923 CBLFT15 34 ON374 CICOW 42 ON 374 (Parry Sound) CIVO 30 PQ 582 ( "Radio Quebec" ) 1037 CICO24 24(PQ)582 CHOT 40 PQ 582 1054 CFJP 35 PQ 709 ( See Note # 4 ) CIVM 17 PQ 709 1113 CICO19 19 ON 350 ( See Note # 5 ) 1123 CICO93 42 ON 494 @CFG5 49 PQ 582 Ottawa/Hu11 24, 30, 40 snow free 1900 WUSI 16 IL 402 WVUT 22 IN 405 2005 W30AL 30 IL 200 (Plano CHA) WEIU 51 IL 347 2027 W68AA 68 IL 305 (Danville WAND-17) W34AY 34 IL 305 (Champaign TBN) 2039 WFIE 14(KY) 420 WEHT 25(KY) 2044 WDRB 41(IN) 437 30 tr 0445 WLKY 32(IN) 437 (CBS Nightwatch) WDRB 41(IN) 437 KNLC 24 MO 432 0459 W33AX 33 WI 134 (Madison TBN) WFIE 14(KY) 420 WEHT 25(KY) 420 @WEEK 25 IL 268 0506 @WTCT 27 IL 475 KDNL 30 MO 432 WHSL 46 MO 432 WKLE 46 KY 473 WCET 48 OH 400	30 tr 0506 WDKY 56 KY 504 WSTR 64 OH 400 0520 @KBSI 23 MO 512 WBAK 38 IN 348 0526 WTVO 36 KY 473 WKYT 27 KY 473 WXIX 19(OH) 400 0535 @WEVV 44(KY) 420 WLEX 18 KY 473 WKPC 15(IN) 437 0726 WKZT 23 KY 473 ( ID 'ed @ 1300 ) WKPD 29 KY 522 WKON 52 KY 437 WCVN 54 KY 407 WKMJ 68(IN) 437 WGRB 34 KY 499 0750 WKMA 35 KY 499 WUSI 16 IL 402 WVUT 22 IN 405 1232 WEIU 51 IL 347 1247 WKGB 53 KY 530 WKYU 24 KY WCVN 54 KY 407 K58BX 58 IA 280 W57AO 57 IL 347 (Robinson TBN) 1738 WQQBT 40 KY 1742 WBMGT 42 AL (0 kHz to WCLJ for 1/2 hour) 1747 WABMT 68 AL 1755 W34AY 34 IL 300 1832 WOAC 67 OH 395 1859 WBNX 55 OH 380 WEAO 49 OH 380 WNEO 45 OH 405 WYTV 33 OH 420 1905 WKBN 27 OH 420 WAKC 23 OH 380 WFMJ 21 OH WPGH 53 PA 480 CBLN4 45 ON 305 WPCBT 40 PA WQLN 54 PA 405 WSEE 35 PA 405 WPTT 22 PA 480 (HSC) 1923 WSFJ 51 OH 395 W58AMT 58 OH (Youngstown WNEO-45) WKBST 47 PA	30 tr 1923 CIII41 41 ON 410 CICO 28 ON 345 CBLFT8 61 ON 345 CBLN1 56 ON 345 CITY 57 ON 410 CFMT 47 ON 410 CBLN 40 ON 325 1951 W47AB 47 OH 358 (Mansfield WOSU-34) 2057 W57AR 57 WI 105 WUOC 44 OH 427 2122 CBCE 16 ON 270 31 tr 0145 W44AG 44 PA 405 (Erie TBN) @CBLFT 25 ON 410 ("OTTAWA") 0545 CBLN4 45 ON 305 0612 CFMT 47 ON 410 (Chinese) CICO51 51 ON 374 @CBLFT9 53 ON 325 @CBLFT11 55 ON388 ("OTTAWA") 0615 CITY 57 ON 410 @CBLFT8 61 ON 345 ("OTTAWA") CBLFT17T 68 ON WTVO 36 KY 473 CICA 19 ON 410 CICO18 18 ON 325 CBLN 40 ON 325 0636 WCET 48 OH 400 WKON 52 KY 437 WKGB 53 KY 530 (Very weak) WDKY 56 KY 504 0640 WKMJ 68(IN) 437 WSEE 35 PA 405 1820 WDRB 41(IN) 437 Youngstown 21, 27, 33 WJET 24 PA WSFJ 51 OH WQXT 16 PA WPGH 53 PA CBLN1t 56 ON WNEO 45 OH 400 2012 CBCE 16 ON 270 (Hockey // CBLN) 2138 WQPT 24 IL 280 (Rare) KLJB 18(IL) 280
------------	---	--	---

- Note # 1 - W43AV has a permanent ID "W43AV WAUKESHA" (two lines) in upper left corner of screen on all programming.
- Note # 2 - WLUK-11 went off the air at this time and for the next three days. They had a ghost problem they were attempting to fix.
- Note # 3 - My 40 foot tower falls over. No more outside channels 2-6 antenna until I can put it back up.
- Note # 4 - CJFP-35 - ID slide with TQS programming schedule and color bar combo.
- Note # 5 - Fog in my area becoming more like pea soup.

Both Parry Sound and McArthur's Mills were in at the same time on December 29th - the reason for me being able to differentiate between the two.

(Bill, congratulations on your graduation! fm)

Reporting Tip - Leave the left 1 inch on the front and the right 1 inch on the back blank to allow three hole punching without loss of logging data.

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment:

1966 Zenith b&w tube receiver 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 CAC11.

November 1991	22 tr 0410 WYMT 57 KY 449	31 tr 0003 WYMT 57 KY 449
15 tr 1730 W61BV 61 IL 15	0505 W27AR 27 IN 214	0220 CITY2 31 ON 442
(Sterling WQPT-24)	(Indianapolis WTHR-13)	0235 CFMT 47 ON 514
December 1991	28 tr 0340 CFMT 47 ON 514	0240 CITY 57 ON 514
21 tr 2200 W69BJ 69 MI 254	0415 CICO28 28 ON 461	0248 WFMJ 21 OH 450
(Lansing WAQP-49)	0425 CICA 19 ON 514	0250 CICA 19 ON 514
2305 WOAC 67 OH 417	0505 CITY 57 ON 534	0253 CICO28 28 ON 461
2359 WXMT 30 TN 408	0510 CIII41 41 ON 534	0315 CIII41 41 ON 534
22 tr 0103 WPGH 53 PA 491	0512 CIII27 27 ON 578	0400 WUTV 29 NY 537
0106 WBNX 55 OH 404	0535 WNED 17 NY 537	0435 CKCO 13 ON 461
0110 WYTV 33 OH 450	0106 CBLN 40 ON 419	0455 WNPB 24 WV 508
0130 CBLFT10 48 ON368	30 tr 0100 WTTO 21 AL 582	0535 CBLN4 45 ON 422
0205 W23AT 23 IL 76	0155 WNAL 44 AL 551	0550 CBLN 40 ON 419
(Mokena VJN)	0225 WZDX 54 AL 503	0555 WOIO 19 OH 401
0235 WOIO 19 OH 401	0250 WZTV 17 TN 408	0610 CBLFT9 53 ON 419
	0400 WAAY 31 AL 503	

I noted tropo to nearly 600 miles twice. The December 28th opening to Canada was very limited. Even Detroit and Toledo US were absent. I almost missed it. Ditto for the December 30th opening to Alabama.

