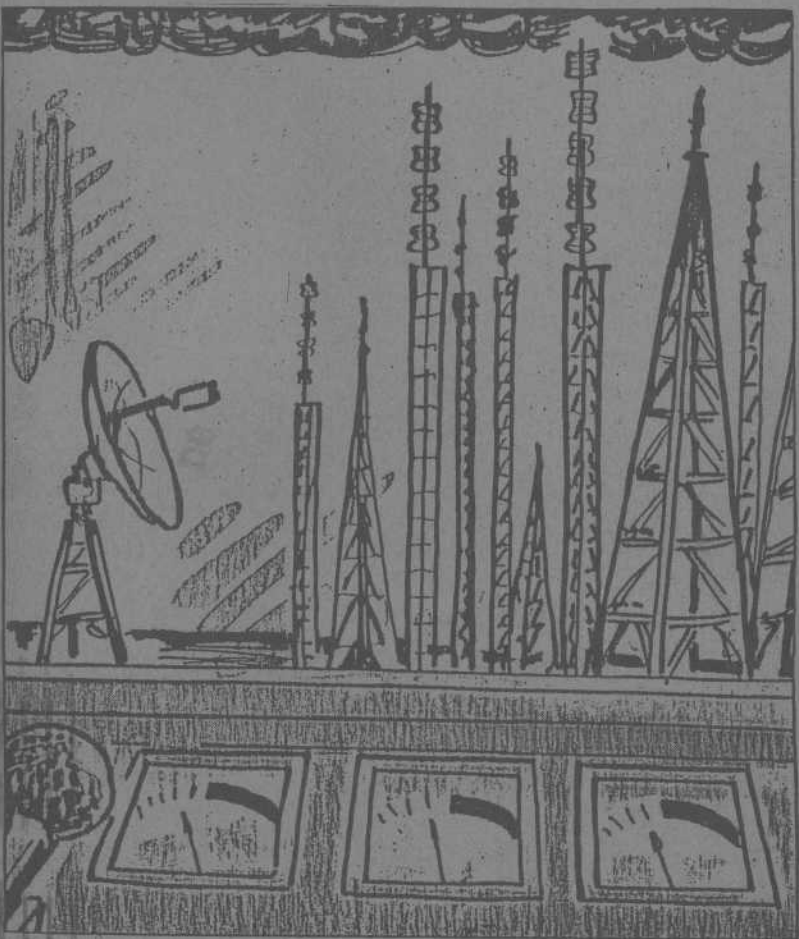


Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

NOVEMBER 1990



WORLDWIDE TV-FM DX ASSOCIATION
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11/91
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GLASTONBURY CT 06033

ANNUAL DUES - UNITED STATES: \$17

CANADA: \$38

OUTSIDE NORTH AMERICA: \$27

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From The STAFF

TROPO CONTINUES TO DOMINATE TV/FM DX...Quite a few enthusiasts are regarding the 1990 Fall tropo season to be among the most interesting ones of recent years. The openings have been numerous from East Coast to Midwestern locations, and unusual paths have opened up frequently this year. There was something of a revival in Atlantic hurricane activity in October, and the effects were seen on the VHF and UHF bands. As often happens, storm-displaced stable moist air masses caused the best activity, but there were also quite a few conventional tropo openings. With any luck, above average conditions may continue before the colder weather sets in. Most of the "good stuff" now appears to be over--but don't forget about the possibility of sudden "super" tropo openings this month. November has a well-deserved reputation for just those kind of surprises!

BEST FM DX REFERENCE IS UPDATED...FM DX enthusiasts should not be without the latest edition of Bruce Elving's FM ATLAS, just off the presses. There's nothing to compare to this fantastic reference; no DX club, no broadcasting industry publisher, or trade group, puts out anything like it. What's made the ATLAS so valuable to DXers (in addition to Elving's reputation for the most accurate station data in print) is the maps, which allow you to pinpoint station locations during DX openings. Our advice: order the latest edition (see FCC FM NEWS) and ask for Elving's latest catalog with it--it's full of great stuff for the DXer, including selectivity and subcarrier (SCA) modification services.

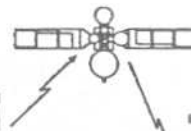
WTFDA CONVENTION HOST STILL NEEDED FOR '91...As of press time, there were no serious bids for next year's WTFDA convention. Without a volunteer for next year, perhaps it's time to start thinking of '92 instead? Seriously though, it never fails to amaze us when we hear from members who claim that one convention site or another isn't "convenient" in location for them to attend, and then not hear from them when the opportunity to host the event arises. In recent years, we have often only heard from a single volunteer to host the WTFDA convention. Without such great people, there would not have been conventions to attend! In years past, we often had two or three prospective hosts, which would result in a membership vote deciding the site. If you'd like to host Convention '91, please contact us!

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Cover illustration from material submitted by Tom Bryant.

(FROM THE STAFF continues on PAGE 47...)



SATELLITE NEWS

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

I hope the resumes of the past 2 issues have been of some interest to you. But nothing remains constant in the world of satellites - so here comes the addenda and errata.

Satcom 1 - Aurora - Feeds to US should be on 21 not 20

Satcom 1 - 5 - add Cal-Span - California State Legislature' 22 - Prime Sports Northwest (add)

Satcom 3 - Bravo and RAI USA move from 4 to 24
Omit Request TV2 to Satcom 4 XPDR 17
American Movie Classics and AVN move from 12 to 14
Omit the Cable Program Guide that was on 14

Telstar 303 - TVN uses XPDR 1 thru 9 also rest of menu unchanged

Westar 5 - Add - CTNA to XPDR 13
Add - Sports Channel - South VC2 - to 16
Move Caribbean Superstation to 6

Spacenet 1 - add - TV Heaven to XPDR 9
- add Check Out newscasts to KU 24 - this is the CNN news service to Supermarket Check-out Counters

Anik C-3 - definitely in use for feeds

Morelos 2 - Drop?? - XEWH - Hermosillo XPDR 3
Drop?? - MultiVision - Childrens XPDR 10
?? is necessary unless they are on a tight spot beam not visible here. Perhaps Jim Pizzi has something new on this??

Anik C1 - Omit Chinese service found on 14 in the evenings.

Spacenet 3 - Add - 11 - VC2 PSN???

Satcom 4 - Add Request TV 2 VC2 to XPDR 17

Galaxy 2 - Add - Drive-In PPV to XPDR 15
Add - Spice PPV to XPDR 21 (was Rendezvous)

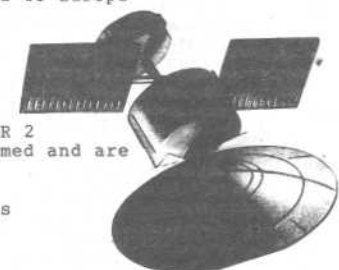
Spacenet 2 - Drop - Drive-In and Spice - move to Galaxy 2
Note - XPDR 10 is Galavision feed to Europe using PAL color format only

PanAmSat - Drop CNN Hybrid on Ku 15
- TP for PanAmSat constant on 12

Intelsat at 27.5 W - Is now V1-F4
TVE Internacional has changed to XPDR 2
Venezuelans are now tightly spot beamed and are now no longer visible here.

That's all for this time see you in 30. '73's

George



Television news

BILL FAHBER, EDITOR
336 ATLANTIC ST
BRIDGETON NJ 08302-2525

OCTOBER, 1990

TELEVISION NEWS - page 2

NOVEMBER, 1990

ABBREVIATIONS USED IN THIS COLUMN:

AATm	Height (meters) above average terrain
AG	Antenna height above ground
ASL	Antenna height above sea level
AZ	Azimuth (North=0°)
BT	Beam Tilt
CIR	Circular polarization
CP	Construction permit
CRTC	Canadian Radio-television and Telecommunications Commission
DA	Directional antenna
ELL	Elliptical polarization
ERP	Effective Radiated Power
FCC	Federal Communications Commission (USA)
HOR	measured along a horizontal plane
MAX	In the direction or elevation of maximum signal strength
MP	Construction permit modification
TL	Transmitter or tower location
+	carrier frequency offset 10 kHz above standard
-	carrier frequency offset 10 kHz below standard
Z	carrier frequency not offset

APPLICATIONS FOR NEW TELEVISION STATIONS

ST	CH	ERP	AATm	CITY/APPLICANT
AR	48	2500	342	Jonesboro; Banner Broadcasting Corporation
CA	39	310	405	Bakersfield; Community TV of Southern California
NY	46	63.9	206	Jamestown; Western New York Public Broadcasting Association

APPLICATIONS DISMISSED

NE	Omaha; ch.54; Omaha Channel 54 Inc.
TN	Knoxville; ch.15; Knoxville Community Broadcasting Inc.; Lincoln Memorial University.

CONSTRUCTION PERMIT GRANTED

ST	CH	ERP	AATm	CITY/APPLICANT
TN	15	2244	513	Knoxville; East Tennessee Public Communications Corp

CONSTRUCTION PERMIT CANCELLED

ST	CH	CALLS	CITY
LA	44	WPFT	Baton Rouge

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

ST	CH	ERP	AATm	CALLS	CITY
GA	23	3378	447	WELF	Dalton
KY	40	699	241	WQOB-TV	Bowling Green
LA	45	786	202	KCDN	Shreveport
PA	60	12.2	231	WBPH-TV	Bethlehem
SD	12	275	259	KIID-TV	Huron
TX	47	240	178	KTAQ	Greenville

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

ST	CH	ERP	AATm	CALLS	CITY
AL	34	1128	142	WDAU	Ozark
CA	61	2500	803	KKAK	Porterville
CO	53	5000	191	KMHD	Castle Rock
MI	53	1740	299	WLAJ	Lansing
NC	47	2000	186	WFXB	Rocky Mount

APPLICATIONS TO CHANGE EXISTING FACILITIES

ST	CH	ERP	AATm	CALLS	CITY
AZ	13	302	622	KOLD-TV	Tucson (cp)
AR	51	80.1	140	KFAA	Rogers (cp)
CA	19	5000	590	KCSO	Modesto (cp)
CO	9	316	280	KUSA-TV	Denver (cp)
LA	29	2507	394	KVHP	Lake Charles (mp)
MN	29	4556	373	KITN	Minneapolis (cp)

CHANGES GRANTED STATIONS ON THE AIR

AZ	Tucson; KMSB-TV, ch. 11; granted construction permit to change city of license from Nogales to Tucson. Why this needs a construction permit is beyond me. Table of assignments allocates the channel to Tucson-Nogales.
CA	Riverside; KRCA, ch.62; granted license to cover cp for changes; see 7/30 VUD.
FL	St. Petersburg; WTOG, ch. 44; granted license to cover cp for changes; ERP remains unchanged at 5000 kw max; antenna height reduced 20 meters to 454m AAT/451m AG/474m ASL; same TL.
FL	Tampa; WEDU, ch. 3; granted license to cover cp for changes; antenna raised 157 meters ASL to 473m AAT/468m AG/491m ASL; TL 4 miles southeast of Riverview; coordinates 27°49'48"/82°25'59" (Az. 196°, 0.76 mile from former TL); same ERP (100 kw max).
GA	Cochran; WDCO-TV; granted license for changes; channel changed from 15 to *29*; ERP raised from 501 kw max to 5000 kw max; antenna height lowered 14 meters AG to 350m AAT/347m AG/463m ASL; same TL.
MD	Salisbury; WMDT, ch. 47; granted MP to reduce ERP (?) from 3470 kw max/670 kw hor to 2190 kw max; reduce antenna height 8 meters to 304m AAT/305m AG/312m ASL; Same TL; DA BT.
MA	Springfield; WGBY-TV, ch.57; granted CP to raise ERP from 1200 kw max/776 kw hor to 1485 kw max; raise antenna 17 meters to 322m AAT/53m AG/420m ASL; same TL.
NC	Durham; WPTF-TV, ch. 28; granted CP to reduce antenna height 12 meters ASL to 585m AAT/579m AG/675m ASL; TL 1.6 miles southeast of Auburn NC; coordinates 35°40'35"/78°32'09" (same coordinates as WRAL-5; WNW 0.5 mile from present TL); ERP unchanged at 5000 kw max; BT.
VA	Roanoke; WBRA-TV, ch. 15; granted MP to raise ERP from 631 kw max/283 kw hor to 1820 kw max; reduce antenna 10 meters to 625m AAT/71m AG/1211m ASL; same TL; DA BT.
WI	La Crosse; WLAX, ch. 25; granted CP to raise ERP from 501 kw max to 560 kw max; same TL and antenna height (306m AAT/200m AG/570m ASL).

CALL LETTER GRANTS: NEW STATIONS

ST	CH	CALLS	CITY/APPLICANT
CA	51	KVMG	Merced; Wade Axell
CA	31	KVMD	Twentynine Palms; Desert 31 TV Inc.
MT	20	KVME	Billings; Echonet Corp.
NC	23	WWQR	Morganton; GNOL Broadcasting Inc.
TN	15	WKOP-TV	Knoxville; East Tennessee Public Communications Corp.
TN	50	WXJP	Memphis; Kyle Broadcasting Ltd.

TECHFORUM

Several articles sent from **BILL NIENAJADLY** (Clifton N.J.). From the 6/7 *New York Post*, an update on High Definition Television: "An 'all-digital, all-American' high-definition television system developed by a U.S. company has made a last-minute entry in the race to become the U.S. national TV broadcast standard. 'We are leap-frogging state-of-the-art technology,' said Mike Walker, a spokesman for the Video-Cipher division of General Instruments Corp. showcasing the new 'DigiCipher' technology in San Diego." "The [FCC] set a June 1 deadline for proposals on a 'simulcast' system that works on today's TV sets and fits into the existing broadcast spectrum. General Instruments just made it. 'The technologies that we've developed are proprietary technologies that digitize and compress the video signal,' Walker said. 'We reduce the amount of data that is transmitted, but maintain or enhance the quality of the picture. Conventional TVs would receive the standard signal, while the second signal would be broadcast and received on HDTV equipment whose manufacturers pay lucrative royalties to the owners of the technology. Other proposals before the FCC are from NHK, the Japanese broadcasting system; Zenith Electronics Corp., an international consortium of NBC with Dutch and French electronics companies and Massachusetts Institute of Technology. The systems would be tested for 12 to 18 months before the government chooses the standard sometime in 1993."

Meanwhile, the 8/21 *Newark Star-Ledger* reports on other forms of television improvement. "If Americans want to improve their television picture now, scientists at the David Sarnoff Research Center in Princeton may have an idea of vast appeal. Their Advanced Compatible Television (ACTV) system, developed at the laboratories over the past decade, offers a 30 percent improvement in the clarity and detail of a television image. Technically speaking, ACTV is not a [HDTV system.] But ACTV adherents say that the technology could be brought to the American public long before HDTV systems are created and implemented. In addition, Sarnoff engineers have devised a way to squeeze an ACTV signal within the standard [NTSC] signal currently being broadcast over the airwaves so that today's television sets are unaffected and only special ACTVs can decode the information." "The FCC is expected to pick a standard in 1993, but [Sarnoff Research Center president James] Carnes believes it will take much longer to work out the details of a new system before American television viewers will actually be watching HDTV in their living rooms. Proponents of HDTV systems disagree with Carnes, saying that once

the FCC makes its decision, the transition to HDTV will take place quickly."

"ACTV falls into the category created by video experts known as enhanced definition, or EDTV, which is viewed as the next step in the evolution of TV technology after today's brand. It requires modest improvements in today's TV transmissions and small changes in the broadcast standards. The improved signal is compatible with today's TV and it will not carry so much additional information as to require greater bandwidth than is available in today's 6-megahertz TV channel." "The decoder in an ACTV television receiver processes the transmitted signal, separating the components and reconstructing the original wide-screen image on the television display. Digital audio information also would be encoded into the signal."

Even more technology in the 8/22 *Star-Ledger*: "Some day in the future, long after the critical decisions about high-definition television (HDTV) have been made, Jules Bellio (manager of video systems research for Bellcore) believes the real revolution will come. That's when a national fiber optic network connecting every home, office and public building in the country will make possible an 'Information Highway.' And if most homes contain a high-definition television, as he believes they undoubtedly will, a fiber-linked national HDTV system will make the possibilities endless."

"In October 1989, Bellcore researchers working in Livingston conducted an experiment that proved the feasibility of economically transmitting digital HDTV signals over 'broadband' fiber optic networks. They did so by transmitting and receiving a 'compressed' digital HDTV signal over more than 25 miles of fiber optic cable with no loss in picture quality." "In Bellcore's demonstration, an analog HDTV signal is converted into the digital language of electronics and computers producing an information rate of about 622 millions of bits a second. The digital electrical signal is then converted into light and transmitted through the fiber. At the other end of the fiber, the process is reversed."

U.S.A. FORUM

What is a network? You might answer, "Uh, it's like, you know, uh, like the big three, like, you know, ABC, CBS and NBC." Maybe, "It's an interconnection of affiliated broadcast television stations engaged in the transmission of material produced and derived from a common source like you know, ABC, CBS and NBC."

In a sense, if you produce a program and air it over more than one station, you have a network. And a lot of people are eager to use that term for the status it brings, even when they have such a minuscule operation.

In order for the FCC to regulate the influence that networks have over television stations, it became necessary to define exactly what a network is. We see such definitions in *Code of Federal Regulations*, Title 47 (Telecommunication), Part 73 (Radio Broadcast Services), Subpart E (Television Broadcast Services), Section 73.658 (l) (1); (v) 'Network' means a national organization distributing programs for a substantial part of each

broadcast day to television stations in all parts of the United States, generally via interconnection facilities." "(vi) 'Unaffiliated network' means a network not having an affiliated station...in a particular market, even though it may have other types of agreements or program arrangements." Elsewhere in this section mention is made of "the three national television networks."

But a more specific definition is needed to regulate network syndication and program practices. Hence Section 73.858 (j) (ii) (4): "For the purposes of this paragraph and paragraph (k) of this section the term network means any person, entity, or corporation which offers an interconnected program on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." So what is our list of minimum criteria? (1) interconnected, (2) 15 hours a week, (3) 25 affiliates, and (4) 10 states.

Now, how many networks do we have by this definition? Three so far, like, you know, ABC, CBS and NBC. We could include PBS, but section (4) reads, "Nothing contained in this paragraph shall be construed to include any television network formed for the purpose of producing, distributing, or syndicating program materials for educational, noncommercial, or public broadcasting exhibition or uses." There have been other attempts, for example, Home Shopping Network, Home Shopping has the hours, but not the affiliates. The most popular attempt to date is the Fox Broadcasting Network. It has the stations, the states, and the interconnection, but not the hours. At least not yet.

Before we get back to Fox, let's make a distinction between network affiliates, network and program producer. The television station, even if co-owned by a network owner, is an affiliate, and has the right to pre-empt network programming. The network may make its own programs, which is done, particularly news programs and documentaries. But most of your entertainment programs are from other producers, such as Paramount, Viacom, MGM/UA. The networks will buy broadcast rights of a program from the producer if it can find the advertisers to support the program. The producers either sell a program to the network, or put it into syndication, in which case any television station, affiliated with a network or not, can purchase broadcast rights and find its own advertisers.

Now let's look back at this clause, "and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." We have Fox affiliates, Fox stations, Fox network, and Fox programs. How are they related? Fox Broadcasting Company is the network, and makes contracts with the affiliates to provide programming through an interconnection. Fox Television Stations Inc. is the direct owner of seven Fox television stations, which are also affiliated with Fox Broadcasting Company. Twentieth Century Fox Film Corporation creates

the actual programs. (If you don't believe me, check the small print on your Simpsons T-shirt.) All three are owned by parent company Fox Inc., which is itself, I believe, owned by Rupert Murdoch, a former Australian who bought out Twentieth Century Fox, TV Guide, and became an American citizen in order to purchase television stations in the United States. Once Fox expands its network lineup to the 15 hour minimum, it will also become a network by the above definition. And that clause would group Fox Inc. and its three subsidiaries into one network.

The FCC has a law that networks, as described above, are not allowed to sell syndication rights of its own programs, which they had produced themselves, to unaffiliated stations. Nor are networks allowed to purchase any rights from a program producer except the right to air that program over its network. Presently Fox is producing its own programs and syndicating some, such as 21 Jumpstreet, to other stations, even in the same market as Fox affiliates. But once Fox expands its lineup to 15 hours, it legally becomes a network, and would be prevented by law from syndicating its own programs without special FCC authorization.

With that in mind, I proceed to this article from the 7/4 *Philadelphia Inquirer*, written by Michael Hill of the *Baltimore Sun*: "Financial interest and syndication rules don't sound like fighting words, but in certain Hollywood precincts they are enough to make Gucci-loafered types break their bottles of designer wine and come out slashing.

"However, the bigger fight is being waged in Washington, where the [FCC] is considering a change in long-standing regulations that limit the number of shows that ABC, CBS and NBC can own. The FCC is also weighing a change in the rule prohibiting the networks from syndicating shows - selling their reruns to local stations across the country.

"The rules were adopted years ago, when there was little on television but the Big Three. The idea was to prevent a network stranglehold on the medium, which could be accomplished by their broadcasting only the shows that they produced. That type of monopoly is known as vertical integration.

"Nowadays, the network argue it's a different world. With all the cable channels, with the burgeoning number of independent stations, with satellite technology that allows the instant creation of a network, it's ridiculous that the Big Three are handicapped by these rules. They have a point. Paramount can create a network for *The Arsenio Hall Show* every night and for the new *Star Trek* every week, just as King World can for *Oprah* every day, just as Viacom does for the reruns of *The Cosby Show* every afternoon.

"Those studios get to own the shows and participate in the syndication profits of any other shows they produce. So why can't the networks, which essentially are in the same business, do the same? Well, the producers point out, the networks still dominate the medium. Producers still want to get their series, or movies, or other productions on NBC, ABC or CBS. Imagine the tyranny that could result if the

industry were deregulated. They've got a point, too. NBC could say to some producer, 'OK, you want the Thursday night time slot, then sell us 20 percent of your show for a bargain price.' CBS could say, 'You want to get this show on the air? Only if we get a piece of the syndication action.' and so on."

There is a tendency to dismiss the dispute as something akin to the baseball strike - a bunch of rich people squabbling over huge pieces of a gigantic pie. If reason would prevail, there would be plenty to go around for all. Reason has not prevailed thus far. Last month's FCC deadline passed for the two parties to reach a compromise. To no one's surprise, they failed to do so. As a result, the FCC will probably rule by the end of the year."

"The situation that brought on these regulations definitely has changed. The networks no longer have a stranglehold. But they are still by far the most powerful television outlet."

Another legal battle took place in the Supreme Court, as reported by the 6/28 *Philadelphia Inquirer*: "Handing a surprise victory to advocates of affirmative action, the Supreme Court yesterday approved government preferences for racial minorities to achieve greater diversity in radio and television programming. In a 5-4 decision, the Justices concluded that the Constitution's guarantee of 'equal protection of the laws' allows favored treatment for minority broadcasters as approved by Congress."

"The court's ruling covered two cases. In *Metro Broadcasting v. FCC*, a case from Florida, the justice allowed the [FCC] to give special, favorable consideration to a Hispanic-owned television station in Orlando. In *Astroline Communications v. Shurberg Broadcasting*, a case from Connecticut, the court upheld the commission's distress-sale policy, which lets a broadcaster faced with the loss of his license sell to a minority-owned business at 75 percent of the station's market value. The ruling is a victory for a Hispanic-led company in Hartford."

Another piece of news from the 10/4 *Philadelphia Inquirer*: "WYBE-TV (Channel 35), our town's new PBS station, is about to increase its programming from four to seven hours nightly. Since its June 10 launch, 'YBE has been on the air from 7 to 11 p.m. As of Monday, the lineup will run from 5 p.m. to midnight, featuring public-affairs programs, independently-produced films and whatever PBS stuff the station can get for free. Total first-year operating budget for general manager Aeron Ezekiel and his staff of seven is just \$450,000. The Roxborough-based 'YBE, not carried on any area cable systems, will have its first fund-raiser Nov. 8 through 18. Goal: \$40,000." I read elsewhere that WYBE's fundraiser was scheduled to come just before WHYY-12's.

And for more of the latest in television technology, again by way of **BILL NIENAJADLY**, we go to Ethridge, TN and the 8/22 *New York Daily News* (in the humor section of the news; it also appeared in the *Philadelphia Inquirer* the same day, via Associated Press): "When folks in this rural county miss Junior's Little League catch or choir practice, they can call Sarah Evetts and have her play the video on her request TV sta-

tion. That's the way Evetts runs 10-watt WIOBV in south-central Tennessee's Lawrence County, about 100 miles south of Nashville. The station's prime time lineup depends on footage of birthday parties, church programs, school ballgames and a local history show called 'A Peek Into the Past.' 'People'll call me up and say, 'Sarah, put on that tape of my young'un in that ballgame,'" said Evetts, the station's 66-year-old owner, program director, camera operator and technician. [The *Inquirer* adds, "Then they'll call me back and bless me out because I didn't catch their kid's good side." -wbf] Run as a hobby, WIOBV doesn't offer sitcoms, game shows or advertising. It simulcasts the old-movie fare of a UHF station in Florence, Ala., until 6 p.m., when Mrs. Evetts signs on."

"She had trouble getting [FCC] regulators to approve a location for her transmitter until she submitted the coordinates for her home. The transmitter, a metal box about the size of a portable television, sits on a shelf in a cluttered basement room. She estimates her 110-foot tower sends a signal to an area 22 miles by 8 miles. The programs go out with no editing of bloopers and no identifying title or names. 'We don't have to. Shoot, everybody knows who we are,' she said."

JEFF KRUSZKA (Harahan LA) sent this from the 9/1 *Times-Picayune*, about a 24-hour news and information commercial television station. "The Tourist Channel is available to anyone who can pick up its low-power signal on Channel 55, but it's directed at visitors." "The Tourist Channel, which goes on the air today, is the creation of two Alabama men who run a similar station in Orlando, Fla...." "The Orlando station, available in 42,000 hotel rooms, reaches an estimated 88 percent of Orlando's 20 million annual visitors...."

"Special antennas at hotels and motels in Orleans and Jefferson parishes will pick up the signal and switch it to a low-numbered channel on the hotels' TV systems." Jeff adds, "No sign of this station here in Harahan yet."

JAMES NAHIRNIK (Warren MI) cautions that anybody seeing WJBK-TV (ch. 2, Detroit) identifications on channel 38 is actually watching WADL-38 in Mt. Clemens MI. "WADL-38 is currently repeating Channel 2's 5pm newscast at 8-8:30 pm, and channel 2's 6pm news from 9-9:30. In addition, the 11pm news is simulcast on both stations. The two stations are involved in other business ventures as well." "According to an article in the DETROIT NEWS, the cooperation began when channel 2 was looking for a way to relay signals from its remote news units from northern and eastern Macomb County, and Channel 38's new tower was an ideal relay location. I wonder if channel 38 will begin running CBS programs not carried on channel 2. Currently, the CBS late night offerings are seen locally on WGPR-62"

"I believe that I read in a past issue of your column that Weigel Broadcasting in Milwaukee owns full-power WJDT-58, as well as LPTVs or translators in the same market. If this is true and legal, it seems to me that it would be a good business move for a full power network affiliate to operate a LPTV, using their existing tower, staff, and equipment. The LPTV would be

programmed with repeats of newscasts, programs that the main station owns but is not currently using, and network programs that they don't run. If a full power station cannot own the LPTV, they could work out a business deal like channel 2 & 38 have done. In Detroit, WDIV-4 would be an ideal candidate for such an arrangement. They pre-empt so many NBC programs for Tiger Baseball, local programs and movies, that NBC is looking at buying WJBK-2. This rumor surfaced again recently after NBC sold controlling interest in WKYC-3 Cleveland, allowing them to buy another station."

FRANK ADEN (Boise ID) reports, "K10MY and K43BE are now running 'VIDEO JUKE BOX' and actually running local dual IDs"

Also from Frank, this article from the 9/27 *Oregonian*: "...there are plans for still another Portland television station to go on the air next year. Portland is served by five commercial stations, a station that's just about all commercials out of Salem, a public station and a religious television broadcaster. And that's not counting what more than half the population has in the way of cable. It's a crowded field."

"KCFV will operate on UHF Channel 40. Steve Whitehead, general manager of KCFV, would not say when the station plans to be on the air, only that it would be some time next year. 'We plan to operate as a locally oriented, family oriented, independent television station.'" (Translated into English, that means syndicated reruns and public-domain movies. -wbf)

Channel 40 has been allocated to Portland by the [FCC] for several years, but plans to put the station on the air were postponed when KPDX (49) started broadcasting in 1983. It is conventional wisdom that the advertising market cannot absorb more than one new station at a time.

"News that there was some activity with the channel came this week with the announcement by Star Television Network [See John Ebeling's report, to follow. -wbf] that it would begin a national network service linking some 30 cities on Saturday. Star plans to broadcast old television series, movies and 'infomercials' - program-length direct response commercials. Stations in this group will have access to all of Star's programs provided they carry four hours of the infomercials each day.

"Portland was listed as one of the initial 30 stations, but Whitehead said the Dec. 1 startup date listed by Star was in error." "...KCFV has yet to acquire a transmitter or an antenna site. 'We're negotiating for all that,' Whitehead said."

Several articles from various issues of the monthly *TV Technology* come by way of **TON YINGLING** (Dundalk MD). One article reports that WNET, PBS channel 13 in Newark NJ launched a SAP (Separate Audio Program) called Thirteen FM, which "offers a wide range of audio enhancements to Thirteen programming, including descriptive narration and simultaneous language translation, to viewers who have access to a stereo television."

Another article discusses channel 27 in Portsmouth VA: "When Centennial Communications bought WYAH-TV channel 27 from Pat Robertson and the Christian Broadcasting Network, the com-

pany launched a full-blown media campaign to shed the station's new name, WGNT-TV. WGNT-TV turned to Norfolk based ad agency Davis & Phillips, which developed the 'We're Changing The Channel' campaign to promote the station's new image, ownership and programming through on-air logos, graphics, music and promotional activities. 'At a time when viewers are choosing to watch individual programs and not stations or networks, the reworked '27' is being merchandised for today's television viewer,' said Steve Bullock, agency account executive.

This article on must-carry rules for cable television: "The battles are continuing in Washington to find a broadcast industry and cable industry compromise on must-carry legislation. But there appears to be little hope in sight. Congress seems to be in a regulating mood when it comes to cable. (Isn't it always? -wbf) Senator John Danforth (R-Missouri) is getting ready to introduce a bill that would regulate cable systems nationwide." "Many broadcasters would also like to see legislation introduced to restore the so-called must-carry rules, in which a cable system must carry all local over-the-air broadcast signals. Broadcasters would also like to see copyright laws changed that they say too often favor cable systems. Broadcasters complain that some cable systems do not carry all of the local channels in favor of satellite networks. They also complain that many of the over-the-air channels carried are not carried on the favorable low-channel numbers, such as 2-13 on most systems."

How are LPTV stations doing in the ratings systems? "More viewers are watching their low-power television station, according to statistics provided by A.C. Nielsen and Arbitron, the broadcast rating services. Nielsen requires that a station show at least a 2.5 percent share of viewership between 7 a.m. and 1 p.m. to be included in its surveys. Currently, 18 LPTV stations are credited in their home market reports and an additional 179 could show reportability in the near future. Since 1986, 209 markets measured by Arbitron showed a 300 percent increase in viewership of LPTV stations. The statistics were released at the second annual LPTV conference and exposition held in Las Vegas.... What allows LPTV stations to compete with network affiliates and independents is their emphasis on local programming...."

This other article gives more insight into the progress of LPTV. "In June [1989], there were 665 licensed LPTV stations in the United States. About 240 of these were in Alaska, used mostly for an educational network. Trinity Broadcasting operates about 100, strictly as translator stations, and others are run as subscription TV services, as translators for other LPTVs, by the Public Broadcasting Service and by various colleges and universities. In addition, there are more than 200 'true broadcasters' generating their own community-oriented programming.

"John Kompas, president of the Community Broadcasters Association (CBA) in Milwaukee, estimates there are about 15 new LPTV stations coming on-line each month."

"Because about 72 percent of the LPTV

stations are privately-owned, it is difficult to gauge the overall economics of the industry. But Kompas said public companies like Channel America and Video Jukebox Network are doing well." "Kompas said the biggest concern of LPTV operators is the second class status that has been imposed upon the service. 'Many of our stations are operating in the public interest, broadcasting a minimum of 14 hours per week of local programming,' he said. 'Our strength is in localism, and it is absolutely ludicrous for our stations to be thought of as second class in any way.'

"Channel 54, W54AF, serves an area of about 35 miles around Bucyrus, OH, about 60 miles north of Columbus. Bill Allonas, partner and general manager of Allonas Communications, said his LPTV has filled a niche by broadcasting local news, talk shows, high school sporting events and a variety of syndicated programs. 'Just because Columbus, Cleveland and Toledo stations are received in our county, we don't see our own news,' he said. 'So there is a need for our service.' Allonas believes the most successful LPTV stations are located away from the big markets where they can better serve local broadcasting needs."

Operating an LPTV station in a Top 50 market also presents many challenges. Bob Lyons, general manager, of Channel 8, W08BV in Columbus, said competing against three full-power affiliates and an independent dictates what you will be and who you will be to survive." "The advantage of being in a big city market is the large number of businesses and ad agencies located there, Lyons said. "Rural LPTV stations have fewer potential advertisers, but also less competition for ad dollars, he said."

RONALD PURDUE (Byron MN) reports that KXLT-47 Rochester MN is back on the air after being off for nearly two years. Programming consists of "TV Heaven" programs which Ronald describes as "bottom-of-the-barrel," and paid commercial programming.

More on TV Heaven from **JOHN EBELING** (Bloomington MN), from a local paper dated 9/29: "If you want to go to 'TV Heaven' you'll have to unlock your cable first. At least for the time being, no cable system in the Twin Cities area is clearing space for 'TV Heaven 41,' also known as KXLI-TV, which is scheduled to resume broadcasting at 2:30 p.m. today after an absence of nearly two years. In its new incarnation, the St. Cloud-based independent station won't be an isolated oasis of old TV series but, rather, part of a 'TV Heaven' network of UHF stations.

"After KXLI ceased operation in December 1988, its owner, Dale Lang, rethought the 'TV Heaven' concept and decided it would be more feasible financially if a whole string of stations carried the cleverly repackaged old TV series, reducing their operating costs in the process. Lang formed STAR Television Network, based at Universal Studios in Orlando, Fla., and began lining up independent stations to receive STAR's programming via satellite. The 30 stations that have signed up so far will receive 22 hours of programming daily, with the option of carrying all of it or as few as four hours

"The new 'TV Heaven' differs from the old in a

couple of ways. One is that instead of themed nights, the new service will have themed day parts, including an afternoon game show bloc, a Western hour every day at 6 p.m. and a 90-minute comedy bloc at 9 p.m. The other, more significant, difference is that the oldies will share the schedule with what STAR Television calls 'direct response infomercials,' which are program length (and program-like) commercials aimed at getting the viewer to dial an 800 number and order merchandise."

Now we know where all those old syndicated programs go when they finally die. They go to TV Heaven.

John also adds, "Looks like the shopping channels 62 and 07 have died. Nothing seen on either channel for several months now. At the end of activity, ch 62 was running the audio of WLOL-FM."