I called the station to verify two loggings. WTHR-13 has a translator at 9th and Dutch Road on the north edge of Indianapolis on channel 27. I've never seen a logging of them in the VUD (See Sep 91 - Frank Merrill, Oct 91 - William Draeb. fm). On the 30th, I saw the WTTO call all night on channels 21 and 44. I called and was directed to the chief engineer. He stated the calls on their satellites and translators are Tuscaloosa WDBB-17, Anniston WNAL-44, and Birmingham W62BG. They must be leasing as suggested by Michael Parks in the May VUD. I only saw the WTTO ID. He was surprised I logged channel 44.

I first saw W61BV on November 15th. I can see the lights of the tower. It is south of Polo, Illinois. I think WLLT-FM and channel 61 are using the same tower and antenna. I will check further. It appears to be a UHF stick with three wire half loops pointing west. They are listed at about 19 kW.

My new UHF setup was finished in November. I was then gone for two weeks. Upon arrival home in December it seems tropo has been in every night. Either my new setup is awesome or conditions are extraordinary. Probably the latter. Many UHF stations in the 275 to 350 mile range are there even under normal conditions. To name a few: Minneapolis 29 at 294 miles, Sioux City 14 at 355 miles, Omaha 42 at 335 miles, Kansas City 41 at 323 miles, Evansville 14 at 270 miles, etc., etc. The signals are very weak and fluttery, but I can ID them. Today, Hastings 29 at 464 miles has been in all day. The 5 foot increase in height must have helped. Much credit should go to the latest (round) RDX Labs UHF preamplifier. Its strong signal handling capabilities are much improved over the Winegard PA4975. Besides less overload, there is less adjacent channel spillover. I have 42 UHF stations within 100 miles so this is important. Of my 13 new loggings, I saw 5 Canadians twice within 3 days with decent signals after years of logging. Today at midday I logged Norfolk 19 at 402 miles. Before they were buried in hash.

I'm using a deluxe Channel Master (black) motor with a Radio Shack controller. This seems to have solved a synch problem inherent with CM rotors. Both are made by Crown.

Jeff Kadet, Box 20, Macomb IL 61455 (W3CRH) (309-833-1809)

CST

Equipment:

ICOM R7000 with video adapter; Zenith L1310, N1310, Y1310 13" color sets; five 9" to 12" black & white Zeniths for E skip (all sets circa 1979-1982). Screened Channel Master 7' dish with PA-4975 preamplifier, .500 aluminum hardline up 85'. Channel Master 1110 with PA-1975 preamplifier, .500 aluminum hardline up 80'. Winegard 5 element lo-band yagi (vertically polarized) with RG-11 up 18'.

November 1991	December 1991	2 Es 1730 WPBT	2 FL 1165
22 tr 0100 W61BV 61 IL 115	2 Es 1730 WEDU 3 FL 995	MUF channel 6	
(Sterling WQPT-24)	WESH 2 FL 955	2000 XHRIO 2 TA 1080	



Jeff Kadet (continued)

30 tr 0100	CBLFT8 61 ON 550	5 tr 0016	W53AF 53 MS 413
	CBLN4 45 ON 545		(Booneville WBUY-40)
	CIII41 41 ON 640		KLAX 31 LA 623
9 tr 0200	%W/K64-- 64 ??	0026	WHLT 22 MS 645
	( See Note # 1 )		WHWC 28 WI 323
0415	W61BV 61 IL 115		KXLI 41 MN 400
	( See Note # 2 )		( See Note # 7 )
12 tr 0100	%WTRTt 26 AL		WDSI 61 TN 467
	WBMG 42 AL 527		WTTO 21 AL 527
	WCOVt 20 AL		WBMG 42 AL 527
	WDSI 61 TN 467		Huntsville 19,
	WFLI 53(GA) 492		31, 48, 54
0114	WHSG 63 GA 590	0444	CICO19 19-ON 638
	(TBN)		( See Note # 6 )
	Atlanta 36,46,69	0638	W29BE 29+MI 300
	576		(Muskegon TBN)
	W29AO 29 AL 539		
	(Anniston WBRC-6 HSS)		
	WFXLt 31 GA	January 1992	
	(Fox 31, Cable 4)	1 tr 0445	Canada 19 (Tor),
	WJSU 40 AL 539		40,42,45,47,48,
	WDKY 56 KY 375		54,57,59
	( See Note # 3 )	4 tr 0458	K33DG 33ZOK 410
	W68CG 68 TN 369		(Tulsa CHA)
	(Nashville VJN)		0500 K20-- 20 ??
			(Unknown HSS)
			(Springfield MO head)
13 tr 0615	Mpls/St. Paul in	0539	KASN 38 AR 421
	well 340		@KFAA 51 AR 350
			WMPN 29 MS 569
21 tr 1800	KQCT 36 IA 75		0542 K42BS 42 AR 358
	( See Note # 4 )		(Fayetteville TBN)
	1830 W69BJ 69 MI 342		0620 WDBD 40 MS 565
	(Lansing WAQP-49)		0658 +K62DQ 62 AR 355
	Sarnia/Windsor		(Fayetteville KFSM- 5)
	UHFs 410		Tulsa & OKC UHFs
	2124 W67AJ 67 MI 370		in all am
	(Ann Arbor WLNS- 6)		1405 WBUY 40(TN) 380
	CICO59 59 ON 466		1442 W36AM 36 TN 367
22 tr 0430	W22AE 22 OH 395		(Memphis VJN)
	( See Note # 5 )		WMAV 18 MS 429
	W41AP 41 OH 417		(Over KLJB all
	(Sandusky bulletin bd)		evening)
	W47BC 47 OH 362		1735 W68CG 68 TN 369
	(Springfield TBN)		(Nashville VJN)
	0547 WQLN 54 PA 562		1900 WMAW 14 MS 581
	CBLFT10 48 ON466		1954 W31AG 31 MS 435
	WFMJ 21 OH 527		(Clarksdale TBN)
30 tr 0100	CITY 57 ON 620		WMAE 12 MS 413
	CBLFT10 48 ON466		unid ch 64++ TBN
	CBLFT9 53 ON 511		(775.782 MHz)
	CBLN 40 ON 505		WMPN 29 MS 569
	CICO28 28 ON 550		2344 -WMAU 17 MS 627
	CICA 19 ON 610		

Note # 1 - This was on the air 24 hours a day for a few weeks, then went off. Heading to St. Louis. (It sounds like Valuevision's K64DT was testing from St. Louis. fm)

Note # 2 - W61BV Sterling noted often in early AMS with KNLC-24 and/or WCGV-24.

Note # 3 - Most amazing example of ducting ever noted here. Oddly, Chicago (175 miles northeast) was barreling at the same time with probably the strongest signals ever. I had WDKY-56 peaking at 135° at 0235. An hour later they were back at 120° where they should be! This difference may not sound like much on paper but with the screened dish's boresight accuracy the effect was very spooky.

Note # 4 - Why does WQPT-24 need a parallel station in the same city?

Note # 5 - Was surprised to see this one still on the air. Thought they had switched to channel 54 a few years ago (channel 54 not seen this AM). Has it switched back to channel 22? (I believe they have operated both channels since channel 54 was put on the air. fm)

Note # 6 - A real thrill to finally get Sudbury 19, one of my most wanted. It was battling it out with Toronto 19 which has identical programming but is offset. The CICO network time clock was one minute slow all AM!