KEN ONYSCHUK (Riverdale IL) reports, "...an NRC member from West Suburban Naperville...told me about a new TV stn that s/on in August. Ch. 30 WFXV Plano, Ill. It will serve the local Aurora area w/a 25 mi radius." "Haven't seen it yet - or read about it. Just tied for it. Not a sign of a signal. I'm about 42 mi. E of Plano. Need some help here." If there is such a station, it's LPTV, and WFXV wouldn't be its real call letters. Nor is it likely to reach a 25-mile radius.

A few articles from **BRUCE ELVING** (Esko MN). The 5/6 *Dallas Morning News* describes yet another LPTV operation. "Harry Tootle wants to own a television network.... Mr. Tootle says he can do it by owning several inexpensive low-power television stations." "Tootlevision Broadcasting went on the air April 13, becoming Tulsa's first 24-hour, non-religious television station. It featured talk shows, old movies and sports. But 72 hours later, lightning struck the station and knocked it out for what Mr. Tootle hopes will be only 60 days. And not being easily discouraged, Mr. Tootle also hopes to launch another station in that time." "...you only need a 100-watt transmitter, which costs as much to run as an air conditioner in your house," he said. To run his station, seen on Channel 33 in Tulsa, Mr. Tootle tapped a variety of resources. He bought old equipment from traditional television stations and developed some of his own electronic equipment. He operates programming on a personal computer. His operating cost is \$50,000 per year."

"One of my favorite examples of what people can do with LPTV occurred in a small town in Arizona," Mr. [John] Kompas [president of Community Broadcasters Association] said. "The school board president was running against the mayor for the mayor's position. The election got clouded with a lot of mudslinging. The LPTV operator got this crazy idea and invited the board president and mayor to a mud-wrestling match. Mud wrestling. You know what kind of ratings that had?"

More from Bruce Elving, Larry Fues, Tom Yingling and Dave Sinclair next month, I hope. My disk drive just started making squeaking sounds.

will let you know where I ordered them, and how they performed.

"I have modified five tuners, a Superadio and a car stereo with 150 kHz filters. I had the most success with a Marantz digital receiver, model SR 440. This unit required three filters. I can now DX frequencies adjacent to strong locals with very little splatter. And I have adjusted the stereo threshold to a very low level so that I can DX in stereo. The performance is much better than my Heathkit AJ-1510 tuner. I achieved moderate success modifying a new Sherwood RA-1140 receiver. This unit cost only \$88 new, and has 16 presets. I have defeated the automatic FM muting and replaced the ceramic IF filter with a 150 kHz filter. This receiver will make a good auxiliary tuner, at an excellent price. Keep up the great work on your column." Eric might want to consider writing an article saying in general terms how you can defeat the automatic FM muting to permit DXing in stereo on receivers that combine the muting with the stereo switch.

"You listed new 98.5 in Rocky Mount NC in 7-89 VUD, but missed the boat on 'Call Letters Assigned?' They are WSAY-FM and are already on air," says Gus Mancuso. I understand it is country, stereo. "WJMA-FM still 96.7--jump the gun, jump the gun! WRQC Dunn NC (x 103.1) to 103.5 in effect OK. . . Got 112 in New Bern and 158 from Emporia VA. Range was from DC to GA from both spots; only weird catch was WWSN 107.7 Ohio from Emporia, in for almost an hour with no fade!" Next June he hopes to go to South Hill VA. "It should be great--after 11 p.m. closest station on air will be 93.5, 25 miles away with only about 10 within 50 miles; 88-92 is actually too clean. . . The 158 from Emporia is my two-night record now. Hope to break the three night work of 169 from Bellefontaine OH in 1989. . . Anything under 200 will probably disappoint, especially with skips and/or staying four nights. Also good is WPGT goes off 7 p.m. and WPTM at 12."

Mike Cherry sends word of a solar-powered station, IRIE-FM ("eye-ree FM") in Ocho Rios, Jamaica with 7 kw, 24 hours stereo on 107.1, with a relay on 107.5 at Port Antonio on the east coast. "They play reggae and nothing else [and] everywhere you go in Jamaica you can hear Irie-FM coming out of houses, cars and boomboxes! Although only on the air for approximately five months, it is quickly becoming a favorite with locals of all ages. Nice signal. . . JBC-FM and RJR are reported to be increasing the ratio of reggae in their music formats. [Also] some Spanish stations that might have been tropo from Costa Rica were heard on Jamaica recently". In the '60s, FM was reported on that island from Costa Rica and some of the other Caribbean islands via tropo and skip from Brazil. Reception of Colombia and Venezuela was probably tropo. "I hope there won't be a postal strike here in Canada--I would sure like my new FM Atlas plus a chance to get the Christmas mail before this ha pens!"

Mike writes about an FM DX aid, a booster or FM pre-amp which is located at the receiver: "The Magnum Sleuth 150 never ceases to amaze me! It literally sucks the weak-signal tropo (and probably aurora when that mode is usable) out of the scatter! I'm even able to get decent stereo reception out of my regular tropo and tropo-scatter stations! I have yet to try using it with my 1-watt FM exciter, but that experiment will be soon coming." Mike had one mystery from his recent DXing, which turned out to be KTNE-FM *91.1 Alliance NE.

"I enjoyed Joel Rosenberg's article on DAB tests and I observed the same video and audio modulation characteristics," says Mike. "Frequencies used here were

797.5 and 800.5 mhz (1 kw ERP). Vancouver's tests ended around Aug. 23. Enclosed are some frequency flyers from the CBC's recent open house in Vancouver. Dave Sinclair brought them over when he visited. We four-wheel drove up to the Mt. Bruce bandscan mountain-top location (64 stations) and hopefully Greg Coniglio will have our bandscan report published soon. We got to tour the CKVU-10 and CBU-FM1 facility on nearby Hope Hill, Mt. Tuam on Salt Spring island. The 'meter reader' wasn't actually on either station's engineering staff, but was paid to take the twice-weekly readings. He seemed to know little or nothing about wave propagation other than ground-wave and had some vague explanation about CBC having problems picking up their stereo service signal from Vancouver. . . For now they are using a Sony receiver to pick up the primary feed on 105.7 for rebroadcast. . . During my Sunday, Aug. 25 'Rockers' reggae show on CTR *101.9 Vancouver I got a call from an Es listener in Wray CO who was picking us up in Stereo. . . The listener wasn't a DXer but had noticed DX FM stations in previous years. . . See, it does pay for Canadian stations to spew out their call letters and request line numbers. If any WTFDA members pick us up, the number is (604) 228-2487. I'm on noon to 3 p.m. Pacific time. If I knew an opening to BC was in progress, I would give the calls often enough to help DXers verify CTR. . . One of these days I must get with it and order up some 180 and 150 kHz filters for the Sansui receiver."

Eric Fader mentions sharetimers WRHV (not "WRHB") *88.7 Poughkeepsie and WFNP *88.7 New Paltz NY. Not too often a DXer can legally count two local stations on one frequency--but here's your chance. I wonder, however, if WFNP has stereo. "Also WZMX 93.7 CT is 'The New Mix 93.7 FM' [playing] what the industry calls 'bright AC'. I call it truly terrible music. I assume you already know that WWHE NY 107.1 now simulcasts WNEW-FM 102.7 with local Long Island [Hamptons] ads."

Greg Hardison: "Please send me the 13th edition ASAP--wouldn't miss it for the world! If we do another DX show this year (with Ray Briem), you'll probably get a call. No longer airing on national radio. This has taken some of the fun out of it all, though. Keep up the extraordinary work!"

Tom Bryant is going to be listening for the new WAMB-FM1 106.7 Donelson TN, a rarity among FM stations. It will be a nighttime-only station (see above, "Call Letters"), and he may send a tape if it reaches his QTH on the WSW side of Nashville.

Fellow editor Bill Nienajadly addresses an issue I have had to contend with. Bill says: "I honestly wish that any complaints of any column should be addressed to the editor and sent to them directly, not to HQ where they will be printed and make we editors look like buffoons, jerks, etc." In an earlier letter to Bill Thompson, Bill N. said he's "sick of seeing Greg's column trashed. This is the second or third time." I rather like Greg's variety of type fonts. I suppose, however, after direct complaints to the editor don't yield results, then a member could write club HQ to try to bring about changes. I think most complaints are from a fringe part of the membership and don't reflect the reality that each column has a group of loyal readers who enjoy the columns as they are. Bill sent an obit on Paul Lockwood, 51, newscaster at WBAZ Southold NY, who collapsed on the job as he arrived to do a remote at the Polishtown Fair in Riverhead. And he sent an article from the NY Daily News on digital radio, "Will Radio Become a Wave of the Past?" 73, *Paul Lockwood*

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- ON CJSD 94.3 Thunder Bay, 87 North Hill St, zip P7A 5V6. Letter & bumper stickers from Tim Goebel, Program Dir. back in about 2 weeks. (B.Hall)
- FL WAYJ 88.7 Fort Myers, P. O. Box 061275, zip 33906. Letter, t shirt & bumper stickers back in 10 days from Randal Eugene "Skip" Spence, Program Dir. & Chief Operator back in 25 days. (B.Halls)
- PA WHPA 104.9 Hollidaysburg, Box 484, zip 16948. Letter ,fridge magnet & coverage-map from Gary S. Magill, CE back in 2 weeks. (B.Hall)
- TX KPRC 2 Houston, P. O. Box 2222, zip 77252. Folder-qsl card from Lynn Salerno, after 1 follow-up report one year later. Also send 2 logo stickers. (T. Yingling)
- SD KDLT 5 Mitchell, % 3600 S. Westport Ave., Sioux Falls, SD 57116-0196. Letter from Donald Sturezenbecher, CE after one follow up letter send 3 years later. My first letter was not answered due to the studios were moved to Sioux Falls, and with it being busy time for engineering. (T. Yingling)
- NE KDUH 4 Scottsbluff, 1523 First Ave., P. O. 1529, zip 68981. Letter, stickers from Wayne A. Nestor, CE. after one follow-up report. (T. Yingling)
- KS KLBY 4 Colby, 990 S. Range, zip 67701. Letter & coverage map back after one follow-up report from Leroy Steckman, CE. (T.Yingling)
- GA WGXA 24 Macon, P. O. Box 340, zip 31297. Letter from Kim T. Bene', Program Director/Operations Manager after one follow up report. (T.Yingling)
- AL WVDB 91.3 Dothan, P. O. Box 1944, zip 36902. letter from Steve A. Shuemaker, Mgr. mentioned hearing CB skip before, "but this certainly one for our record book" Send bumper sticker, & book about Bethany Bible College. (B.Elving)
- CO KSYX 86.7 Denver, 8875 E. Kenyon Ave, zip 80237. Letter sign by Craig Roberts, CE. Tells about their directional antenna to protect a nearby "quiet zone" from electromagnetic interference, and hoping I'll try for their AM on 630khz. (B.Elving)
- CO KCFR 90.1 Denver, 2249 S. Josephine St., zip 80210. Letter from Robert J. Hensler, CE saying it has been heard in southwestern Canada two years ago. (B.Elving)
- CO KKL1 106.3 Widefield, % P. O. Box 17360, Colorado Springs, CO zip 80935. Letter from Bob Scott, no title. Letter tells of 71 watts, but having a CP for 1600 watts. (B.Elving)
- ID KZMG 89.1 New Plymouth, % 1002 Franklin St., Boise, ID 83642. Short note from "Mac, CE" who says as a ham he's aware of skip. (B.Elving)
- LA KMFL 87.3 Kaplan, % Box 30480, Lafayette, LA 70503. Letter from Ernest J. Alexander, GM saying it's amazing they were heard so far. Send coffee mug , bumper sticker, & key chain. (B.Elving)
- LA WWO 89.9 New Orleans, just zip of 70148. Letter from from John S. Batson, GM mentions about being heard in New England (Mike Bugal ?) (B.Elving)
- MS WUSM 88.5 Hattiesburg Box 10045, zip 39406-0045. Letter from Torye Hurst, Program Mgr mentions also being heard in MO & IL. (B.Elving)
- MS WMAW 88.1 Meridian, % PRM, Box 4343, Jackson, MS 39216-0343. Short letter from Mike Morgan mentioning also being heard in Halifax, NS. Also send program guides bumper sticker & note pad. (B.Elving)
- MT KKEI 95.1 Havre, P. O. Box 2428, zip 59501. Letter from Ed Matter, GM mentioning skip bothering their regular listeners. My reception most distance and to be honest with you, I would be surprised if you ever hear us again. Send sticker. (B. Elvings)



MT KLCM 95.9 Lewistown, P. O. Box 620, zip 59457. Short letter from Tina Boswell, Program Mgr mentioning the AM being heard in AL, but no dx record on the FM. "There are many mountain ranges surrounding Lewistown and some towns in our coverage area can't pick us up!" Enclosed coverage map giving a false frequency of 95.7 mhz. (B. Elving)

NV KNPR 89.5 Las Vegas, 5151 Boulder Hwy, zip 89122. Letter from Lamar Marchese, Pres. & GM says "I think you get the distance record for listening to our station. The previous record was held by a radio enthusiast in Vancouver, BC (Mike Cherry ?) He found it pretty amazing that I could detect his 2 SCAs. (B. Elving)

NM KPCL 95.7 Farmington, P. O. Box 232, zip 87499. Letter from Fareed Ayoub, Station Mgr says he "was surprised and shocked to hear from someone who lives so far from Farmington, NM. What kind of Ph.D. are you?" Later send a second letter mentioning being heard by Nigel Pimblett in Medicine Hat, AB Canada the same day I received them. (B. Elving)

TX KNTU 88.1 Denton, P. O. Box 13585, zip 76203-3585. Letter from Russell Campbell, Development Director who send sticker & letter explaining their complex directional antenna pattern when school hour station KEDM 88.3 Mesquite, TX is on air, & when not on air, they also protect KJBR 88.3 Keene, TX. (B. Elving)

OR KLAD 92.5 Klamath Falls, P. O. Box 489, zip 97601. Letter from D.B.Hagen, Eng. who accuses me of being their most distant listener, says they are 63kw circular, but FCC shows only horizontal. (B. Elving)

SC WLFJ 89.3 Greenville, 2420 Wade Hampton Blvd., zip 29615. Letter from Allen Henderson, Operations Director, send program guide & brief letter "Someone claimed to have picked us in Haiti once for just a few minutes. It's strange when that happens." (B. Elving)

AB CJSR 88.5 Edmonton, Room 224, S.U.B., University of Alberta, zip T6G 2J7. Letter from Ian Istvanffy, Station Mgr. says they're 44.5 watts "A few months ago someone in Finland received our signal" (!?!). (B. Elving)

AB CJAY 82.1 Calgary, Box 7060, Station A, zip T3C 3L9. Letter from Steward Meyers, Program Director also send t-shirt, sticker and says they were heard in Dallas, TX a few years ago. (B. Elving)

AL WVAS 90.7 Montgomery, Alabama State University, zip 36101-0271. Prepared Card signed by S. Myers, received back in 1 month (R. Ross)

AL WOOF 99.7 Dothan, Box 127, zip 36302. PFC & sticker back in 1 month from Mike Holdenfield, CE. (R. Ross)

AL WBHL 91.3 Florence, Box IBC, zip 35630. PFC & qsl card from Jim Lancaster, Sales Mgr in 1 month. (R. Ross)

MS WYHX 89.1 Greenwood, Box 1686, Browning Rd, zip 38930. PFC & bumper sticker from Keith Worrall, CE in 1 month. (R. Ross)

FL WILN 105.9 Panama City, Box 1790, zip 32402. PFC & letter from Jim Broadus, Pres. in 1 month. (R. Ross)

KWNS 104.9 Winnsboro, P. O. Box 54, 337 N. Main, zip 75494. Letter from Richard E. Foster, Owner reply back in 16 days. (B. Hall)

MI WKIB 99.1 Iron River, P. O. Box AC, zip 49935. Letter back from Kurt J. Paro, CE in 15 days, and also send bumper stickers. (B. Hall)

TX KODA 99.1 Houston, 4810 San Felipe Rd, zip 77056. Letter, sunglasses, magnet, & bumper stickers from Dusty Black, Vice Pres/General Mgr. in 15 days. who says "By receipt of this letter you are hereby proclaimed an official member of the KODAKREW." (B. Hall)

AR KMAG 99.1 Fort Smith, 429 Garrison Ave., zip 72901. Letter, medal kits, bumper stickers, buttons, & balloons all from Del Williams, Sales Mgr. in 13 days. (B. Hall) (you must like dxing 99.1 ? editor)

ON CHEQ 101.1 Smith Falls, P. O. Box 1200, zip K7A 4T4. Letter, bumper stickers, key chain from Brian Perkin, Program Dir. in 9 days. (B. Hall)

PA WKYE 95.5 Johnstown, 109 Plaza Dr., Box 309, zip 15807. Letter & bumper sticker from James J. Boxler, CE in 7 days. (B. Hall)



NY WCIZ 97.5 Watertown, RD2, Gifford Rd., zip 13801. Letter from Holle Helix "It's always great to hear from a faithful adoring worshipping listener!" reply back in 10 & 3 flashy bumper stickers to show off just how hip you really are! (B. Hall)

LA KDEA 89.1 New Iberia, P. O. Box 12948, zip 70528-2948. Letter from Donald Bonin, Owner & General Mgr. in 14 days. (B. Hall)

OH WRDL 88.9 Ashland, Ashland College, Dept. of Radio/TV, zip 44805. Handwritten letter from Sara Bontempo, Music Dir. to reply to my phone call too, back in 12 days. (B. Hall)

FL WQCS 88.9 Fort Pierce, Indian River Community College, 3209 Virginia Ave, zip 34981-5599. Letter from Jill D. Roberts, Public Affairs Director, back in 14 days. Very odd letterhead paper, does not show call sign or frequency. (B. Hall)

NY WBSU 89.1 Brockport, Seymour College Union, State University of NY, zip 14420. Handwritten letter from Michael D. Hall, (Wolfchild), no title, back in 2 weeks after phone call. Also send 3 buttons. (B. Hall)

Lots of QSLs this month and some logos. Reporters are Bruce Elving, Robert Ross & new reporter of Bruce Hall. No news on my new computer yet. Now need money for monitor. The big news is I passed the Amateur General Class test at last. So, that explains the /AG on my call. Until I get new ticket in mail, and I'm keeping the call KASTCC. At the convention in Virginia there was some talk of getting a list of all WTDFA members that are hams (amateurs), and try to get a tv/fm dx net on HF. I was surprised just how many so far are getting their license. If any members that are hams are interested, please write to me. I hope most are at least a general class so we could use lower bands beside 10 meters. 73 till next issue, and please report. I have little left to use, which will explain why I have been skipping a month between columns. One point I must make on all qsl items report, you MUST give all information. Don't just give me the call sign, without the frequency or address as I did had to drop some items. Also please use a regular size typewriter print, as its' kind of hard reading such small print. Until later on keep on dxing, qsl'ing, and reporting what you got.



TECHNICAL TOPICS

Back in the April '90 VUD my first article appeared, covering the more technical side of selective ceramic filters for FM DX improvement. I appreciate all the comments, letters, and help that followed from fellow club members. During the last several months I have been able to do a bit more research and experimenting in the lab...and the results have been very successful. This part 2 of 2 will be very results-oriented, with actual test data. Perhaps this article, together with the one in April, will give readers a complete reference on the subject of ceramic filters.

WHAT YOU SEE WITH YOUR EYES

Almost everyone who's tried installing narrower filters has noticed that they are very lop-sided; that makes the tuner more selective on one side of a channel than the other. More observant DX'ers have noted that while close-in selectivity is much better with narrower filters, alternate channel selectivity is degraded. The most persistent experimenters (myself included) who have managed to locate filters with bandwidths of 130, 110, and even 55 kHz have been less than enthused after trying them. All of these effects can be explained.

First, these little filters do not have very tight tolerances. Not even as tight as I originally believed. There is a very noticeable unit-to-unit difference in each of the following characteristics: center frequency, ripple, and bandwidth. Center frequency can vary +/-30 kHz according to the data sheet, but in my collection there are a few that are as much as 75 kHz off (I define center frequency as the point of minimum loss in the passband--this is what you care about when tuning). If you buy three filters having a nominal bandwidth of 110 kHz, and cascade them, you might have an overall bandwidth of 170 kHz or more!

Ripple varies significantly from unit to unit. Notice in figure 1 how different the two curves are. These were both 110 kHz filters, bought at the same time, from the same source. One is very flat in the passband (this is desirable), while the other is somewhat lop-sided. This contributes noticeably to distortion--especially if several of these are cascaded. And bandwidth, typically defined as the range of frequencies over which the filter passband is 3 dB down, varies from 20 to 25%. This is complicated by the ripple problem. Together these discrepancies can make the tuning action of a tuner very lop-sided. (Attempting to internally adjust the IF to match the filters doesn't work.)

I have found that by buying, say, 20 filters of a particular type, I can measure them and thereby hand-pick only 4 or 5 that have a nice flat response and a center frequency very close to 10.7 MHz. Then when I cascade them into a tuner, the performance is noticeably better than if filters are chosen from the lot at random. All of this suggests another reason why manufacturers use wider bandwidth filters in their products than one might think necessary. Over a run of thousands of front ends, it increases the probability that every one will work satisfactorily without the expense of workers hand-selecting every single component.

In Figure 2, there are three curves. These represent actual (not advertised) data for three Murata filters I obtained from the manufacturer. One is a 55 kHz unit, one a 110, and one a 150. Notice how the 150 unit is off-center, but relatively flat. This would cause a tuner to have noticeably (in this case, about 10 dB) better selectivity on one side of a channel than the other. If I used more than one, this lop-sidedness could be significantly better or worse. The 55 kHz unit is not only off-center, but is not at all flat near the center. As expected, when installed, this garbled up the audio so bad that nothing could be understood. Most importantly, notice the stopband attenuation. Ideally, you would want a filter to completely kill an adjacent channel. Nature won't allow this, but the typical ceramic filter is not too shabby. The 150 kHz unit attenuates all the out-of-band signals by at least 45dB. The 110 kHz unit doesn't do so well, about 3dB less on average. The 55kHz unit is about 10dB worse yet. The point is this: just because a narrower filter is used, overall results may not improve. You want to increase adjacent channel selectivity, but *without decreasing* image rejection and *alternate* channel selectivity. More is not necessarily better.

WHAT YOU HEAR WITH YOUR EARS

Figure 3 is a summary, in general terms, of what I've learned in the lab and from experimentation. It attempts to communicate the tradeoffs discussed in this article.

Along the horizontal axis is a range of possible filter bandwidths (it doesn't matter how many filters are used in cascade for this graph). The DX'er wants the narrowest bandwidth possible. As you might expect, going to wider bandwidths increases distortion and decreases intelligibility because the two adjacent signals begin to overlap the desired one. (If there are no adjacent signals, the same result occurs because more noise is received: a decrease of SNR). Going to ever-narrower bandwidths increases distortion and reduces intelligibility because less of the information in the signal is recovered and because the filters are not as well behaved. It is clear where the happy mediums are to be found.

OVERALL IMPRESSIONS

For these experiments, I use a Pioneer TX-7500 tuner, a nice analog tuner from the late 70's that I bought used for \$25 at a yard sale. It came with three filters, which I replaced with sockets to facilitate experimentation. A Probe Nine antenna up in the attic is my signal source. The dial here is, of course, very crowded, with all channels (except 100.5) deep with stations. I tried 55kHz filters. Even with just one, all of the adjacent problems go away...there was even dead space between adjacent stations. Unfortunately, the audio that came out of the speakers was so garbled that even strong local stations were practically unintelligible. Plus, there were some image problems. Then I used 110 and 130 kHz filters. With these, the audio was acceptable, but the very weak stations were still hard to understand. You could hear distortion on musical peaks (=maximum FM deviations). Further, the stopband attenuation of these units was worse than the original 230kHz factory filters. I found I had to tune very carefully to avoid splatter from adjacent and even alternate channel stations.

[NOTE: portable radios typically only use one or two filters and narrower band discriminators--these might really benefit from use of the 130's and 110's. For example, the Radio Shack DX-440 uses two filters. I replaced them with a 130 and a 110 and it made a fairly dramatic improvement. Gus Mancuso does most of his DX'ing on one of these now. A GE Superadio would benefit from a 130 or even 110 and a bit of tweaking.]

180kHz filters will always be a big improvement over the factory filters, particularly if cascaded, and you pay almost no penalty in audio distortion. 150's will be a little better. Going from a 230 to a 150 can be expected to buy you about 15-20dB improvement in ACS. To achieve even better selectivity the secret is to cascade several units. For example, a set of five, properly cascaded, could have 54dB/octave rolloff and 80dB of stopband attenuation. The circuit presented in Figure 4 takes advantage of this by correctly cascading and matching five filters and providing enough gain to overcome their loss. The 150's gave the best overall performance and were unbeatable when cascaded. When I selected the best of my 180 and 150kHz filters using a spectrum analyzer and a sweep oscillator, and built up a 5-filter circuit (as shown in Fig. 4) using these, and installed it in the TX-7500, it produced the best DX performance I've ever been able to achieve. (I'd love to do a side by side comparison with a MR-78 sometime.) With this circuit inserted between the front end assembly and the IF strip, I have about 30-70dB of ACS! (The -3dB bandwidth is 115kHz; the -40 dB bandwidth is 260kHz; and the stopband attenuation is better than 70dB. The center frequency wound up being off by 20kHz--hence the "30-70dB.") With a rotatable antenna on the TX-7500, I can now DX on any FM channel.

The circuit presented in Fig. 4 could be built for less than \$20 by just about anyone; there is nothing tricky. In fact, the easiest method of construction would be to start with a piece of 3.5" x 1.5" board and lay out the components in the same positions as they appear in Fig. 4. Then just use the leads of the components, instead of cutting and stripping wire, to make the connections. Use coax to make the input and output connections to the tuner. It can be installed between the IF and RF section of any tuner having an IF of 10.7MHz, even those older tuners made before the introduction of ceramic filters. Or, it can be installed in place of an existing ceramic filter (leave off the 560- and 100-ohm resistors on the input). Overall circuit gain is set at -5dB (to match a ceramic filter and also keep noise at a minimum). The circuit can be powered off the tuner's B+, anywhere from 9-15V.

I know the average person does not have access to RF equipment for checking out individual filters...and that the tolerances of Toko, Murata-Eric, and TDK filters are not very tight...and what effects the filters have on the audio quality and distortion. (See Figure 3.) I also know that of all the filters I've tested, it seems the narrower bandwidth units have worse image rejection (although there is no theoretical reason for this). Therefore, I feel that the 180kHz units offered by Digi-Key and the 150kHz units from Hosfelt (at only \$1.00 each!) are the best overall compromise. I really don't see any advantage at all in fooling with narrower filters than these.

RECOMMENDATIONS

If you have an analog tuner, you have an advantage no matter what factory filters come inside the cabinet. Just replacing the existing filters with 180kHz units will make a dramatic improvement in your ability to tune adjacent channels, and you will probably not notice the slight loss of highs in the audio. By going to 150 kHz units, your DX performance improves more (this is especially good in car radios).

If you have a digital tuner, e.g. one with synthesized tuning which can only allow you to tune in discrete (heaven forbid, only 100 kHz!) steps, you need to use a narrower filter. The 150 kHz units are still your best compromise. 130's might do *slightly* better, but don't bother unless you can get them easily. The problem is your tuner's inability to off-tune--an important DX capability no matter what filters are used. Not to sound defeatist, but the owners of most mass-market receivers and tuners will find an FM section with 200 or 100kHz tuning steps and no more than 2 or 3 filters. These owners will never notice any dramatic improvements if they have many stations on the dial (which is just about everywhere these days).

If the tuner has 5 or more filters already installed, don't try to replace all of them with the narrowest units you can find. You will be much more successful if you first identify the order they are wired in the circuit, and leave the first two as factory stock. Then replace all the rest with moderate bandwidth, say, 180kHz units. If you have a 150 lying around, you might try replacing the *last* filter in the series with your 150. If you replace the entire chain with 150 kHz or narrower filters, you are in for disappointment (intolerable distortion and degraded image rejection).

If you have one of the older (pre 1970's) tuners, chances are near 100% that no ceramic filters are used at all. If you aren't satisfied with the performance of these, you could be in for a real treat if you take the trouble to change it over. (I have in mind the kit tuners sold in the 60's.)

To conclude this article, here is a table listing the specs of all the filters I can get my hands on and test out. Good luck with the circuit if you try to build one. Any questions or comments...feel free to write. If you need help modifying a very old tuner, please enclose a circuit diagram of same, and an SASE.

TABLE 1. Comparison of various ceramic FM IF filters

model	BW	A	B	C	D	E	F	G	H
SFA10.7MF5	55kHz	-37dB	-40	-7.0	-35	-35	P	170kHz	P
SFE10.7MH-A	110kHz	-32.6	-25.0	-8.5	-39.2	-57.1	F	350kHz	F
SFE10.7MK-A	130kHz	-32.7	-27.2	-7.6	-43.4	-60.3	F	350kHz	F
SFE10.7MJ-A	150kHz	-29.6	-23.9	-6.5	-36.4	-59.4	F	380kHz	F
SFT10.7MS3-Z	180kHz	-29.4	-10.7	-9.0	-32.4	-50.5	F	520kHz	G
SKM-3	180kHz	-32.6	-30.1	-6.6	-13.2	-46.1	G	n/a	F
SFE10.7MX-Z	250kHz	---	---	---	---	---	G	670kHz	E

All models from Murata-Erie, except SKM-3 is from Toko.

All data measured in lab unless otherwise noted.

BW=advertised -3dB bandwidth; A=attenuation -400kHz from center frequency; B=atten. -200kHz from c.f.; C=atten. at c.f. (insertion loss); D=atten. +200kHz from c.f.; E=atten. +400kHz from c.f.; F=spurious response (Poor, Fair, Good, Excellent); G=-20dB bandwidth, from manufacturer's data sheet; H=group delay (P, F, G, E).

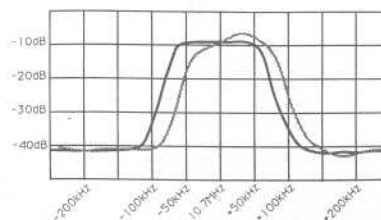


FIGURE 1. Plot of two, 110kHz filters showing ripple and center frequency variation between units.

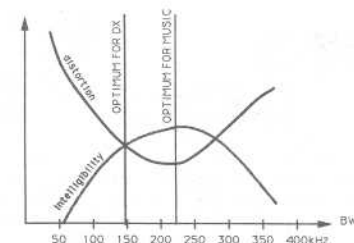
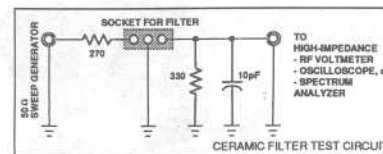


FIGURE 3. Plot of filter compromise.



(2) 4-330r
2-18K
2-10K
2-150r
5-.01uf.
*1-100
*1-560.

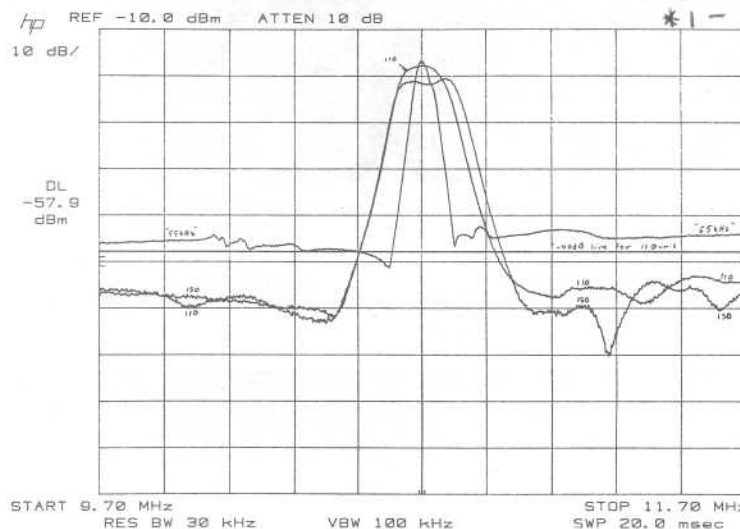


FIGURE 2. Plot of frequency response of three Murata-Erie ceramic filters (actual test data).

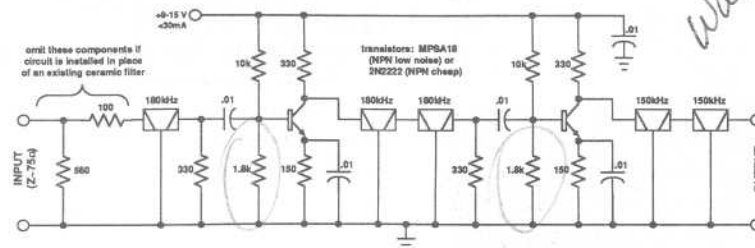


FIGURE 4. Circuit diagram for super-duper IF amplifier using five filters for high selectivity.

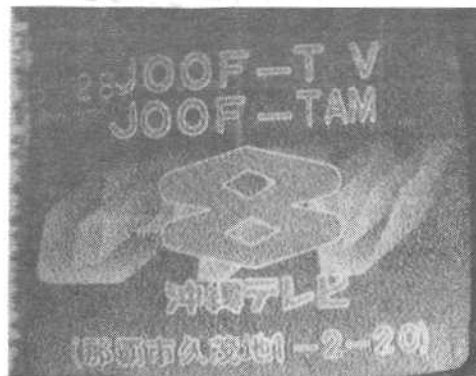
TIM McVEY
10338 Hickory Ridge Road #537
Columbia, MD 21044

PHOTO NEWS

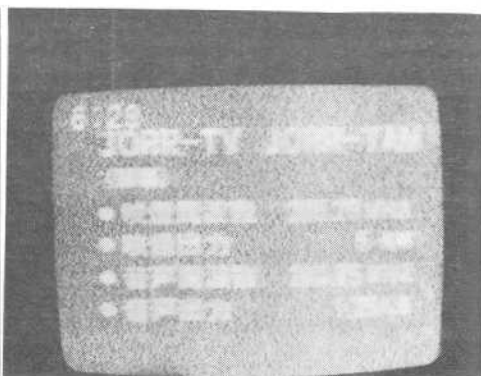
NOVEMBER 1990

Mailing Address:
 PHOTO-NEWS
 12284 Nice Rd - Akron NY 14001-9529
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 EDITED BY
 David J. Nieman

Our first fotos are local reception of commercial TV on Okinawa. They're sent in by Mike Hardester stationed at the time on Okinawa. Equipment: a "loaner" TV North American channel system "M" receiving Japanese channel system "M". The systems are compatible from US channel 8 thru UHF channels. Antenna: rabbit ears.

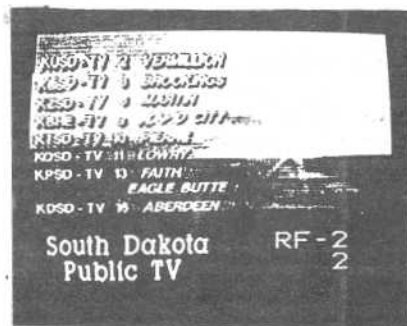


JOOF-J8
 seen on US channel 10
 Naha, Okinawa
 ERP 5kw visual - 1.25kw aural



JORR-J10
 seen on US channel 12
 Naha, Okinawa
 ERP 5kw visual - 1.25kw aural

Next is Joel Rosenberg - Richmond Hill, Ontario; 15 miles north of Toronto. Equipment: Delhi 1047 VHF antenna, Channel Master 8 bay bowtie, CDE AR-22 rotor atop a 48 foot tower. Leadin: U412 coax for UHF and RG-59 coax for VHF.