Jeff Kadet (continued)

Note # 7 - These other directions were coming in very well also, but I concentrated on the south.

Note # 8 - A real weird one! Will have to see if the photo of their ID helps when I see it in a few days. This station behaved just like a phantom translator; i.e. all I was getting was clear video and no audio. Suspected it was from an unid translator on channel 18 broadcasting its adjacent channel one channel up, but then the video hit color which phantom video can never do! Some kind of call in talk show with a man and woman sitting next to each other. ID at 0400 did not give call letters, but rather, what looked like some kind of satellite network ID. Heading to Huntsville. (More info sent to unid column on this).

Note # 9 - Completes all Mississippi PBS stations.

Note # 10 - Was REAL glad to get photos of this and WCES. After WICS goes all night, in one day channel 20 may well be killed forever.

CORRECTION - A correction from last report; the station on channel 48 I was getting from Ohio/Michigan with Bucyrus 54 was actually CBLFT-48 which must get its programming off the air from CBET-54. DELETE as a new station.

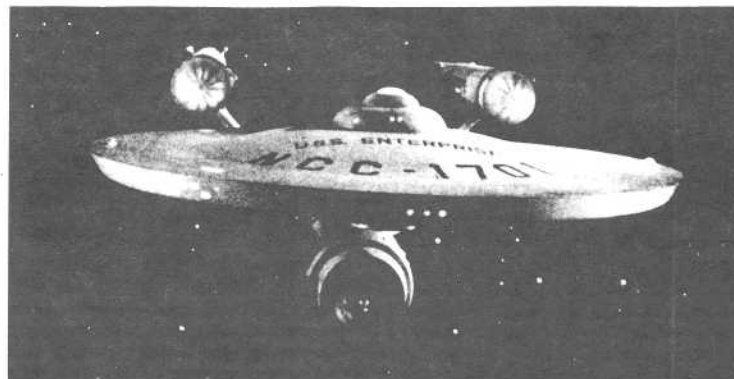
Well, we FINALLY got some DX. This fall would have been a good time to go on a long vacation. It was horrible! ("DXers and How they Cope With No DX", on the next Geraldo").

NBC's Nightside and the competition it will be spawning from both CBS and ABC is another nail in the TV DX coffin. We've already lost channels 6, 10 and 25, and WICS-20 starts broadcasting it January 6th (see note #10 above). About the only positive note is that all three have poor overnight programming track records and who needs three all night news shows plus CNN and Headline News anyway? Unfortunately, Carnac predicts NBC will be a survivor.

Let me come to the defense of the ICOM R7000's video adapter. I think the picture it produces is very adequate. Except for just the slightest bit of extra fuzziness, I'd rate its picture and color as very good. On my JVC 27" color monitor it looks righteous. The REAL problem with the R7000 is its inability to handle overload.

Station total is 1222. 73

(Jeff, the best fit for your January 4th logging of Home Shopping Spree on channel 20 on a Springfield heading is K20CT, a construction permit at Springdale, Arkansas. However, I don't have knowledge of it being operational. Regarding your January 5th logging of the All News Channel on channel 55 on a heading west of Huntsville, a check of channel 55 indicates the most likely to be W55BJ at Jasper, Alabama, a licensed facility. fm)



"CAPTAIN...SENSOR SCANS INDICATE HUNDREDS OF RF SIGNALS IN THE VHF AND UHF SPECTRUM EMANATING FROM THE CLASS 'M' PLANET IN THIS SECTOR, PRIMARILY IN THE FORM OF LOW-RESOLUTION ANALOG VIDEO...HOME SHOPPING NETWORKS...TV PREACHERS...REPEAT BROADCASTS OF OLD PROGRAMS...OBVIOUSLY A VERY PRIMITIVE, ILLOGICAL CULTURE..."





Jerry Monroe continued from the most recent page.....

.....Whew! I get more channels on UHF during a duct like this, than my local cable pay company offers!!!

## Notes:

- 1-WLR-Manchester (NH-BN) coming in very good, this was the morning of EST to EDT change, many stations late to sign on this AM (engineers over-sleep!).
- 2-Ch 28 was one of the non-Ontario signals to slip through a duct!
- 3-I think I have heard all of the CKCO repeaters now!
- 4-F1int Michigan at 783 MHz, all time UHF record at such a high frequency for me (400 miles)

This late december ducting was amazing. I did not know Ontario had so many UHF stations. By 2 AM, dec 29 all conditions were gone except for Ottawa to the due North. You guys in Ontario must have had a field day Dxing to the South. Program Note: WTUV Fox 33Rome/Utica NY has been running "Much Music" off the Canadian Anik satellite at late hours (0300-0500). Highly illegal I suppose. That's it for now.  
73's

Jeff Falconer Box 68 Clinton Ontario Canada N6M 1L6 Icom R-7000, 25 e1 log periodic at 25' with rotor

## December E-Skip 1991

2 1527 UNID-2,3 2 1558 WKRK 5 AL 956 2 1808 KMOL 4 TX 1353 8 2015 WEDU 3 FL 956  
 1533 WBRZ 2 LA 1060 1630 WDSU 6 LA 1050 1810 KALB 5 LA 1054 11 0745 KOMA 2 ND 1062  
 1537 WPBT 2 FL 1218 1631 KBTX 3 TX 1133 8 1915 WBRZ 2 LA 1060 0825 KOTA 3 SD 1082  
 1555 WWL 4 LA 1055 1707 MLF 102.3 1930 WPBT 2 FL 1218 0830 KPRY 4 SD 925

## December Tropo 1991

20 0430 S.Bend/Ft Wayne 21 2316 WAND 17 IL 454 28 1236 WDJT 58 WI 324 28 1604 WSYT 68 NY 270  
 Most strong 2325 WHSB 60 IL 334 1237 WTVB 18 WI 324 1631 WCTU 26 IL 334  
 0449 WJTC 26 OH 283 2334 KJLB 18 IA 479 1252 WGBA 26 MI 327 1828 KRIN 32 IA 531  
 0451 WTIB 63 IN 377 2343 WDJT 58 WI 324 1257 WGGZ 32 WI 327 Still in!  
 0456 W59AC IN 180 2346 WCTU 26 IL 334 1258 KRIN 32 IA 531 1847 WMTV 15 WI 404  
 // WADP-49 22 0008 WFUI 32 IL 333 1512 WHSB 60 IL 333 1936 WCOM 6 MI 170  
 0501 W59BJ MI 168 0020 WKOI 43 IN 326 1513 WJMN 63 IN 225 1939 WQOW 27 MI 196  
 // WADP-49 0031 WSTR 64 OH 347 1537 WPKS 38 MI 329 2001 CRNE 9 ON 202  
 0611 WCET 48 OH 347 0032 WCLT 48 OH 347 1602 WSNB 44 IL 333 2018 CICI 5 ON 202  
 0625 WSTR 64 OH 346 0040 WYIN 56 IN 339 1603 WFLD 32 IL 333 2022 CBLFT2-13 ON 202  
 2027 CICO19-19 ON 196

Pretty good results for December with several tropo openings and a major Es session to boot. Hope everyone gets lots of great DX in 1991, 73 Jeff

Jim Renfrew 61 Wilcox St Rochester NY 14607-3832 01d GE color TV, Radio Shack rabbit ears

## December 28 1991 Tropo

1207 CIII2 2 ON-no WGRZ! 2216 CICO 51 ON 2218 UNID 60 ?? with 2218 UNID 60 a xltr?  
 2210 CICO 24 ON-cci to CICO 55 ON WWTI-50 Watertown? 2245 CHOT 40 PQ-WICZ-cci ?  
 WCNV w/TVO prg 2217 C80T 4 ON-no WIVB! at times Stronger than 50 "C'est la vie sportif!"