KUSD-2
 Vermillion, South Dakota
 890 mile E-skip
 seen May 27, 1990
 at 2000 EDT

PHOTO NEWS

NOVEMBER 1990 page 2

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 David J. Nieman

Joel was kind enough to send in high quality photocopies of his DX fotos. If the PHOTO-NEWS column contributors have no objection; photocopying could save the WTFDA money?



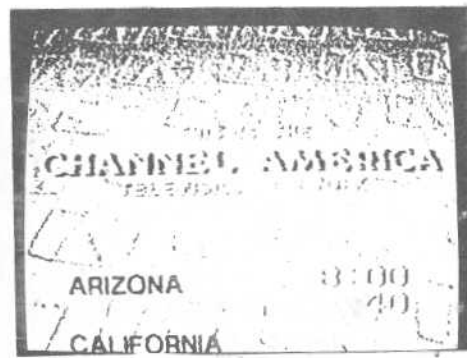
W3BAW
 Rochester, New York
 110 mile tropo
 seen May 28, 1990
 at 2224 EDT



KBTX-3
 Bryan, Texas
 1435 mile E-skip
 seen May 29, 1990
 at 2000 EDT



CBLN4-45
 Wingham, Ontario
 90 mile tropo
 seen June 15, 1990
 at 2130 EDT



W40AG
 Rochester, New York
 110 mile tropo
 seen June 16, 1990
 at 2000 EDT

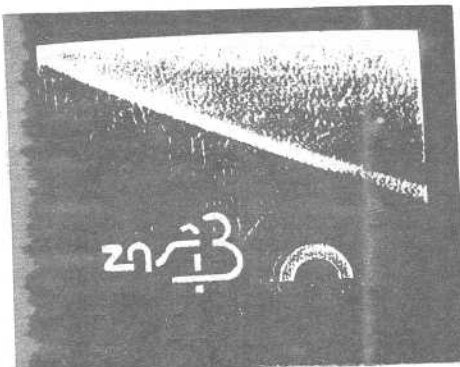
PHOTO NEWS

NOVEMBER 1990 page 3

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EDITED BY David J. Nisaman

Joel's foto of ZNS Nassau was taken while on vacation their.



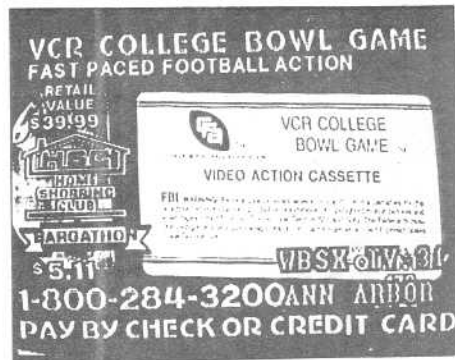
ZNS-13
Nassau, Bahamas
local signal
seen July 14, 1990



CICO24-24
Ottawa, ON - Hull, PQ
215 mile tropo
seen July 19, 1990
at 0751 EDT



CICO95-42
McArthur Mills, Ontario
110 mile tropo
seen July 19, 1990
at 0752 EDT



WBSX-31
Ann Arbor, Michigan
230 mile tropo
seen September 3, 1990
at 1901 EDT

PHOTO NEWS

NOVEMBER 1990 page 4

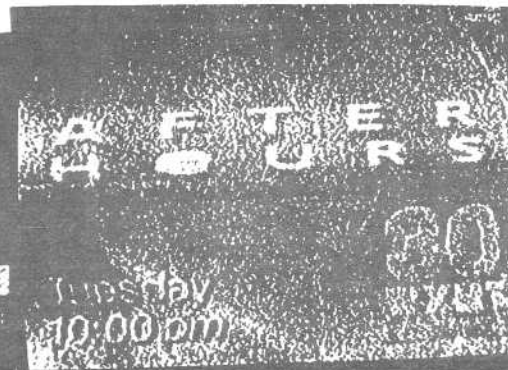
Photos submitted to PHOTO-NEWS become the property of this column and will not be returned.

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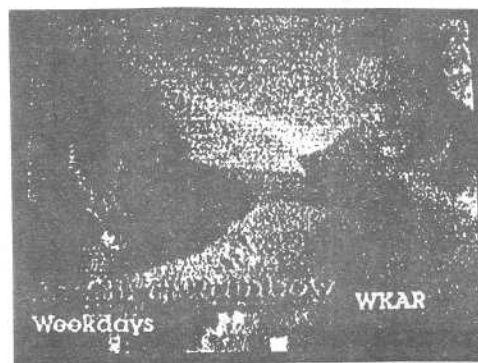
Joel: do you use any preamp with your 8 bay bowtie? too much trouble with the locals?



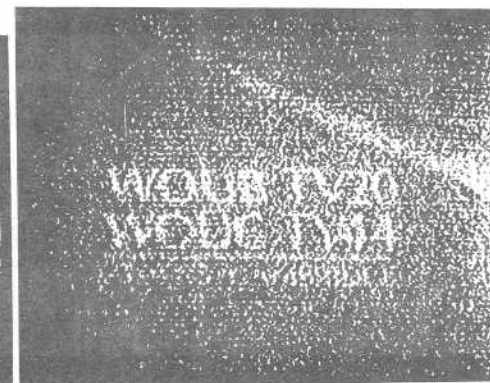
WJRT-12
Flint, Michigan
225 mile tropo
August 29, 1990
at 0440 EDT



WXMT-30
Nashville, Tennessee
660 mile tropo
seen September 4, 1990
at 0800 EDT



WKAR-23
EAST Lansing, Michigan
265 mile tropo
seen September 4, 1990
at 0900 EDT



WOUC-44
Cambridge, Ohio
285 mile tropo
seen September 4, 1990
at 2100 EDT

More from Joel next month +, Jeff Kadet - IL, Joe Fela - NJ & me.

Till next time. DAVE

NWS NEWS

NOVEMBER 1990

IN THIS ISSUE:

- More Weatheradio Canada expansions take place in Quebec.
- Some DX from north of the border
- Some DX from south of the border
- ...and much more!



Matt Sittel
PO Box 21421
501C Wood Hall, NCSU
Raleigh, NC 27607
(919) 546-9370
best times: evenings
before 10PM.
Deadline: 12/1/90
for 1/91 column

Well, it looks like this will be a short column. The 2 reporters this month both hail from our neighbor to the north, Canada. Let's get to them right now...

William R. Hepburn, 1211-1547 Hississauga Vly, Hississauga, ON L5A 3X8 Canada

Equipment: Realistic PRO-2004 scanner, 12th floor balcony vertical dipoles

JULY 1990

21 tr 0744 XLT-839 162.475 ON Goderich 105
(WXR-Canada u/XMJ225)

AUGUST 1990

09 tr 0636 AFG-2 270.100 MI Mt.Clemens 175
(ATIS)

Comments: XLT-839 was rather unintelligible under local XMJ-225. Best reception was actually made when off-tuning to 162.460 MHz (!!-mcs) Forecast for Huron and Perth counties, etc. AFG-2 (aka KMTC) was state #4 as far as AIR stations go. Continuous best of Selfridge weather and ATC info. see-u, Bill.

Charles Gauthier, 3260 Beaulieu, Brossard, PQ J4Z 2P7 Canada

(Ed. Note: Charles mentions that he sent me a letter in July with this information, but that letter never reached me. His 2nd attempt was successful, though. Read on...)

It seems my last letter got lost in the mail. I hope this one reaches you! Anyway, my July letter contained information about the expansion of Weather Radio Canada. Five new stations replaced, this summer, the answering machine service and they concentrate mostly on the agricultural forecast. Here's the list:

city	frequency	transmitter site
Sherbrooke	162.475	unknown
Trois-Rivieres	162.400	Trois-Rivieres 46°25'N, 72°40'W
Saint-Georges	162.400	Mount Ste.Marguerite 46°20'N 71°08'W
Riviere-du-Loup	162.475	Mount Grands-Fonds 47°46'N 70°10'W
Chicoutimi	162.550	Mount Vallin 48°37'N 70°48'W
Montreal	162.550	Mont Royal 45°31'N 73°36'W
Quebec City	162.550	Mont Belair 46°48'N 71°30'W
Sept-Isles	162.550	Pointe Noire 50°09'N 66°29'W

NWS DX REPORT

JULY 1990

26 tr 0000-0100

WRC 162.475 Sherbrooke, PQ 60 mi.
WRC 162.400 Trois-Rivieres, PQ 75 mi. (over KIG-60)
VFN 161.775 Trois-Rivieres, PQ 75 mi.
VFN 161.850 Sorel, PQ 43 mi.
VDQ 161.775 Cornwall, ON 67 mi.

Equipment: Realistic PRO 2002
rabbit ears

Matt Sittel, NWS News Editor

Raleigh, NC DX

AUGUST 1990

19 tr 0850 unID 162.400
20 tr 0730 WXL42 162.400 NC Winston-Salem 88
27 tr 0758 WXL42 162.400 NC Winston-Salem 88
29 tr 0737 KEC95 162.400 SC Myrtle Beach 123
0737 WXL42 162.400 NC Winston-Salem 88
0738 KHB31 162.550 NC Wilmington 116
0741 KIG77 162.475 NC Cape Hatteras 187
1823 WXL42 162.400 NC Winston-Salem 88
31 tr 0759 WXL42 162.400 NC Winston-Salem 88
0800 WXX65 162.475 VA Richmond 142

SEPTEMBER 1990
01 tr 0727 WXX65 162.475 VA Richmond 142
0732 KEC83 162.400 MD Baltimore 272
0920 WXL42 162.400 NC Winston-Salem 88
05 tr 0848 KEC95 162.400 SC Myrtle Beach 123
0848 WXL59 162.475 NC Rocky Mount 66
0848 KHB31 162.550 NC Wilmington 116
07 tr 0722 WXL42 162.400 NC Winston-Salem 88
0725 KHB31 162.550 NC Wilmington 116
0823 WXL59 162.475 NC Rocky Mount 66

SEPTEMBER 1990

07 tr 0825 WXM57 162.400 VA Heathsville 195
11 tr 0801 KIG77 162.475 NC Cape Hatteras 187
0848 WXM57 162.400 VA Heathsville 195
0848 KEC84 162.400 NC New Bern 104
12 tr 0748 KEC95 162.400 SC Myrtle Beach 123
0749 WXL59 162.475 NC Rocky Mount 66
0749 KHB31 162.550 NC Wilmington 116
13 tr 0813 WXL59 162.475 NC Rocky Mount 66
16 tr 1005 WXL42 162.400 NC Winston-Salem 88
1005 WXL59 162.475 NC Rocky Mount 66
26 tr 0802 WXL59 162.475 NC Rocky Mount 66
28 tr 0810 WXL42 162.400 NC Winston-Salem 88
29 tr 0813 WXL42 162.400 NC Winston-Salem 88
0813 WXM57 162.400 VA Heathsville 195
0815 WXX65 162.475 VA Richmond 142
0847 KHB31 162.550 NC Wilmington 116
0847 WXL59 162.475 NC Rocky Mount 66
2136 WXM57 162.400 VA Heathsville 195
30 tr 2223 WXL59 162.475 NC Rocky Mount 66

...SUPPORT NWS NEWS!!!73s, Matt

EASTERN TV-DX

Bill Nienajadly
PO BOX 2999
Clifton NJ
07015-2999
201-478-3044 no collect
calls take

November 1990

Cutoff 9-1-90

Deadline 12-5-90

KY UHF Reaches the East Coast! Joe Fela logged WLEX-18-KY at 566 miles along with WDRB (IN) at 636 mi over rough path mountainous terrain to Central NJ. Joel Rosenberg logs WXMT-TN at 657 miles from ONT! William Hepburn WKZT-KY at 525 miles. Some one from Clifton NJ sees 507 mile tropo to NC. John Combs moves to Tallahassee and sees 901 mile Gulf tropo...with just a 4 bay antenna with amp! Does it get better?...Christopher Dunne saw E-skip to Central America on Sept 27! Is this what they call a "good season". YES!
Note: If anyone has sent a report to this column and it didn't appear, its likely I did not receive it or maybe I might have misplaced it if so; Let me know if a report you sent is not in this column-BN

Saul Chernos PO Box 611 Drillia ONT L3V6K5 (705) 327-7809

From Orillia

August 1990

August 1990

June 1990

3 TR 0815 CB-- 33 ON CBC

3 TR 0830 WNPE 16 NY

26 ES 1900 WPBT 2 FL

OTTAWA-(How about CBOT-MAC

21 ES 2330 UNID 4

July 1990

ARTHUR MILLS-BN

(FM DX TO MN)

4 TR 2330 UNID 45 ON CBC

0817 CIC- 42 ON TVO

"KX-4" NX ment MN

(MAC Arthur Mills?-BN)

From Burnt River

JULY 1990

SEPTEMBER 1990

SEPTEMBER 1990

1 ES 1230 KJRH 2 OK

5 TR 2313 WWTV 9 MI

6 TR WOIO 19 OH

A very busy summer & not much time to DX. Most effort on FM. May have got into WI on Sept 5/6 on TV ch 10.

J.J. Rosenberg 19 Glenayr Rd Richmond Hill ONT L4B 2W3 (416) 884-8454

JULY 1990

22 ES 2015 MUF 2
27 TR 2301 WSNR 43 NY 175
28 TR 0625 Akron/Canton U's
29 TR 0900 WDSU 34 OH 325
30 TR 2300 W64AL OH 175
AUGUST 1990
10 ES 2130 PBS 2
12 ES 2100 MUF 2
13 ES 1800 MUF 2
14 ES 2200 MUF 2
26 TR 0845 WCET 48 OH 420
PBS 15
UNID 32 Religion
UNID 36 Relig-(Note#1)
29 TR 0425 WUPW 36 OH 250
WOIO 19 OH 200
WEYI 25 MI 225
WMSH 66 MI 225
WJRT 12 MI 225
0745 WGTG 30 OH 250
2300 WADL 38 MI 200(Note#2)

30 TR 0820 Watertown+WUTR-20
2000 Cleveland U's-s/f
2100 Youngstown U's-up
31 TR 0830 "Lake" tropo up
2330 U's NW OH up
SEPTEMBER 1990
2 TR 0930 Windsor, Toledo U's
UNID 38 Religion
UNID 39 PBS
WLTW 44 OH 320
3 TR 1540 Youngstown U's-strg
1600 WGTG 30 OH 250
WBGU 27 OH 290
1830 UNID 22 CBS
(How about WYOU-PA ?-BN)
UNID 28 (Scranton?-BN)
1900 WBSX 31 MI 230
thru CITY @ 80
1933 WOAC 67 OH 235
2051 WGN 52 OH 235
4 TR 0800 WXMT 30 TN 657
0820 UNIDS---28-46
12 TR 0745 WGNV 36 NY 170
13 TR 2100 W59AV NY 110
x1tr of WNYB-49

4 TR 0830 UNID 38 HSC
0851 WHME 46 WI 380
0900 WKAR 23 MI 265
UNID 22 PBS
UNID 18
Billy Graham specia
2100 WDUK 44 OH 285
2105 WDOB 20 OH 335
2115 PBS 22 //20+44
2130 WTVQ 36 KY 480
UNIDS 38-34-46-62 relig
2230 WSFJ 51 OH 310
2240 Detroit, SW ONT
2300 WADL 38 MI 200
CBLFT 48 ON 150
rare
2315 CBLN 64 ON 150
also rare
2317 UNID 39 Arsenio
2333 NBC 15 Note#3
2400 WEMT 39 TN 563
2400 WEMT 39 TN 563
12 TR 0745 WGNV 36 NY 170
13 TR 2100 W59AV NY 110
x1tr of WNYB-49

About mid summer, early morn & eve. tropo seemed to shift emphasis from Rochester, Syracuse-Utica to Youngstown... Cleveland-Akron. Detroit not in as often as other years.

Note#1 Aug 26 opening never picked up enough to make other ID's or tentative guesses.

Note#2 Finally logged WADL-comes in much weaker than other Detroit U's. When visiting Detroit in May 89 they seemed to be as strong as the others.

Note#3 During eve of Sept 4, band was loaded. Not ID'd were several KY ETV's also WTAP-15 last logged in 1972, WHIZ-18 -1971, Portsmouth OH-never logged. A memorable opening nevertheless! 1st TN logged via/Tr on Sept 4 (AW/PM) since WTCI-45 in Sept 1972! (Nice going with your TN DX!-BN) 73s Joel

Jerry Monroe 3135 Falls Road Marcellus NY 13108 *****NEW REPORTER*****

September 1990

6 TR 0230 WWTW 9 MI
0215 WVIZ 25 OH
0230 WJRT 12 MI

6 TR 0200 WSBT 22 IN
0200 WXIX 19 OH
0200 WTVN 7 MI

6 TR 0215 WKYC 3 OH
0200 WCAK 93.1 OH

Equipment: 10 element Low band at 30ft, 13" Magnavox, Magnavox Hi-Fi VCR, 10 element vertical hi-band stack at 15 feet with "Armstrong rotor" Preamp, FM Trap, ch 14-30 yagi, 14 element, w/switchable preamp, 30-69 yagi 8 element also Armstrong rotor at 20 feet.