CHOT is a new province, had CCI with NBC programming. AM and shortwave were so bad tonight that I decided to check out the TV. Best tropo to date on my limited equipment.

William R. Hepburn 35 Lockwood Rd Brampton ON L6Y 4T7 (EST)

Equipment: JVC HR-D630U & HR-D910U VCRs  
 w/indoor UHF dipoles & UHF 4-bay

December 1991 28 IR 0238 WXIN 59 IN 430 28 IR 0903 WTJC 26 OH 340  
 08 ES 1759 WWL 4 LA 1100 0710 WNIJ 34 IN 355 1631 WNPI 18 NY 255  
 New Orleans South Bend tp \$ Norwood  
 1800 KIBS 3 LA 1070 (WUPE-FM audio) (// WNPE 15)  
 Shreveport \$ 1829 WADP 49 MI 215  
 20 IR 0455 WKEF 22 OH 345 South Bend Saginaw  
 0459 WKOI 43 IN 375 0739 WSBT 22 IN I \$ 29 IR 0018 CBCE 16 ON 190  
 0501 WTJC 26 OH 340 0812 WOTE 30 OH 255 Little Current  
 0637 WHME 46 IN I (\$ w/SAP - ("MCTV-CBC"))  
 28 IR 0205 WKEF 22 OH 345 Central OH Radio Reading Service)  
 (audio only) 0829 WBSX 31 MI 225  
 0210 WNDU 16 IN 355 (ex-WIHI)

wtvh 5  
syracuse

Dude from Joisey PO Box 2999 Clifton NJ 07015-2999

Again, great tropo elsewhere, but not here really. Just a comment or two. Are there IF filters available for the Teknika tuner that are more selective? You can't use a 10.7 IF (180,150,110 khz etc) I know, I tried. Has anyone in the WFDPA tried phasing UHF? There are now great possibilities of DX with phasing! Lets all experiment with phasing.

## NORTHERN FM-DX

GREG CONIGLIO  
 5100 GLENWOOD DRIVE  
 WILLIAMSVILLE, NY 14221

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

FEBRUARY 1992 DEADLINE: The 5th LOG CUTOFF: 2 months from when mailed  
 It has been a surprising off-season so far. Quite a bit of skip has been seen in December and January, and not really a lot of aurora. Also there has been a good deal of tropo noted, maybe even more tropo than the regular fall tropo season! Especially big was a very intense opening that affected parts of the Northeast December 28. Skip was noted late in November and early in December, and on Dec. 8, and 22, and January 6 especially. Please send your uniDs to Matt Stitts' CCI column. Thank you. If you have DX to report, let's hear from you!.....

MIKE BUGAJ - 69 SHERMAN ROAD - ENFIELD, CONNECTICUT 06082

Equipment: Carver TX-11 and Sherwood S-7250 AM/FM receiver (both modified) with Probe 9 at 30 feet above ground level. New are underlined.

## OCTOBER 1991 DX

23 Tr  
 1900 WMXN 105.3 VA Norfolk, Mix 105.3  
 2040 WOLC 102.5, WYFI 99.7, etc  
 2050 WSRF 105.7 NC Columbia, Surf 106  
 2100 WJCI 94.9 VA Virginia Beach, Joy 94.9  
 2130 WAFL 97.7 DE Milford, WAFL after dark  
 2133 WFME 94.7 NJ Newark, right thru WMAS!  
 2133 WZBH 93.5 DE Georgetown, The Beach  
 24 Tr  
 0641 WQSR 105.7 MD Catonsville  
 0642 WWMX 106.5 MD Baltimore, Mix 106.5  
 1817 CBAF 14 102.3 NB Fredericton, FF,  
 was in for three hours!  
 1828 WYOU 97.1, WQCB 106.5, WWFX 104.7 in  
 1925 WHMX 105.7 ME Lincoln, Hot Mix 106  
 Rock with some country!!  
 2000 CBZ 101.5 NB Fredericton, Toronto  
 Symphony  
 2207 CBH 102.7 NS Sydney, wx and talk

The October 23/24 tropo was fantastic! The best I have ever seen in that direction. Hearing CBAF-14 twice in a year was great. While going over the tape of the August 12 meteor shower I also found IDs from KFMH 99.7 (the plus, KFMH) and also WWIS 99.7. Finally, going back to my uniD Spanish on 99.7 on 5/29, I received help from a fellow member who lives in Monterrey, Mexico. He listened to my tape and amazingly discovered a phone number and address which he confirmed as XHPL-99.7 in Ciudad Acuna, Mexico, by calling the station himself! This is, of course, my first Mexican station and first Mexican station and first double hopper at 1861 miles! I guess Es wasn't so dismal this summer.

JERRY MONROE - FALLS ROAD - MARCELLUS, NEW YORK 13108

Equipment: JVC 300 with two 110 khz IF filters, 10 element Radio Shack @ 35 feet. 10 element ch 2-6 @ 30 feet, bandpass filters and attenuators for phasing. In line traps tuneable to keep intermod products down, various preamps (mainly CATV type push, pull 75 ohm devices)

## DECEMBER 1991 DX

14 MS Gemeinids  
 0700 KETR 88.9 TX Commerce, "88.9 KETR"  
 0843 WIMI 99.7 MI Ironwood "We are WIMI!"  
 0900 WMC 99.7 TN Memphis, freq + calls  
 0910 meteor scatter fading out fast  
 27 Tr  
 2145 CBOD 89.3 ON Meynooth, parallel to  
 Kingston 107.5, mono, good for 130 w.  
 2150 WMHN 89.3 NY Webster, WMHR xlator  
 (Jerry, note calls and location here)  
 28 Super Tropo!  
 1000 CBCE 97.5 ON Little Current, way over  
 Watertown with CBC English News  
 1000 All Toronto-Ottawa full signal strength  
 1003 CJRQ 92.7 ON Sudbury, Q92, Rock n  
 Roll at full strength! 350 miles!

## DEC. 28 Tropo continued!

1200 CBCN 96.1 ON North Bay, CBC news,  
 I assume this, they are 100 kw and closer  
 than Timmins at 45 kw. (Jerry, you are likely  
 correct in that assumption-gc)  
 1300 CFUO 89.1 ON Ottawa, 3kw, stereo  
 with reggae, over WJZP, only 7 mi. away!  
 1305 WUGN 99.7 MI Midland, religion  
 1310 WCOM 91.7 MI Alpena, CMU network  
 2030 WUGN 99.7 MI Midland, still in good  
 2042 CFJB 95.7 ON Barrie, over 25 kw local!  
 2045 CHAY 93.1 ON Barrie, over 100 kw 93Q!  
 29 Tr

0100 Rain started locally most ducting gone!!

## JANUARY 1992 DX

1 MS  
 0918 KETR 88.9 TX Commerce, weather,  
 30 sec. burst, heard twice in a month!

JERRY'S COMMENTS ON THE NEXT PAGE

JERRY MONROE'S REPORT continues

All in all, a so-so tropo season for Fall 91, but the holiday duct info Ontario DX blowout was phenomenal. I always wanted to hear Sudbury but never could. For 12 hours here on Dec. 28, they were at full signal strength. I can only imagine what my neighbors on the other side of Lake Ontario were hearing! Wonder if anyone out there picked up the Marantz tuner being liquidated by Comb or Damark, pretty good deal. My FM DX listening post is a mess of wires these days and the time is right for a complete overhaul. Good luck to all in 1992. Go Bills!

MIKE HAWK (NOOSY) 10212 P STREET - OMAHA, NEBRASKA 68127

Equipment: Kenwood KT-815 IF mod, Archer 6 element up 30', homemade notch filter

DECEMBER 1991 DX (CDT)

- 7 Tr  
1110 KHCD 89.5 KS Salina, Radio Kansas  
1111 KHCC 90.1 KS Hutchinson, same  
1112 KANZ 91.1 KS Garden City  
1122 KYEZ 93.7 KS Salina, k  
1124 KJCK 94.5 KS Junction City, CHR  
1133 KPDI 101.3 KS Wichita, k  
1138 KRBB 97.9 KS Wichita, B98

14 MS

- 0030 KWKH 94.5 LA Shreveport "light S wind shifting NW now in Shreveport"  
0509 KLDE 94.5 TX Houston, "KLDE pursues to bring you"  
0529 KDGE 94.5 TX Gainesville, "is KDG.."  
0643 KKOR 94.5 NM Gallup, "and Core FM"  
2238 KOLX 94.5 AR Barling, "N. AR's best"  
2347 WNED 94.5 NY Buffalo, long burst with end of CLA music and mention of local event (Mike, good thing you were DXing late they were off for a few hours earlier in the evening from a windstorm, enabling me to hear KWKH on a MS burst tool-gc)

14 TrS

- 0627 KWEN 95.5 OK Tulsa, "your 50 min. Country station"

16 TrS

- 1747 KCEV 88.3 KS Wichita, rel.  
21 Tr  
0828 KMEM 96.7 MO Memphis  
0832 KWWR 95.7 MO Mexico  
0835 KIJK 95.9 IA Fairfield, AC, Kickin 96  
0842 KRLS 92.1 IA Knoxville, "The heart of Marion County is KRLS"



2104 South East Third Street  
Aledo, Illinois 61231  
Telephone 309/582-5666

I'm happy to report one more time before the year ended. Note the new tuner, which doesn't even compare with the Sangeon ATS-803 I was using. I can hear stations all day on the KT-815 that I couldn't hear at all on the ATS-803. Unfortunately, I haven't had the chance to improve the antenna system yet. I've come across a great deal on an Antennacraft FM10 and will be buying one of those soon (hopefully!) The Gemenids brought nice results with about 8 hours of monitoring bringing 6 stations and 5 new states. The 12/21 tropo was a nice surprise, with 2 new states and my farthest tropo logging yet. The KBBG logging was nice, their tower is only 85 feet HAAT. Next report will have results from the Quadrats, and hopefully some more tropo! 73

BRUCE HALL - 5 STIRTON AVENUE - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JRS 201 receiver (mod with 3 150 filters) Magnum Dymalab 205 Signal slueeth, Probe 9 fed with RG6 at 50 feet above ground level. Crown rotor. Distances are in kilometres.

DECEMBER 1991 DX

- 9 MS  
0746 CJMM 99.1 PQ Rouyn-Noranda, rs, calls in French, antenna due north 478  
14 GEMINID MS  
0357 WHTK 99.7 SC Port Royal, r, calls 1196  
0450 WYMX 99.1 MS Greenwood, r, Max 99! 1380  
0628 unID 102.7 "It's The Original 102!"  
0632 WMXJ 102.7 FL Pompano Beach, r "Listen to Magic 102.7" 1886  
0652 WEBN 102.7 OH Cincinnati, rp, calls 575

- 14 TrS  
0415 WMGG 99.7 OH Columbus, op, Magic 99.7 after Rod Stewart, Classic R&R Six Pack 423  
0540 WHCM 99.1 WV Parkersburg, k, Power Country 99, song by Alabama 460  
0939 WYSR 102.7 WV Charleston, r, Super 102 Super Nintendo at Charleston Civic Ctr. 541  
17 MS  
0812 WEOX 102.7 VT Manchester, re, EQX "Manchester 102.7", 35th State 541  
21 E-skip (HO!HO! Merry DX Mas!!)  
1631 KUAR 89.1 AR Little Rock, c, calls 1426

I taped for 8 hours from 2am to 10am during Gemenid meteor shower. Shower peaked about 5am with as many as a dozen bursts per minute. Thought I had Indiana when I heard "Perriwinkles 18 North Washington St. Muncie." Called Muncie area information but no such store. Checked Rand McNally index for other possible Muncies listed. When I got to PA, found Muncy very close to Williamsport. Phone there for number and sure enough they had a listing for Perriwinkles. Not a new logging but the search and challenge I find fun. Looks like 102.7 is another good open frequency for me, thanks to filters. I hope the list of Meteor Showers for 92 will help others to pinpoint possible times to listen for ms (It certainly will. Thanks for sending that Bruce!-gc) Charts are courtesy of January 1992 Astronomy magazine. 73dB

METEOR SHOWERS IN 1992

Summer is usually the best time for seeing meteors. Unfortunately, the best summer meteor shower, the Persids, is washed out this year by the Full Moon.

Shower	Date	Rate (#/hr)	Viewing Conditions
Quadrantid	Jan. 4	60	Good
Lyrid	Apr. 21	10	Fair
η Aquarid	May 4	35	Good
δ Aquarid	July, 28	20	Good
Persid	Aug. 12	75	Poor
Draconids	Oct. 8	?	Poor
Orionid	Oct. 21	25	Good
S. Taurid	Nov. 2	10	Fair
Leonid	Nov. 17	10	Fair
Geminid	Dec. 13	75	Fair
Ursid	Dec. 23	5	Good

A LIST OF MAJOR METEOR SHOWERS IN 1992



taken from Astronomy Magazine, January 1992 issue. Thanks to Bruce Hall for the contribution!

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606 (ELT)

Equipment: Receiver: Carver TX-11a modified with five Toko 110 khz IF filters. Antenna: Two CM Stereo Probe 9's (SP9s) (on separate masts) at 35 feet AGL, CAC-11, 75 ohm coax feedlines (cut 1/2 wavelength difference at 100 Mhz), RS variable attenuator for antenna matching/phasing, and home brew tuneable band-pass filter (rebuilt). Underlined new to log (with stereo).

AUGUST 1991 DX

- 10 MS Persids  
1143 WIKR 99.1 MI Iron River, "serving NE. Michigan, upper Michigan" 649  
12 GW  
2323 CJMJ 100.3 ON Ottawa, Magic 100  
NOVEMBER 1991

- DEC. 22 E-skip continued  
1558 WTMX 101.9 IL Skokie, ID, short skip 597  
1616 KWMG 93.5 NE Columbus, SID, r 1092  
24 MS  
1000 WLWI 92.3 AL Montgomery\*, ID burst over WRRN (prev Es) 927  
26 Tr  
0930 WCPZ 102.7 OH Sandusky\*, ID 355  
28 Super Tr. 2 stagnant Highs over US/Can board  
0134 WPHD 94.7 PA Tioga\*, classic rock KGB-FM ex 93.3 98  
1204 WFUM 91.1 MI Flint, ID/TC 381  
1258 CKLN 88.1 ON Toronto, with WFRW phased out on the same path 167  
1318 WCPZ 102.7 OH\* Sandusky, r 355  
FRED'S DX CONTINUES NEXT PAGE:

DECEMBER 1991

- 20 Tr  
1158 WBSU 89.1 NY Brockport, ID with WJFZ phase nulled. 91  
22 Es to IL/MO/IA/NE 1506-1616 MUF 108@1600  
1506 WSIE 88.7 IL Edwardsville, j, ID 781  
1542 KTWA 92.7 IA Ottumwa, ID, wx 848  
1556 KFMQ 101.9 NE Lincoln, Q102 1069

FRED NORDQUIST'S REPORT continues...