Comments: Location here is 10 miles West of Syracuse NY 1050' ASL (Impressive! -BN) Excellent VHF/UHF spot, high flat land, Rochester, Utica, Kingston, Buffalo, Ottawa, Toronto in all the time (Are there any houses for sale nearby? Hi! -BN) This report covers excellent Great Lakes Trop '90' w/Mich, Ohio, Indiana all in here. (Welcome to ETVDX, with your set up and location you will clean up with DX often, please report often and tell Bill K. I said hi! -BN)

Greg Coniglio 5100 Glenwood Drive Williamsville NY 14221

September 1990

9 TR 2345 Pittsburg U's
W53AU Pitt-Tent

12 TR 1730+W64AK OH
2050 W59BV NY 57
(Rochester w/WNYB-49)

10 TR 2330 NE OHIO+ 39 FE Wayne
W67AL OH 180
(East Lake w/WVIZ 25)

2125 W62AD NY 135
(Nedrow w/WCNY-24)

27 TR 2030 CFJP 35 PQ 310
2200 UNID 39 French
2210 WCFE 57 NY 270
+ wk Det, Tol, Clev, 9, 24
Ottawa, Hull 40, WFWA 39

Not a bad September for trop. Trop on the 12th and 27th was very strong even stronger than all that hot DX the 1st week of September; although the long distance stuff has not come back. Keep up the good work Bill. Don't let any ungrateful members discourage you. 73s Greg (Thank Greg, I try to make ETVDX readable and interesting -BN)

William R. HeBurn - 1211-1547 Mississauga Vlw - Mississauga, ON L5A 3K8 (EDT)

Equipment: JVC HR-D630U VCR
12th floor balcony VHF dipoles / indoor 4-bay UHF

August 1990

26 Tr 0040 WLKY 32 KY 485 \$
0101 WKEF 22 OH 345
0110 WJTC 26 OH T
0111 WRGT 45 OH 345
0159 WXIX 19 (OH) 410 \$
0201 WCET 48 OH 410 \$

26 Tr 0205 WKOI 49 IN T
0559 WBNB 21 KY 485
0713 WKPC 15 KY T
1056 WKZT 23 KY 525
27 Tr 2321 Dayton Us 345
2348 WKOI 49 IN T

September 1990

27 Tr 0333 WSFJ 51 OH 285
1146 WFPB 42 OH T

Comments: Some good 500 mile+ tropo on Aug 26. Re the mystery ch 43 xltr on WNW0-24 Toledo rcvd on Aug 9 (see Oct VUD), I suspect this was actually CBLFT ch 44 Peterboro. I have often seen this station relay WVIZ-25 while CBLFT-25 is off. Somehow I think ch 24 was carried in as well showing up on ch 43. The stereo audio of "WNW0-43" was very strong while the video was rather weak. This would also support this theory as the 24 audio is closer in frequency than the 24 video to the actual intended input of ch 25. What a mess! I'm going to have to keep my eye out for ch 26s on 45, hi!

CIAO, Bill.

Ed Phelps Rt 2 Box 266 Benton KY 42025 502-527-2289 *****NEW REPORTER*****

Location: 20 miles South east of Paducah KY 485' elevation
Equipment: Channel Master VHF ant, 5 ft dish for UHF, Channel Master 747A VHF/UHF amp 1985 GE TV, 38 ft tower,

First week in Sept 1990;...5,7,35 Chicago 7,16, Quincy Ill 6 Davenport IA, 26 Burlington IA, 9 Cedar Rapids IA 49 WI, 39 Rockford, Grand Rapids MI- 13 @ 450 mi, 52 Kalamazoo, 22 S. Bend, 23 Freeport, 35 La Salle, Detroit 56..27+ 21 Madison, 56 Gary Ind, 58 Milwaukee, 11-20-44 Chicago Ill, WADL 38 MI, 13 CKCO- ONT, CKCO3 -42-ONT Band shifting East...OHIO.. 35 Lima, 28 Columbus, 14 Oxford, 49 Akron, 51 Newark, 27 Bowling Green, 26 Springfield, MICH.. 62 Det 17 Grand Rapids,...IND W47AZ Indianapolis (Juke box Net)...ILL 49 Springfield,...OHIO...45 Alliance, 21 Youngstown 350 stations to date, from August 1989 to present, TV DX-ers who are Hans, Im on 160 meters (1.883 MC) and late nite 75 meter band (3.940 mc) 11 PM CST, Also Im into R/C model hobby. My Ham call is NN2E, and use SSB. I am looking for up to date TV Listings. (Welcome to ETVDX and we are looking forward to hearing more about TV DX from KY-BN)

Jerry Beaudin PO Box 146 Curtis MI 49820

July 1990

2 TR 2320 WAND 17 IL 459
2325 WICS 20 IL 480
2329 WKOI '9 IL 429

3 TR 0959 WKBG 53 KY 631

26 TR 0823 WEEK 25 IL 430
0825 WIFR 23 IL 319
0827 WHOI 19 IL 429
0829 WTVO 17 IL
0836 WMBD 31 IL 429

6 TR 2213 WOAC 67 OH 429
2224 WLLA 64 MI
2225 UNID 69 MI
(W69AV Leeland?-BN)

2230 W65BT WI
2232 WSMH 66 MI 222
2237 WGPR 62 MI 289
2238 WQHS 61 OH 389
2258 WDJT 58 WI 240
2304 WHKE 55 WI
2305 CBFT 54 ON
2308 UNID 53 ON French
2311 WAKC 23 OH 412
2326 WOTO 19 OH 391

6 TR 2327 CBLN2 34 ON
2329 WEAQ 49 OH 409
2330 WFWA 39 IN
2332 CKCO3 42 ON
2345 WXON 20 MI 284
2349 CBLN 40 ON 312
2358 WQLN 54 PA 402

7 TR 0006 WNEB 17 NY 401
0016 CKCO 13 ON 317
0024 WJET 24 PA 402
0027 WFMJ 21 OH 436
0044 WYTV 33 OH 437
0046 WKBD 50 MI 284
0100 WSFJ 51 OH 464
0107 WVIZ 25 OH 391
0128 WICD 15 IL 438
0159 WTAP 15 WV 519

September 1990

6 TR 2201 W43AV WI
2204 CBLFT17-68 ON
2209 WUAB 43 OH 389

The night of Sept 6 was great. Every UHF channel had something on it. (Under normal conditions there are no watchable U's here). I got several channels & states I hadn't got before. The best was ch 15 which I sat on for almost a hour with my antenna pointed towards the S.E. which was the strongest direc. Luckily WTAP stayed on & in longer than WICD. (Jerry is moving 5 miles away to a place with 160 acres and 90' higher elevation. Good luck with your new location and we will be looking forward to seeing more TV DX reports from North Michigan. And thank you for your effort in tracking down a distributor for those 110/130 filters, hopefully these people can help you out. Thank for helping your fellow DX-ers out! -BN)

Christopher S. Dunne 21500 Johnson St Box 533 Pembroke Pines FL 33029

2 stations on Ch 3 at 0845 on Sept 27 via ES was believed to be GUATEMALA and had a talk show and a commercial for a movie, perhaps Hulk Hogan. Also mentioned "LUX-2 Theater"... The other Ch 3 I believe to be Mexico, it had a female clown. The logo for the GUATEMALA on 3 was the same logo I seen 7 years ago. Also ment "GUATEMALTECO". FM had COLUMBIA.... PANAMA, COSTA RICA and HONDURAS.....(Nice going on this DX catch! -BN) (This was phoned into me-BN)

Matt Sittel, PO Box 21421, Raleigh, NC 27607 (919)546-9370

August 1990

27 tr 0842 Conditions up north and south. 13 Florence, SC over local W13CI, and weak WHMM-32 DC (241) in.

28 tr 0841 WHMM again.
2028 Conditions up. WISW-24 MD (268) and 26 and 32 DC in.
2258 to 2329: North way up. 20 in DC now in with 26 (both 241) but 32 gone (when do they --?). 50 DC (242) also there. 45 and 54 Baltimore in (274,268), along with 53 Goldvein (213). WVIR-29 (158) in well.

29 tr 0754 to 1100: Great opening! Soon after I turned the set on, there was a power outage lasting from 0810 to 1030, approximately. Things were still up after the power came back on! New was WWBT-12 (140) and WTKR-3 (144). 20,26,32 and 50 DC, 24,45,54 Baltimore, then saw WTKR-66 (225) and WMPB-67 (278), also rare 16 Salisbury (255) about 1040.

1823 to 1900: Severe thunderstorms came through about an hour before, and as usual left some nice signals from nearby stations. Richmond strong with 23 in great and 35 near local strength, and new WCWV-57 (138) noted. Even 26 DC and 53 Goldvein made it in!

30 tr 0824 26 and 32 DC in weak.

31 tr 0800 to 0853: There is a hurricane east of Bermuda...I've got to think that this was the cause of this great DC tropo. 32 and 50 in color, same for 24 Baltimore. 66 Manassas in. 29 Charlottesville weak, and WDBJ-7 even in (132) over WITN-7. 38 Roanoke in color.

September 1990

1 tr 0734 to 1120: Another great morning tropo. 20,26,32 and 50 DC, 24 and 54 Baltimore, 29 Charlottesville weak, 66 Manassas, 56 Fairfax in but not 53.

7 tr 0818 to 0840: 32 DC and 54 Baltimore in, but also 24 Charleston, SC (200).

I left out the majority of the loggings under 200 miles that I saw, as it would be a lot of repetition. The last part of September has been unusual because there has been hardly any DX to speak of. Perhaps October will be better. 73s Matt.

WESTERN TV-DX

November 1990

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

BN Baja California Norte CH Chihuahua CU Coahuila NL Nuevo Leon
 ZA Zacatecas

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

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 60's) (used with antennas on 40' tower). Panasonic 9" b&w portable.

August 1990

25 tr 0556 @WEIU 51 IL 345	27 tr 1916 WCCO 4 MN 280	2 tr 2030 W24AI 24 IN 190
0620 WDKY 56 KY 480	(Snow free)	(Michigan City TBN)
WAFF 48 AL 685	(Twin City U's	(Abv 2 snowfree)
0633 WSEE 35 PA 405	so-so)	2115 WTQV 36 KY 473
1359 WCET 48 OH 400	29 tr 1830 W43AV 43 WI 105	2133 WCVN 54 KY 407
WIII 64 OH 400	(Waukesha LPTV-CHA)	WKON 52 KY 437
WXIX 19(OH) 400	30 tr 0700 WCET 48 OH 400	2236 WEIU 51 IL 345
WCVNT 54 KY	WIII 64 OH 400	(Snow free)
WPBO 42 OH 461	WKON 52 KY 437	W57AO 57 IL 370
WOSU 34 OH 395	WDRB 41(IN) 437	(Robinson LPTV-TBN)
1408 WNEO 45 OH 405	31 tr 0600 W30AL 30 IL 199	W34AY 34 IL 300
2100 K58CM 58 MN 275	(Plano LPTV-CHA)	(Champaign LPTV-TBN)
(Duluth TBN)	Cincy UHF's 400	WUSI 16 IL 402
KSAX 42 MN 374	1815 W45AJ 45 IL 165	WVUT 22 IN 405
(Snow free)	(Rockford LPTV-CHA)	3 tr 0800 WUTV 29 NY 445
Twin City U weak	33, 62, 68 also	WNED 17 NY 445
W57AR 57 WI 145	in snow free	WNYB 49 NY 445
(Sayner WSAW-7)	1830 KSPR 33 MO 589	CIII41 41 ON 410
2155 KAWBt 22 MN	KDEB 27 MO 589	CFMT 47 ON 410
2207 Twin City U good	KOZK 21 MO 589	CITY 57 ON 410
26 tr 1808 WTQV 36 KY 473	KMIZ 17 MO 470	0828 KDNL 30 MO 432
WKLET 46 KY	KSNF 16 MO 630	CIVO 30 ON 582
WCET 48 OH 400	1932 WHSL 46(MO) 432	(Jerry Lewis MDA)
WKON 52 KY 437	(Snow free)	CIC024t 24 ON
WDRB 41(IN) 430	K52AYt 52 MO	1507 WDRB 41(IN) 437
1835 WYMT 57 KY 550	1951 KDNL 30 MO 432	1528 WJET 24 PA 405
WSBN 47 VA 587	2005 K58Dht 58 MO	WSEE 35 PA 405
1838 WMSY 52 VA 612	2129 WNEO 45 OH 405	WQLN 54 PA 405
WKSot 29 KY	2206 KFVS 12 MO 512	1540 WETGt 66 PA
WXIX 19(OH) 400		(u/ WSMH & WGBO)
WEMTt 39 TN		1731 WNPet 16 NY
WIII 64 OH 400		WFYft 50 NY
2050 WPB0t 42 OH		WGGN 52 OH 325
27 tr 1823 WOSU 34 OH 395		1800 Peoria's U's
WTTet 28 OH		(Snow free)
WGRB 34 KY 515		1830 WAKC 23 OH 380
WTVQt 36 KY		1900 Youngstown U's
WKON 52 KY 437		including ch 58
WCET 48 OH 400		WNEO 45 OH 405
1825 WMSY 52 VA 612		WEAO 49 OH 380
WIII 64 OH 400		WPGHt 53 PA
WDRB 41(IN) 437		WOAC 67 OH 390.
1912 WPBO 42 OH 461		WSFJ 51 OH 395
WXIX 19(OH) 400		WPCBt 40 PA
1916 WYMT 57 KY 550		1915 WCET 48 OH 400
		WDLI 17 OH 395

September 1990

1 tr 0156 KPTMt 42 NE	0532 WKBN 27 OH 420
2 tr 2020 W47AZ 47 IN 320	(Indianapolis VJN)
	WCET 48 OH 400
	WDRB 41(IN) 437
	WKMJ 68(IN) 430
	W43AV 43 WI 105
	(Abv 3 snowfree)
	2030 W19BA 19 MI 145
	(Grand Rapids TBN)
	(Morse code ID)
	WIII 64 OH 400
	W69BT 69 IN 200
	(South Bend WCIU-26)

Western TV-DX

November 1990

3 tr 1915 WBNX 55 OH 380	7 tr 1737 WPBO 42 OH 461	20 tr 2008 WXMTt 30 TN
CBLFT17 68 ON270	11 tr 2206 W54AF 54 OH 340	WUSI 16 IL 402
2051 CBLN2 34 ON 270	(Bucyrus LPTV)	WFIE 14(KY) 420
2055 WYMT 57 KY 550	WOAC 67 OH 395	2017 WEIU 51 IL 345
WIII 64 OH 400	WSFJ 51 OH 395	WFLI 53(GA) 670
WKMJ 68 KY 437	WOSU 34 OH 395	2023 WTCI 45 TN 650
WDKY 56 KY 480	WPGH 53 PA 480	WDSI 61 TN 650
WEMTt 39 TN	WGGN 52 OH 315	2028 HJSUt 40 AL
WGRB 34 KY 515	WPTTt 22 PA	WDKY 56 KY 480
WKSO 29 KY 538	WQExt 16 PA	WKMJ 68(IN) 437
2115 WKON 52 KY 437	WUOC 44 OH 427	2048 WKON 52 KY 437
WKPC 15(IN) 430	WEO 49 OH 380	WNAIt 44 AL
5 tr 1739 Erie 24, 35, 54	2234 WKBSt 47 PA	WFIQt 36 AL
(Snow free)	KSAX 42 MN 374	WGRB 34 KY 515
Most lower ON	KRWF 43 MN 395	WKSO 29 KY 538
U's booming in	(Snow free)	2055 WEHT 25(KY) 420
WETGt 66 PA	Twin Cities V's	WHIQt 25 AL
Kitchener 56, 61	and U's good	WCTE 22 TN 587
London 18,40,53	12 tr 0530 WQLN 54 PA 405	2059 WCLP 18 GA 685
WNYbt 49 NY	WSEE 35 PA 405	(A- "Chatsworth- Dalton")
Sarnia 34 and 68	@CIII27 27 ON 458	WKPC 15(IN) 437
CBLN4 45 ON 310	(Briefly)	2122 WPCBt 40 PA
WNEO 45 OH 405	0548	2130 WAAyt 31 AL
2011 CFMT 47 ON 410	Plus lots of the	WBSNt 47 VA
CIII41 41 ON 410	same as 09/11	2141 WMTTt 28 TN
WNED 17 NY 445	15 tr 0649 @WUSI 16 IL 402	WLEX 18 KY 473
CBCE 16 ON 270	WEIU 51 IL 345	2202 WKHA 35 KY 554
W64AK 64 OH 385	20 tr 2003 WAFF 48 AL 685	WEMT 39 TN 613
(Conneaut WJZ-25)	WZDX 54 AL 685	2210 WYMT 57 KY 554
Youngstown 21,27	WKGB 53 KY 553	21 tr 0515 WKHA 35 KY 554
and 33	WEVV 44(KY) 420	WKPT 19 TN 620
CICA51 51 ON 615	WBMGt 42 AL	WTVQ 36 KY 473
2130 CITY 57 ON 410	2008 WDRB 41(IN) 437	0630 WCET 48 OH 400
2223 W58AM 58 OH 420	(St111 indie)	1827 WDRB 41(IN) 437
(Youngstown WNEO-45)	WTVQ 36 KY 473	
7 tr 1737 WDRB 41(IN) 437	WZTVt 17 TN	

I noticed W45AJ, Rockford IL, snow free with Channel America programming as was W43AV, Waukesha WI. Some of the commercials on the two stations were different though at the same time; probably locally originated.

After considerable thought, I've concluded that my logging of KNBC-4 on May 28th was only tentative. I didn't see enough information to be more conclusive.

Doug Allen, P.O. Box 5646, Woodland Park CO 80866 (W2CRS) (719-687-3549) CDT

Equipment:

1981 11" black and white Magnavox or 1977 11" black & white Panasonic, with a Channel Master 1110 @ 35' with a Channel Master 0095 preamplifier and HAM-M rotor. On UHF - Antennacraft Y44G up 40' and a Radio Shack 15-1115 UHF preamplifier.

September 1990

11 tr 0410 KMTvt 3 NE	18 tr 0735 KRNet 12 NE ne	20 tr 0801 KPNet 9 NE
(CNN News - KTVS	20 tr 0710 KSWK 3 KS 230	(PBS - occ. over
off air)	(Stronger than	nulled KUSA)
0422 KSNK 8(KS) 240	semi-local KTVS)	27 gw 0359 KO6-- 6 CO
0500 KUPK 13 KS 255	KBSL 10 KS 190	(Unknown nw KCNC- 4)
(Local KRDO off)	(Strong)	0400 KO6-- 6 CO
KSNK 11 KS 240	0712 KWCHt 12 KS	(Unknown sw KUSA- 9)
(Local KKTv off)	0730 KUPK 13 KS 255	0402 K13-- 13 CO
0730 KSTF 10 NE 220	(o/ local KRDO!)	(Unknown nw KUSA- 9)
16 tr 0242 KSTF 10 NE 220	KSNG 11 KS 240	
0250 KAYSt 7 KS	(o/ local KKTv!)	October 1990
18 tr 0730 KSTF 10 NE 220	0800 KOODt 9 KS	1 tr 0149 WIBWt 13 KS
	(CCI on KUSA)	(Local KRDO off)
		0205 unid ch 5 ne CNN

Some strong openings up to 300 miles, but little beyond that since the antennas went up on the tower. I noted Topeka, Lincoln and Kansas City weakly on FM briefly on October 1st when tentative WIBW-13 was observed. My VHF TV system now compares

Doug Allen (continued) favorably with my FM system, but channels 3, 6, 8, 10, and 12 are normally the only open ones here as the others are mostly no silent period. My Radio Shack UHF preamplifier is overloading, giving me images on so many channels that I haven't tried to sort things out there.

(Doug, I think your channel 6 with KCNC-4 and channel 13 with KUSA-9 may be K06DA and K13FN, respectively, at Alma and some 59 miles from your QTH. I think your channel 6 with KUSA-9 may be K06HF serving Buena Vista and Salida 62 miles from your QTH. The Alma translators are about 3.8 miles north northeast of Alma at around 12000' asl. The power is listed at 21 Watts erp. The Buena Vista/Salida translators are located on the eastern slope of Mount Princeton at about 10500' asl. The power is listed at 14 Watts erp. You might want to check your topo maps for path obstructions. fm)

Frank Merrill, P.O. Box 669, Macomb IL 61455 (309-833-2661) CDT

Equipment: See October 1990 Western TV-DX

Table with columns for date, call letters, frequency, and location. Includes entries for July 1990 and August 1990, listing various stations like KSNB, KUSO, and K40CO.

Frank Merrill (continued)

Table with columns for date, call letters, frequency, and location. Includes entries for August 1990 and November 1990, listing various stations like WPTB, WDIQ, and W21AI.

Frank Merrill (continued)

26 tr 0335 WTV 51 PA 773
(CCI only)

0354 W44AG 44 PA 560
(Erie TBN)

0403 W23AT 23 IL 170
(Mokena VJN)

0432 W48AA 48 WV 620
(Keyser WNPB-24)

WDCA 20 DC 725
("On top")

WBNX 55 OH 473

0433 @CKCO2 2 ON 572
(Previous by Es)

0437 WVAH 11 WV 484

0439 WUSA 9 DC 726

0443 W15AD 15 WV 650
(Wardensville WNPB-24)

0454 WNPB 24 WV 576

0456 CFPL 10 ON 512

0500 WGP 36 MD 604

0505 WICU 12 PA 562

0518 WQWK 13 WV 468

0527 @WLHY 15 PA 744

26 tr 0539 unid ch 56 sse
0543 WCHS 8 WV 486
WTOV 9 OH 526
WQLN 54 PA 558
Youngstown 21,
27, & 33 525

2300 WQLN 54 PA 558
WOAC 67 OH 490
Cleveland,
Detroit, etc.

2343 WYMT 57 KY 459
WKSF 61 KY 460

27 tr 0000 CBLN 40 ON 508
0115 WYTV 33 OH 523
0208 ON 48, 59, & 61
W66BV 66 MI 410
(Detroit Univision)

(Rare)

0238 W59BP 59 OH 440
(Ashland CHA)

0239 W56CA 56 OH 405
(Delaware CHA)

0240 W29AI 29 OH 485
(Akron CHA)

(See Note # 6)

27 tr 0330 W50BE 50 OH 450
(Mansfield LPTV)
(WX map w/music)

0429 +WOAY 4 WV 535
(Previous by ms)

0440 WVA 6 WV 553
(Under WRTV)

0445 WBRA 15 VA 606
WSBN 47 VA 496
WMSY 52 VA 547

0457 WKOI-43 on 68 ??
0507 W63AH 63 OH 375
(Maplewood WPTD-16)

0519 KELO 11 SD 369
KPTM 42 NE 295
(Overloading)

0530 KOED 11 OK 410
0548 @KFAA 51 AR 359
2010 Cleveland, Detrt,
& Columbus U's

28 tr 0113 K40CO 40 IA 260
0114 K55FL 55 IA 320
(Spencer KMEG-14)

0138 CBLN 40 ON 508
0150 WJFW 12 WI 367

- Note # 1 - (0143, 7/13) Noted on KTTT-10 sign/off was a mention of K67CH, La Crosse, replacing W83AH. If you never logged a channel 83, you won't.
- Note # 2 - (0253, 7/ 3) Noted with full vertical line-groupings test pattern ("multiburst"?) without calls. I used to occasionally see this from Toledo in the early 80's. Offset also matched the WTFDA station book.
- Note # 3 - (1919, 7/11) This was a strange opening! There was ABSOLUTELY no fading whatsoever, and the MUF (between KDBC's snow free video and nonexistent audio) did not waver the least bit for at least 20 minutes. Why can one opening be like this and another opening be choppy?
- Note # 4 - (1300, 7/12) This might help solve somebody's mystery. This was a Thursday and they had 3/4 color bars which said "Amable teleauditorio de canal 13. Partir a las 13:30 hrs. Continuaremos con nuestra programacion." This message was on a "crawl" at the bottom of the screen. They briefly superimposed calls at 1300.
- Note # 5 - (2100, 7/17) I always believed that very short E skip required a stupendous E skip opening! Obviously this was one of those "cheap" openings - never even a sign of activity on channel 4. So, as long as I have "close unlogged stuff", I apparently need to keep alert during very ordinary E skip openings, as well as the July 8th type.
- Note # 6 - (0247, 8/27) Noted AUDIO semi-ID on W29AI: "The greatest stars of all time are on WAI, Cleveland 29"

Ronald Purdue, Route #1, Box 224, Byron MN 55920

CDT

Equipment:

RCA 13" XL-100 color TV, Winegard CS-8200 antenna at 25', Channel Master 0064C preamplifier, Archer amplified video selector.

September 1990

1 tr 1803 KPTM 42 NE 263
2019 WQRF 39 IL 218
2046 KMEG 14 IA 218
2055 KCAU 9 IA 218

1 tr 2101 KTIV 4 IA 218
KSIN 27 IA 218
KDSM 17 IL 178

6 tr 0654 KJMH 26 IA 240
0658 WHSL 46 IL 400
0648 WDJT 58 WI 237
0650 WJJA 49 WI 259

6 tr 0650 KDNL 30 MO 400

This month's tropo conditions were excellent for the first half while in the last half of those conditions were suddenly "burned off" by passages of several Canadian cold fronts.

Other news around here - I saw test patterns of KXLI-41 in St. Cloud on the 27th. Finally, KXLI and KXLT, here in Rochester, returned to the air on the 29th at 1430 with their "TV Heaven" programming along with paid programming that I think no one is watching!

So, not much to report this month. I don't know when the next report will get to Western TV-DX. 73's and see you in 30.

Christopher W. Hanley, 1321 Beecher Avenue, Galesburg IL 61401

CDT

Equipment:

VHF antenna (unknown vintage) at approximately 30 feet. Tabletop Radio Shack UHF bow tie in the attic at approximately 15 feet. Kawasha 13" color set.

Hello again. Mid August to mid September brought me (again!) more TV-DX than I expected, often from unexpected distances and directions. After ten years at this hobby, I'll admit to being a novice and an enthusiast who can learn from practically everybody. DX'ing TV is, at times, hard work, but it is worth it to me. I hope I never lose the sense of fun that comes with it.

So here's what I got. I've upped my "no relogs under" distance to 280 km (174 miles) to reflect the longer distances I've gotten this season; that will eliminate all Chicago and St. Louis relogs except KNLC-24.

August 1990

24 tr 2245 W33AR 33 IL 113
(Rockford WCIU-26)

2309 KNLCt 24 MO
2234 WKEF 22 OH 333
2324 KBSI 23 MO 249
2344 WTTKt 29 IN
2348 WSJVT 28 IN

26 tr 0006 KNLCt 24 MO
0025 WNDU 16 IN 221
0030 WSBT 22 IN 220
0106 WRGT 45 OH 333
0836 KPTM 42 NE 305
0901 KHIN 36 IA 255
0904 K33AA 33 IA 104
(Ottumwa KIIN-12)

0910 KSPR 33 MO 292
0930 WKGB 53 KY 334

27 tr 0548 WTTK 29 IN 235
0550 WHMBt 40 IN
0555 WXIN 59 IN 231

27 tr 0635 WCET 48 OH 334
1858 WFYt 20 IN
1900 WTHR 13 IN 231
1910 WNDU 16 IN
WSBT 22 IN 220
1929 WDRB 41(IN) 300
1930 WCLJ 42 IN 247
1935 WHMET 46 IN
1937 WIIB 63 IN 247
28 tr 0534 WNDU 16 IN 221
0537 WSBT 22 IN
0545 WHME 46 IN 223
0547 @WSJV 28 IN 222
(Audio - WXJ57)
0555 KMIZ 17 MO 190
(NOAA weather)

29 tr 2219 WOI 5 IA 178
30 tr 0549 WTTK 29 IN 235
31 tr 0600 KPTM 42 NE 305
0603 KTIM 21 IA 245

2 tr 2152 WIIB 63 IN 247
2153 WXIN 59 IN 231
2201 WEIU 51 IL 155
(At last!)

2204 WCLJ 42 IN 247
2230 WTIU 30 IN 240
2250 WTTKt 29 IN
2339 WDRB 41(IN) 300
2340 WFIE 14(KY) 261
2345 WLKY 32(IN) 300
3 tr 0037 KNLC 24 MO 179
0122 WEHT 25(KY) 261
0140 WHO 13 IA 178
0147 unid channel 65
(MDA Telethon -
Evansville, IN,
Morganfield, KY,
Owensboro, KY
phone numbers)

Thanks to Jerry Beaudin; his photo reprinted in a past VUD helped me identify KSPR-33. Thanks also for an unexpected visit from Marvin Shults, who brought his huge album of station ID photos. And thanks to Jerry Lewis for putting his MDA Telethon on during a big siege of tropo. Last but not least, thanks to all the VUD editors for they work they put in. 73's to all.

(Chris, I wonder if your channel 65 with Evansville, etc. phone numbers might be W65CD Paducah, Kentucky. That is a construction permit for a channel change by the local channel 54 LPTV which had been RFD-TV. Perhaps they have gone on the air and are translating one of the Evansville television stations. fm)

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

PDT

Equipment: See September 1990 Western TV-DX

August 1990

9 tr 2200+ OR 24, 32 strong
28 tr 0922 KWCT 27 WA 185
(Strong)

10 tr 0300-1100 OR 24, 32
still in strong
1047 KTVZ 21 OR 346
2220 15,24,32 s/free

September 1990

1 Es 0830 KENW 3 NM 1467
0857 KNMZt 2 NM
0900 KOB 4 NM 1280

4 tr 2023 K36BO 36 WA 70
(Deming KOMO- 4)
(Snow free)

6 tr 0800 +KCKA 15 WA 161
(Snow free)

Es 1000 KSWK 3 KS 1350

9 tr 0750 @CBUT34 35 BC 65
0754 CHAN9 21 BC 98
1043 K54AC 54 WA 95
(Bremerton KIRO- 7)
(Very rare!)

19 ms 2206 unid ch3 14 secs
20 tr 0537 WA 35,42, 25, 29
(Briefly)

21 ms 0339 unid ch 2 5 secs
(3/4 color bars)

24 tr 0619 @CBUT25 35 BC 87
0623 @CBUT6 14 BC 76
(S/free-unusual)

12 tr 0848 KNDO 23 WA 213
(Loc. CHAN6 off)

0852 KNDU 25 WA 279
2357 KNMT 24 OR 234

14 Es 0900 \$KTVS 3 CO 1150
16 ms 0515 unid ch 2 9 secs
tr 2114 KIMA 29 WA 213

Locally, KBGE-33 Bellevue-Seattle is silent. It had been HSN.

Mike Cherry (continued) This years E skip season was better than last years. I'm still floored by my reception of KTBS-3 (1887 miles) and KIII-3 (2007 miles). I am eagerly waiting to see Doug Allen's next TV report. I think these signals may have been tropo to the Nebraska-Kansas-Colorado "uplink" for E skip at my QTH. Otherwise, these must be "cloud-to-cloud" or possibly ionospheric-ducting as Joop J. Prosee described in his excellent update on current propagation theories and research.

Temperature inversions on September 9, 10 and 17 brought fog and early-season tropo from various coastal locales, both north and south.

I've noticed high F2 MUF and 200+ solar flux one or two days in the last few weeks, but foreign TV frequencies (45+ MHz) don't seem affected yet. No aurora noted yet.

Finally, a couple of amateurs who are into VHF/UHF have moved to the island and I've met them recently and am putting the bug in their ears to try DX'ing TV & FM! We have been discussing the theoretical possibilities of moonbounce (EME) at the low end of the UHF TV dial using 7 foot parabolic reflectors and a phased 4 x 4 array. Has anyone in the club experimented with moonbounce at all? Is it theoretically possible (especially with varied time zones and having powerful enough transmitters on locally clear TV channels)? These amateurs seem to think that frequencies in the low part of the UHF band are at the ideal wavelengths for EME.

Lastly...a note to John Combs; your change to my geographical coordinates was correct. Thanks. Until next report... 73's, Mike

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

CST

Equipment:

1980 model 9" J.C. Penney b&w with Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

July 1990

1 tr 2340 KPLC 7 LA 335	11 Es 1300 KTWO 2 WY 1015	25 tr 2055 KADN 15 LA 380
2 tr 0352 KTRE 9 TX 260	1511 WJMN 3 MI 1310	2158 KLTL 18 LA 335
0413 KNOE 8 LA 425	WISC 3 WI 1060	2215 KTFH 49 TX 205
Es 2057 KOTA 3 SD 1040	1525 WBAY 2 WI 1180	KFDM 6 TX 275
3 tr 0054 KBMT 12 TX 280	1541 KGAN 2 IA 960	2249 KLFY 10 LA 370
0058 KLFY 10 LA 370	2126 WWMT 3 MI 1160	2258 K33DB 33 TX 190
0106 KPLC 7 LA 335	2126 WCIA 3 IL 930	(Houston LPTV)
0109 KFDM 6 TX 275	2209 KREG 3 CO 850	2302 WVLA 33 LA 435
4 Es 0959 KOTA 3 SD 1040	12 Es 0957 WBTV 3 NC 1085	2348 KTRE 9 LA 260
6 Es 0950 WJBF 6 GA 1020	1059 KDLO 3 SD 1070	26 tr 0003 KFDM 6 TX 275
7 Es 0829 WBTV 3 NC 1085	1100 WSIL 3 IL 790	0019 KLFY 10 LA 370
WFMY 2 NC 1170	1101 WTWO 2 IN 925	0538 KLTW 24 LA 350
0830 WRAL 5 NC 1235	1129 KXMA 2 ND 1215	KLTL 18 LA 335
0959 WSAZ 3 WV 1120	1132 KOTA 3 SD 1040	27 Es 0959 WPBT 2 FL 1145
WDTN 2 OH 1075	13 Es 1159 KUSD 2 SD 940	1025 WESH 2 FL 1035
1216 KDLO 3 SD 1070	2100 WSJK 2 TN 1005	1029 WEDU 3 FL 990
1228 WAVE 3 IN 950	2113 KDHL 3 MN 1245	1059 WSAV 3 GA 1035
1257 WSYX 6 OH 1140	2128 KDLO 3 SD 1070	1100 WRBL 3 GA 835
1411 WLNS 6 MI 1205	2225 KOTA 3 SD 1040	28 Es 0818 WDTN 2 OH 1075
8 Es 1029 WSIL 3 IL 790	14 Es 2100 KIDK 3 ID 1240	29 Es 1345 WBTV 3 NC 1085
1330 KMOH 6 AZ 1000	18 Es 1630 WSJK 2 TN 1005	1349 WFMY 2 NC 1170
1558 KBME 3 ND 1190	1755 WBTV 3 NC 1085	1527 WCTV 6 GA 875
1559 KUSD 2 SD 940	19 Es 0559 WRCB 3 TN 865	1729 WEDU 3 FL 990
9 tr 0058 KBMT 12 TX 280	0859 WWAY 3 NC 1235	31 Es 1259 WSJK 2 TN 1005
Es 1222 YSR 2 El Salvadr	1259 CKVR 3 ON 1455	1345 WBTV 3 NC 1085
1235 TGV 3 Guatemala	1337 WSAZ 3 WV 1120	1444 WFMY 2 NC 1170
2259 KIDK 3 ID 1240	1744 KINT 3 IA 1010	1608 WSAZ 3 WV 1120
11 Es 1059 WCBT 2 SC 1135	1859 KLNE 3 NE 755	1613 WKRN 2 TN 815
1129 WBTV 3 NC 1085	22 tr 0420 KTRE 9 TX 260	1615 WAVE 3 KY 950
1159 WSAZ 3 WV 1120	0425 KLTV 7 TX 290	1629 WDTN 2 OH 1075
1259 KDLO 3 SD 1070	Es 1957 KGAN 2 IA 960	1701 KGAN 2 IA 960
	25 tr 2030 KPLC 7 LA 335	1725 KMTV 3 NE 830

This is getting to be "old" by now. There was 144 MHz E skip into Florida, Georgia, and even Mississippi on July 29th.