DEC 28 Tropo continue

- 1322 WUGN 99.7 MI Midland, g Family Life Radio (in for 3 hours) 408
- 1648 CJRQ 92.7 ON Sudbury, Q92FM, p 333
- 1710 CHRW 94.7 ON London, ID/p, L&C 258
- 1731 CBBL 100.5 ON London, over WVOR with CBC Stereo Network-opera 258
- 1758 CBCB 98.7 ON Owen Sound, CBC station over local WNYZ 259
- 1844 CBON17 95.1 ON North Bay, FFC o/Rocket 95 in Rochester 274
- 2031 WJPD 92.3 MI Ishpeming\*, k, sev IDs 611



The asterisked (\*) loggings were made possible by 110 khz filter mod. Totals at 1582. December DX was Christmas gift while on vacation. On the subject of phase shifters for FM co-channel elimination, the Practical Antenna Handbook by Joseph Carr (Library # 621.384) covers antenna phase cancellation techniques. Also there's a pamphlet from Microwave Filter Company that gives concepts and operating instructions for their co-channel eliminator. Does anybody have a source for cheap 8db directional couplers and instructions on how to select assemble toroidal transformers for ~ 100 Mhz 1:1 (180 degree phase shift-75 ohm in/out) balun transformers? These items seem to be key elements for phase cancellation of co-channel FM stations. I've completed and refined a BASIC computer program/ASCII database for generating great circle distance calculations and printing (on 10 pages) the distances between a DXer's location and cities in North & Central America (and Caribbean). It includes distances (in miles) for over 4800 cities with TV/FM stations in 79 political units, including all (except unique translator) locations listed in the WTFDA North American TV Database and FM Atlas (Part I Listing) as well as Central American & Caribbean countries listed in WRTVH. A \$2.00 donation to cover costs of mailing and printing will get you your personalized listing. Also include with your request the Great Circle Coordinates of your DX location (e.g. 43 deg 8 min N & long 76 deg 8 min W).

73 - Fred.

BOB SMOLAREK - 156 OLDWICK ROAD - WHITEHOUSE STATION, NJ 08889  
 DX FROM MT. POCONO, PA - Equipment: GE Superradio (modified with 110 filter)

DECEMBER 1991 DX

- 27 Tr
- 2330 WFGY 98.1 PA Altoona, Froggy 99, k
- 2332 WRKK 97.7 PA Jersey Shore, r
- 2334 WKPO 105.3 NY Hornell, r
- 2336 WYSN 101.7 PA Central City, m
- 2340 WQXT 101.7 NY Owego, o
- 2343 WALY 103.9 PA Bellwood, Y-104
- 2347 WDBA 107.3 PA DuBois, g, strong!
- 2350 WMJQ 102.5 NY Buffalo, tough thru WRFY, Hi Greg!
- 2352 WYXL 97.3 NY Ithaca

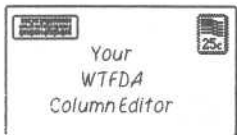
Q102

DECEMBER 28 Tr

- 0001 WOWQ102.1 PA DuBois
- 0004 WIYQ 99.1 PA Ebensburg, o
- 0010 WGBE 107.9 PA Williamsport, relaying an AM talk station.
- 1000 WZKZ 106.1 NY Corning
- 1001 WHCN 105.9 CT Hartford, rp
- 1004 WAVR 102.3 NY Waverly
- 1312 WUNS 96.3 PA Lewisburg
- 1316 WLAK 103.5 PA Huntingdon
- 2243 WRKE 101.7 DE Ocean View, rs
- 2245 WQHQ 104.7 MD Ocean City, r
- 2250 WRDR 104.9 NJ Egg Hbr City, o/WWDL!
- 2256 WAAI 100.9 MD Hurlock, k
- 2319 WAYV 95.1 NJ Atlantic City, r
- 2325 WAFL 97.7 DE Milford

Bob

While visiting a friend here in Northeast PA I was treated to 2 days of great trop, never heard Western PA up here as good as this weekend. This was all done on Superadio with no outdoor antenna. Bill Nienajadly put a 110 filter in it and it works fabulous! Bill told me DX was not as good in NJ as here. 73s



SEND IN  
 A  
 REPORT  
 TODAY!!

wnib/wniz

1140 WEST ERIE STREET  
 CHICAGO, ILLINOIS 60622

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

Equipment: Carver TX-11 tuner IF filter modified, CM Stereo Probe 9 at 25' on crankup tower. Alliance HD-73 rotor and RG-11 coax. New loggings are underlined.

DECEMBER 1991 DX

- 5 troposcatter
- 1444 WODJ 107.3 MI Greenville, call, o\$ 335
- 11 E-skip
- 0932 KBHE 89.3 SD Rapid City, area NX, \$ 1235

- 22 E-skip
- 1457 KAAK 95.5 MO Bethany, "Regional Radio Can", Kansas City Chiefs football 821
- 28 tropo
- 1845 WPKK 106.7 MI Gaylord, "The Peak", r\$ 341

We had a big TV tropo opening on Dec. 28 but not much on the FM.

DAVE NIEMAN-HO STA GEH RD-ROCK CITY NY

Equipment: Technics ST-8080 tuner IF filter modified with two 110khz & two 180khz IF filters. Antennacraft FM-10 at 10' and RG-6 coax. Armstrong rotor. All new to Rock City log.

DECEMBER 1991 DX

- 28 tropo
- 1016 WAIR 92.5 MI Atlanta, "u-AIR", o\$ 366
- 1104 CBO 91.5 ON Ottawa, CBC nx, t mono 272
- 1116 CFMO 93.9 ON Ottawa, call. b\$ 272
- 1137 CFPL 95.9 ON London, "FM-96", r\$ 156

- 1229 CBON21104.9 ON Gogama, call, t FF 431
- 1233 CJQM 104.3 ON Sault Ste. Marie, "Q Country-104", k\$ 423
- 1300 WBRX 94.7 PA Patton, ID/WBRX1 Altoona+ "Lite 95-FM", mr\$, 98
- 1309 WRJS 98.5 PA Oil City, call, k\$ 82

Lot of stations in this day. Wish I had a warm place to DX from: maybe next year. Dave

Bill Nienajadly PO Box 2999 Clifton NJ 07015-2999 Dude from Joisey

MUF Breakdown for December 1991 as of 12/19/91 - No ID's on FM or TV noted - but still, 4 ES days!

12/2 1800 MUF possibly FM, 12/8 1700 MUF 4, 12/9 1700 MUF 2, gone by 1745, 12/19 2245 MUF 3  
 Noted Max bursts per minute via MS-16 BPM on morning of 12/14

12/8 MS 0823 99.7 WMSR tent "Manchester National Bank" not enough to count as Manchester TN.  
 12/13 MS 0731 99.7 Which one? "Power 99" Atlanta GA or Jackson MS? (both prior loggings.)  
 12/14 MS 0725 99.7 WRFX tent NC Kannapolis "...Charlotte Observer...investigating..."

MS 0825 99.7 UNID "....Ask Hi-Vee to put together one of their delicious food baskets ...delivery available. And lots of different baskets to choose from. Happy Holidays from Hi-Vee food store...." (10 sec burst)

12/14 MS 1000 99.7 WWIS WI Black River Falls (male voice) "...coming up on AM 1060, join us for morning meditations and on FM 99 Seven it's more good music. This is WWIS, Black River Falls....(female voice)...The music you like best...." (13 second burst)

WWIS Radio

FM 99.7 mhz • AM 1260 khz

- 12/12 TR 1828 WTH 96.1 NJ Margate City
- 1835 WRKE 101.7 DE Ocean View o/WNNN \*\*\*\*
- 1839 WKHI 99.9 MD Salisbury (rare here)
- 1841 WQHQ 104.7 MD Salisbury
- 1844 WDNO 95.3 DE Laurel (good strength)
- 1849 WWTR 95.9 DE Betany Beach \*\*\*\*
- 1928 WAAI 100.9 MD Hurlock (in good)

- 12/12 TR 2234 WBNJ 105.5 NJ Cape May
- 2236 WSLT 106.3 NJ Ocean City
- OVER WHTG same bearing! \*\*\*\*
- 2245 WZXL 100.7 NJ Wildwood
- 2322 WIBF 103.9 PA Jenkintown
- YES!!! Finally \*\*\*\*
- 2330 WHOM 94.9 NH Mt Washington
- +BOSTON FM's also Norfolk VA

Any ideas who has Hi-Vee food stores in the area? Help! My best MS logging ever was WWIS with a perfect ID! Wow. Dec was a pretty OK month for DX with a surprise trop opening thrown in and enabling me to log long wanted WIBF, WSLT, WWTR and others.

\*\*\*\* Denotes phasing with rabbit ears and 10 db amp, and outside 6 element FM ant w/10db amp & rotor. Phasing DOES work very nicely! Goodxinging!!!

STATION NEWS: BMWV 106.5 in Connecticut is on the air with an adult contemporary format. WDNO 95.3 in Laurel, Maryland is also on the air. Thanks Bill Nienajadly for that information. KAAK in Bethany, MO is on 95.5, ex: 95.9. Back in Pennsylvania, WBRX 94.7 Patton-Altoona (and their booster WBRX1 Altoona) are on again with mr\$, "Lite 95 FM". WPHD Tioga, PA is now on 94.7, ex: 93.3, relaying album WKGB-FM. Thanks Dave Nieman. In Eastern NY, WRAV 94.5 Ravena is on with a/c and "Mix 94" slogan. Thanks Mike Bugaj and Bill Nienajadly. In the Midwest, KKVU 105.9 Omaha changed to KKCD, "CD 105.9" and an oldies format. 104.1 Yankton, SD becomes WNAX-FM and also oldies. In O'Neill, Neb., WBRX 102.9 is a variety format. Mike Hawk heard Garth Brooks, Michael Jackson, and Kermit the Frog all in a row!! Thanks for updating us Mike! WQTX 105.1 Roanoke, IN is silent, and WIOK in Palmouth, KY is now on 107.5, "OK 107.5", g\$. WLZZ 104.5 Montpelier-Bryan, Ohio is on with country, "Country 104.5" and "Wheels". Thanks Ralph Strobel. Jacksonville's 107.3 "The Rooster" is now WROO. In Rochester, 95.1 is now WRQI, "Rocket 95" and a lite album rock format, like WBOS in Boston. They have referred to their target city as "Rocketchester". KBUZ 99.1 El Dorado, Ks. is now simulcasting Christian KTCM.











# BACKSCATTER REVISITED

BY JOOP J. PROSÉE

Let me first say, that in my opinion Backscatter is indeed a heavily unknown and widely misunderstood propagation mode as Tim McVey puts it in his article in the June 1991 VUD. But is Backscatter indeed so mysterious or weird as assumed by Tim? What does the word 'Backscatter' literally mean in our DX-hobby? If you read the VUD Backscatter article it becomes clear that the writer assumes that the actual Es-cloud involved has nothing to do with the phenomenon Backscatter at all and that is an assumption which seems to be wrong! If we look at the very clear map accompanying the article we can easily understand that the involved Es-cloud must be situated somewhere in Southern South-Carolina and also spreading over the central Eastern part of Georgia. It is also clear to see that the Backscatter area is situated between the position of this Es-cloud and the target area in North Virginia/Maryland. Generally it is assumed, concerned upon the article mentioned situation, that in certain occasions the received signal from the Backscatter area is first travelling to the South than reflects against the flank of the already above mentioned Es-cloud and goes "BACK" to the mentioned Backscatter area where it started but on a higher level with as a result that this North-Carolina signal can be received via Ionospheric (Backscatter) propagation in the rather near region of Northern Virginia/Maryland. In reality the received signal has travelled a much longer distance than one should assume at first when not knowing anything about the existence of the Backscatter phenomenon.

If you are aware of what the word "Backscatter" really means, then the bigger part of what actually happens is revealed. If you consider the phenomenon as described above, Tim's question why always almost only one station involved with Backscatter can be answered too. Since we know that Es areas are shaped like clouds it is likely not wrong to assume that Backscatter only can occur when the Es-cloud, the transmitter and the receiver's QTH are lying on one straight line. And this is required because of the fact that the signal is believed to be reflected against a vertically ionised circular wall. Another Backscatter transmitter that is situated on a distance of let's say: 160km(100 miles) from the first transmitter is reaching the same involved Es-cloud under a different angle with the same effect, the signal reflects BACK to the direction where it came from. If one could see the Backscatter pattern from above it would look like the spokes in a wheel!

I myself consider the physics of the Backscatter phenomenon more or less equal to that of Auroral propagation in which it is also necessary that transmitter, receiver, and Ionised area are on the same straight line. Which is within Aurora predominantly a North/South-Path. With as striking similarity, that Aurora-DX is ALWAYS a matter of Backscatter propagation!

I'd like to conclude this subject with some Backscatter examples from our European continent, which seem to be much similar to the ones Tim is giving in the June '91 VUD.

Our European Backscatter TVDX possibilities are in my opinion not so numerous as in the USA. This is the matter because the North American continent is much bigger than ours and the number of Band-1 (Low Band VHF) transmitters is also much bigger. For instance, the nearest E2 transmitter is 320km(200mi) from my QTH, the nearest E3 transmitter is 240 km(150mi) and except for the regional Dutch powerhouse on E4 at 80 km(50mi) the next E4 transmitter is at a safe 380 km(235 mi). But in spite of this lesser Band-1 coverage there is at least one path that can be considered as a usable Backscatter trail. For us here in Holland it is the direction towards southern Italy with, lucky for us, three Band-1 transmitters on a 600 km(400mi) range in the same direction as the Italian Band-1 ch A transmitters on a distance of 1530 km and 1800 km (1020 & 1200 miles). The Backscatter transmitters are situated in southern Germany on ch E2 and in northern Switzerland on ch E2 & E3. Everytime when one of these TV transmitters is received almost always for rather short times (several minutes to a maximal half an hour!) The Italian transmitters also show up with mostly an occurrence AFTER the Swiss or German transmitter has gone. This is opposite to what Tim experienced with the USA Backscatter, in my part of the world first Backscatter seems to appear, then the normal 1000 mile range Es-DX comes up. Tim has witnessed the opposite as can be read in his VUD Backscatter article.

## BACKSCATTER REVISITED

Another Backscatter phenomenon that is believed to exist is the so called: "TEP Backscattermode." With this mode a signal is believed to reflect against the flanks of the always present, extra thick, ionised region right above the equator. A rather convincing example of this theory, is the not so very rare reception in Holland of the Nigerian high powered ch E3 transmitter of Sokoto in the northern part of the country on a distance of 4410 km(2740mi) exactly lying on the same meridian as my QTH illustrating what is said about the condition of lying on a straight line of transmitter, receiver, and ionised area!

I conclude this article with the most remarkable fact that I witnessed in the field of the Backscatter phenomenon. This happened on the 27th of July 1988 when I received a USSR transmitter signing off on ch R1 when suddenly the local powerhouse on ch E4 faded away and the French speaking Belgian RTBF1 programme appeared with a classical concert also on ch E4. My antenna was pointed to the East and I turned to the South where the Belgian transmitter is situated at 280 km(175mi) with an ERP of only 10 Watts(!). But when I turned to the South, the signal went completely into the snow! Going back to the eastern direction the signal came back strong again, so there cannot be another conclusion than, that this must have been a so called "Sidescatter" reception. This indeed "weird" reception lasted only for 3 minutes from 2218 till 2221 local time.

Well, I hope that the intention I have with this article will succeed; to pull the Es Backscatter DX-mode out of the mysterious world where it was placed on the June 1991 VUD. At the same time I must admit that just like the other ionospheric DX-modes we encounter in the DX-hobby, much about how everything precisely works is still unknown up to now, which is also the case with the Backscatter phenomenon.



## SOLAR ACTIVITY AND SPORADIC-E

BY JOOP J. PROSÉE

In the August '91 VUD down on page 43 I read a report from Ed Frye in which solar activity and Es were linked together in a positive(?) way. Reading this article, I got the impression that sunspots, solar-flares and the result of them, such as magnetic storms were considered as a positive influence on Sporadic-E propagation in the TV Low Band, this according to Ed's view on this matter.

Maybe it is disappointing for some people, but up to this moment there have been found absolutely no connections between any kind of solar activity and the phenomenon of normal midlatitude Sporadic-E propagation! Although among HAM's and TVDXers there is more or less a feeling, that this kind of Es is only influenced somewhat negatively when solar activity is high. But this has never been confirmed by means of scientific research. Looking back at the last three Es-seasons here in western Europe when solar activity was considerably high I can't say that Es was noticeably worse or better compared to what can be considered as normal.

Also with F2 TVDX, opposite to what is thought generally, the influence of solarflares (a.k.a. protuberances) sending enormous quantities of loaded particles (protons) into space, can be disastrous for the Earth's quiet magnetic field and the ionospheric layers, negatively influencing F2 conditions and lowering the F2-MUF. It is a wellknown fact that the E and F layers can be destroyed completely by severe magnetic storms and it can last several days before these ionised layers have been built up again and are totally recovered! Normally, Aurora conditions indicate that the magnetic field of the Earth is disturbed and normal F2 receptions in the 30-50 MHz spectrum become very unlikely and sometimes even impossible! TVDXers never watched sudden outbreaks of good Es conditions that could be related with the appearance of solar flares and magnetic storms here on good old Earth!

The only positive influence of magnetic storms that is known on Es is the appearance of the so called "Aurora related Sporadic E." An Es-like propagation mode sometimes occurring as a side effect of normal Aurora. But I think that Ed was not referring to this particular form of Es propagation in his report!

What is needed for good F2 propagation, is an overall higher solar activity which is normally the case during the peak-period of the solar cycle, causing a considerably higher grade of ionisation of the E and F layers and also preferably needed at the same time is a quiet Earth's magnetic field. Together these two conditions can cause MUF's so high that F2 TVDX becomes possible.

JJP SPANBROEK HOLLAND

## STATION BREAK

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

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

FOR SALE - VUD's for sale - March 1977 - February 1986 complete except for March and May 1982. Excellent condition. Asking \$10 including shipping.  
Richard Eckman - 9 Still Harbor Ct. - Hampton VA 23669

WANTED - I buy old WRTH editions (except '89 and '91). I pay only in IRC's. 15 IRC's per each one.  
Winter Denyite Monges - P.O. Box 1.116 - Barquisimeto 3001-A - Lara - VENEZUELA

WANTED - I am looking for copies of original uncut vintage TV shows on VHS from 1948-1955. I am also looking for mint copies of radio and TV trade magazines and yearbooks from 1948-1956 in mint condition. I will consider all offers.  
David Shapiro - 484 Hammond Dr - Griffin GA 30223-4024 (404) 228-6491

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.

## SPEEDX

SPEEDX is proud to introduce our new publication, **CARL HUFFAKER'S LATIN NOTEBOOKS**, a collection of writings originally published in the SPEEDX bulletin from 1986 to the present and now professionally edited and typeset for book publication. We hope that you can give it a mention in your journal.

Carl Huffaker has spent most of his life traveling around Latin America, and for several years has lived in a small village some two hours from Mexico City. A veteran DXer who built most of his own equipment, he brings an astute and searching consciousness of what radio means to the people of the region and the ways modern communications have forever altered its social landscape.

It's available from:

The SPEEDX Supermarket  
5008 Stonchenge Lane  
Norman, OK 73071

The price is US\$7.95 plus shipping: \$2.25 in North America, \$2.50 surface mail worldwide, \$4.50 airmail to South and Central America, and \$5.50 airmail elsewhere.

There can never be enough good writing about shortwave radio. In our opinion, **CARL HUFFAKER'S LATIN NOTEBOOKS** is not only great writing, but it captures like few other books the spirit of what radio is all about.

Now Ready—



ISBN: 0-917170-10-5  
Library of Congress No.: 91-077510

**FM ATLAS—14th Ed.**  
By Bruce F. Elving, Ph.D.

An up-to-date reference to the FM stations of North America—at no increase in price over the previous edition! Now with 94 pages of maps to help pinpoint some 7,250 FM stations—500 more than shown in the last book. The Station Directories, arranged by geography and frequency, give program formats, stereo and technical data, “nonIDs,” multi-city IDs, and stations known to have an SCS subcar-

rier at 57, 67 or 92 kHz. FM translators and boosters occupy a special nine-page section (as well as being shown on the maps). Covers the U. S., Canada and Mexico.

Revised editorial material describes Local Marketing Agreements in FM programming and sales, Digital Audio Broadcasting, improving your FM reception and “SCS: From Muzak to Pornography,” plus a discussion of the new FM translator rules’ loopholes, Minnesota Public Radio buying WLOL Minneapolis for \$12 million and the RADAR report on FM listening.

Order this 192-page FM station reference today! \$10.95 per copy (plus \$1.05 shipping). Two or more copies \$9.50 each (plus \$1.50 per order shipping). Order from FM Atlas, Box 336, Esko MN 55733-0336, U.S.A. Make checks payable to “FM Atlas.” [Canadians please remit by postal money order.]

Enclosed is \$\_\_\_\_\_ for \_\_\_\_\_ copies of the 14th edition *FM Atlas*. This total includes money for shipping.