Some of this UHF tropo is being caught with the 13" 1987 RCA color set as the transplanted Penney '76 UHF tuner goes into some self-oscillation much above channel 50 as well as suffering from poor image rejection and spurs on the lower end.

Any "bargain" Teknika tuners left out there? 73, Pat, WA51YX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CDT

Equipment:

1966 Zenith b&w tube receiver ch 14N22, modified Zenith 175-1962 detent tuner. Channel Master 1110 VHF antenna. Channel Master 7 foot UHF parabolic antenna with Winegard PA4975 preamplifier on a 40' tower.

August 1990

10 Es 1200 KKTO 2 NM 972	26 tr 0400 WZTV 17 TN 408	27 tr 2320 WPGH 53 PA 491
14 tr 2200 W62BU 62 IL 42	0440 WOIO 19 OH 401	2330 WOAC 67 OH 417
(Rockford WFTO-35)	0442 CKCO 13 ON 461	28 tr 0045 WNEO 45 OH 426
24 tr 2300 W65BK 65 IN 183	0455 CFPL 10 ON 419	WAE0 49 OH 404
(Terre Haute TBN)	0500 CHCH 11 ON 488	0100 WOIO 19 OH 401
25 tr 0130 W28AI 28 IL 217	0505 CBLN 40 ON 419	0105 WYMT 57 KY 449
(Salem religious)	0530 WOWK 13 WV 428	0300 K39AS 39 IA 181
0200 W34AY 34 IL 124	0550 WFMJ 21 OH 450	(Marshalltown CHA)
(Champaign TBN)	0555 WNEO 17 NY 537	0358 WVAH 11 WV 463
0205 W47AZ 47 IN 214	0558 WJET 24 PA 481	
(Indianapolis VJN)	0600 WAKC 23 OH 404	September 1990
0230 K58DH 58 MO 213	27 tr 0040 WNEO 45 OH 426	6 tr 0440 KSAX 42 MN 404
(St. Louis VJN)	WAE0 49 OH 404	12 tr 0430 KSAX 42 MN 404
2305 WOAC 67 OH 417	0043 WYMT 57 KY 449	19 tr 2400 W45AJ 45 IL 52
2330 WPGH 53 PA 491	0110 WOIO 19 OH 401	(Rockford CHA)
26 tr 0005 WNEO 45 OH 426	0208 WVAH 11 WV 463	21 tr 0040 WYMT 57 KY 449
0008 WAE0 49 OH 404	0420 WKPT 19 TN 508	27 tr 0420 W19BA 19 MI 209
0105 WYMT 57 KY 449	0445 WBRA 15 VA 583	(Grand Rapids TBN)
0250 WVAH 11 WV 463	0447 WBSN 47 VA 483	29 tr 0510 K23CI 23 IA 158
0350 WTAJ 10 PA 571	WMSY 52 VA 533	(Ottumwa KCCI-8)

Had excellent tropo spanning August 24-28 to 600 miles. Plano, channel 30, is back on after testing one night in April. Also, a new channel 45 in Loves Park (Rockford fin). I received them six hours after sign on. There was an article concerning them in the local newspaper. Both are Channel America. Also logged many new close in translators and LPTV's. DX'ing is becoming very difficult in the UHF spectrum as it is becoming so cluttered here with translators and LPTV's.

CORRECTION: In the October 1990 Western TV-DX column, Mike Cherry's logging of KFOR on August 10 at 1959 should have been listed as 1615 miles, not 1670 miles. My mistake!

STATION BREAK

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

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

FOR SALE - Car cassette/radio, M.E.I. model CX 143E. Digital tuning, auto reverse, two track (can be wired to balance or fade, but not both) cassette hardly used, works fine (traded in old car, kept radio) \$25. Radio Shack rotor and outdoor antenna, plus 100' coax, lightning rod, connectors, etc. Been up less than year, rotor hardly used. Make offer.

Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785 (301) 773-3072

WANTED TO BUY - I am looking for copies of the following editions of the World Radio-TV Handbook: 1974, 1975, 1977, and 1978. Replies should state condition and price.

WANTED TO TRADE - Audio Airchecks of Louisville KY radio (either AM or FM). Have several airchecks, etc for trade.

Bob Walker - 30900 Stone Ridge Drive #7314 - Wixom MI 48393

WTFDAers: YOUR ad can appear in the VUD free of charge!

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 14th

NOVEMBER 1990

SOUTHERN FM DX IS FOR REPORTS FROM: AL, AR, AZ, CA, CO, DC, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OR, SC, TN, TX, UT, VA & WV.

500+ MILE TROP PLUS ES FROM COLOMBIA AND CENTRAL AMERICA HIGHLIGHT THIS MONTH.

Doug Allen, W2CRS, P. O. Box 5646, Woodland Park, CO 80866

Equip't: Pioneer TX 9800 (IF modified) & stacked Stereo Probe 9s at 25'
(Stations under 400 miles not reported unless new or remarkable!)

9/1 tr
0700 KZRX 96.9 NE Seward, noisy 500
0701 KHNE 89.1 NE Hastings
0715 W0W 94.1 NE Omaha 504
0715 KEZO 92.3 NE Omaha 504
0726 KNGY 97.7 NE Nebraska City, o/u KUVR
9/11 ms & trs
0912 WDDJ 96.9 KY Paducah, ads, "97 FM"
0930 KNID 96.9 Ok Enid

9/19 ms & tr
0400 WLSU 88.9 WI LaCrosse, ID, s/o, 15
sec. burst
0800-0900 western KS stations very strong

9/24 ms
0800 KWHK 94.5 LA Shreveport,
"KWKH AM and FM Shreveport"

My MO 99.3 CL turned out to be KCLR, not KLER as I speculated. Still wondering about 97.9 "K98 FM", and 105.9 "KICKS 106". Some strong openings into western KS, but everything over 300 miles was weak. MY VHF TV system is working well, but it's on a different tower and in a different room, so I can't DX FM and TV at the same time yet. 73.

Fat Dyer, WA5IYX, 5315 Silvertip Dr., San Antonio, TX, 78228-2744

7/4 Es
1000 KIZN 92.3 ID Boise
1006 KOPR 94.1 MT Butte
1016 KLZY 92.5 WY Powell
1050 KPKY 94.9 ID Pocatello
1051 KUUB 95.1 MT Bozeman
1058 KBXL 94.1 ID Caldwell
1108 KEYA 88.5 ND Belcourt

7/6 Es
0915 WHLZ 92.5 SC Manning
0919 WLWI 92.3 AL Montgomery
0923 WILN 105.9 FL Panama City
0925 WYEB 98.1 SC Folly Beach
0926 WNFJ 99.9 FL Palatka
0928 ITOI 108.9 AL Troy
0930 WRZR 102.3 GA Milledgeville
0933 WERS 103.9 GA Gainsboro
0936 WPEZ 107.9 GA Macon
0937 WCGQ 107.3 GA Columbus
0939 WYAI 104.1 GA La Grange
0941 WBBQ 104.3 GA Augusta
0943 WIJY 107.9 SC Hilton Head IS.
0945 WSYA 103.3 AL Montgomery
0949 WKXR 96.3 SC Aiken
0952 WXTG 96.9 SC Charleston
0957 WFXA 103.1 GA Augusta
1007 WSTH 106.1 AL Alexander City
1018 WTSH 107.1 GA Rockmart
1019 WKNU 106.3 AL Brewton
1031 WPAP 92.5 FL Panama City
1033 WTNT 94.9 FL Tallahassee
1035 WBCG 98.9 FL Tallahassee
1038 WKRA 92.3 FL Orlando
1040 WMEZ 94.1 FL Pensacola
1054 WBIL 95.9 AL Tuskegee
1059 WFCB 88.5 SC Charleston
2002 WVPN 88.5 WV Charleston

9/29 ms
0740 WDDJ 96.9 KY Paducah, ad
10/1 tr
0042 KYEZ 93.7 KS Salina 400
0043 KFKP 94.1 KS Kansas City, 94 country 535
0044 KUDL 98.1 KS Kansas City, ad
0046 KJCK 94.5 KS Junction City, "Power 95"
0048 KMBR 99.7 MO Kansas City, ad 565
0051 KTRFP100.1 ? ID in noise
0055-0200 TV Dxed
0210 KTFK 106.9 KS Topeka, wx 490
0235 KVGH 104.3 KS Great Bend, k, "Froud Country", KQAS was briefly selent, KS #55
0305 KTFX 103.3 Ok Tulsa, "Fox 103", 550
briefly o/kJLS

7/7 Es
0805 WARR 92.3 NC Asheville
0814 WPEG 97.9 NC Concord
0829 WFDD 88.5 NC Winston-Salem
0839 WNTN 93.9 GA Moultrie
0851 WAUB 104.9 GA Blackshear
0854 WHFX 103.3 GA Waycross
0855 WHHR 106.1 SC Hilton Head IS.
0856 WIJY 107.9 SC Hilton Head IS.
0858 WSSX 95.1 SC Charleston
0902 WZLI 106.1 GA Toccoa
0906 WJCE 96.5 GA Savannah
0910 WKXH 95.9 GA Alma
0912 WQZY 95.9 GA Dublin
0915 ITOI 108.9 AL Troy
0919 WXTG 96.9 SC Charleston
0925 WFXE 104.9 GA Columbus
0926 WYAL 103.1 SC Surfside Beach
0929 WESC 92.5 SC Greenville
0931 WIVK 107.7 TN Knoxville
0933 WNSA 95.1 AL Huntsville
0934 WKQB 93.3 TN Tallahoma
0940 WXLK 92.3 VA Roanoke
WTFM 98.5 TN Kingsport
0953 WJIE 88.5 KY Okolona
1003 WTLG 88.3 FL Starke
1011 WVOG 93.5 GA Hazlehurst
1014 WXTG 92.3 OH Columbus
1024 WJFK 95.3 OH Xenia
1025 WRRM 98.5 OH Cincinnati
1027 WHLZ 92.5 SC Manning
1030 WJNN 106.1 IN North Vernon
1044 WCDV 103.1 IN Covington
1046 WLBH 96.9 NC Goldsboro
1049 WKXK 104.1 IL Jerseyville
1050 WNSN 101.5 IN South Bend
cont....

SOUTHERN FM DX

7/7 Es
1051 WIL 92.3 MO St. Louis
1056 WDDQ 95.1 IL Decatur
1058 WVVX 103.1 IL Highland Park
1100 WYCA 92.3 IN Hammond
1105 WKXK 97.9 GA Fort Valley
1106 WLWI 92.3 AL Montgomery
1112 WZNY 105.7 GA Augusta
WKRT 93.1 IL Chicago
1105 WKXK 97.9 GA Fort Valley
1106 WLWI 92.3 AL Montgomery
1112 WZNY 105.7 GA Augusta
1119 WBWI 92.5 WI West Bend
1122 WAPL 105.7 WI Appleton
1123 WJZZ 95.1 WI Kenosha
1124 WAAC 94.9 IL Galesburg
1127 WIZM 93.3 WI La Crosse
1128 WTFX 94.1 WI Watertown
1129 KOEL 92.3 IA Oelwien
1130 WXXQ 98.5 IL Freeport
1131 WWIB 103.7 WI Ladysmith
1132 KLSS 106.1 IA Mason City
1135 WMT 96.5 IA Cedar Rapids
1136 WFFL 103.9 GA Blue Ridge
1137 WIAL 94.1 WI Eau Claire
1138 WSPT 97.9 WI Stevens Point
1140 WTQR 104.1 NC Winston-Salem
1146 KEEZ 99.1 MN Mankato
1149 WKIL 95.1 WV Parkersburg
1152 KMXK 94.9 MN Litchfield
1153 WPAY 104.1 OH Portsmouth
1157 WPTM 95.9 KY Maysville
1200 WHBC 94.1 OH Canton
1200 WBEV 96.5 OH Hamilton
1203 WAKW 93.3 OH Cincinnati
1210 WADD 96.5 ND Bismarck
1221 GMR 93.9 ON Windsor
1222 KQAA 94.9 SD Aberdeen
1223 KBYZ 96.5 ND Bismarck
1225 KQKY 105.9 NE Kearney
1230 WBTU 93.3 IN Kendallville
1234 WNNW 98.5 MI Coldwater
1235 WIBM 94.1 MI Jackson
1237 WLMN 95.9 MI Three Rivers
1241 WQLR 106.5 MI Kalamazoo
1243 WOOD 105.7 MI Grand Rapids
1250 WJTW 93.5 IL Joliet
1252 WLHT 95.7 MI Grand Rapids
1253 WMIL 106.1 WI Waukesha
1255 WKHQ 105.9 MI Charlevoix
1259 WKHY 93.5 IN Lafayette
1305 WVPE 88.1 IN Elkhart
1306 KNGO 98.7 IA Centerville
1309 KMKK 93.9 SD Rapid City
1310 WVIC 94.9 MI East Lansing
1312 KSDN 94.1 SD Aberdeen
1313 WSMI 106.1 IL Litchfield
1315 WAFR 103.3 MI B'ttle Cried
1322 WLAV 96.9 MI Grand Rapids
1324 WBUS 99.9 IL Kankakee
1325 WDEK 92.5 IL De Kalb
1326 WCBR 92.7 IL Arlington Hts.
1327 WQXK 105.1 OH Salem
1336 KSKY 95.1 SD Deadwood
1339 WQAL 104.1 OH Toledo
1341 WQLX 102.3 OH Galion
1342 WCRF 103.3 OH Cleveland
1350 WQLH 98.5 WI Green Bay
1353 WTTT 92.3 IN Bloomington
1354 WVKR 92.5 OH Toledo
1357 WTFI 107.9 IN Indianapolis
1359 WQJC 99.3 IN Van Buren

Dyer, cont.

7/7 Es
1430 WUPS 98.5 MI Houghton Lake
1446 WTBX 93.9 MN Hibbing
7/8 Es
1336 WKRR 92.3 NC Asheville
1337 WZZU 93.9 NC Burlington
1339 WYST 92.3 MD Baltimore
1358 WAYS 93.9 DC Wahington
1418 KKFR 92.3 AZ Glendale
1419 KOY 95.5 AZ Phoenix
1421 KKLT 98.7 AZ Phoenix
1457 WVPN 88.5 WV Charleston
1529 KESD 99.3 SD Brookings
7/9 tr
1222 KHSRO 92.5 NL Monterrey
Es
1251 TGRT 88.8 Gua Guatemala City
1253 TG---88.5 Gua
YSR- 89.0 ELS San Salvador
1300 TGF- 88.1 Gua Guatemala City
1315 TG---98.6 Gua Guatemala City
2009 WAIR 92.5 MI Atlanta
2029 WJZQ 95.1 WI Kenosha
2033 KOEL 92.3 IA Oelwien
2038 ARPN 107.9 UT Roy
2039 KEZJ 95.7 ID Twin Falls
2041 KFTZ 103.1 ID Idaho Falls
2048 KLCY 94.1 UT Salt Lake City
2049 KRCK 93.5 CO Leadville
2051 KLZY 92.5 WY Powell
2055 KJYE 92.3 CO Grand Junction
2058 KLZX 93.3 UT Salt Lake City
2059 KHZT 94.9 UT Provo
2100 KZJH 95.7 WY Jackson
2109 KBFI 105.9 CO Denver
2112 KTAG 97.9 WY Cody
2127 KLWD 96.5 WY Sheridan
2133 WMTS 2.7 CO Glenwood Springs
2138 KANL 96.9 WY Gillette
2143 KZBQ 93.7 ID Pocatello
2149 KYCS 95.1 WY Rock Springs
tr
2201 KLMN 104.9 TX Llano
7/11 Es
1126 WXLK 92.3 VA Roanoke
1135 WJJD 97.7 VA Grundy
1148 WVPN 88.5 WV Charleston
1153 KEYA 88.5 ND Belcourt
1226 KLCY 94.1 UT Salt Lake City
1228 KZHT 94.9 UT Provo
1246 KRDL 95.1 CO Delta
1250 KKRK 93.5 SD Sioux Falls
1253 KTAK 93.9 WY Riverton
1314 CIMX 88.7 ON Windsor
1318 WBTU 93.3 IN Kendallville
1456 WGVU 88.5 MI Allendale
1529 WIAA 88.7 MI Interlochen
1600 WQZZ 93.5 WI New London
1616 WJPD 92.3 MI Ishpeming
1628 WOLX 94.9 WI Baraboo
1632 WHWL 95.7 MI Marquette
2108 CMR 93.9 ON Windsor
7/12 tr
1134 KNFM 92.3 TX Midland
Es
1211 KMKK 93.9 SD Rapid City
1220 KNCM 92.5 MT Miles City
1340 KQDY 94.5 ND Bismarck
1342 KBYZ 96.5 ND Bismarck
1342 KGFY 92.7 SD Pierre
1444 KDZN 96.5 MT Glendive, cont...

NOVEMBER 1990

SOUTHERN FM DX

7/12 Es
 1452 KSOY 95.1 SD Deadwood
 1459 KOGM 95.7 MT Scooby
 1500 KGGH 93.1 MT Sidney
 1508 KLAN 93.5 MT Glasgow
 1528 KYZZ 92.7 MT Wolf Point
 7/13 Es
 0756 TG-- 88.5 Gua
 2049 WZTR 95.7 WI Milwaukee
 2050 WLUP 97.9 IL Chicago
 2052 WTFX 94.1 WI Watertown
 2141 KKWQ 92.5 MN Warroad
 2143 KQWB 98.7 MN Moorhead
 2207 CBWV 97.9 MB Brandon
 2216 KEYA 88.5 ND Belcourt
 2232 KMCM 92.5 MT Miles City
 7/18 Es
 1640 WIKQ 94.9 TN Greenville
 1644 WEGN 93.5 AL Evergreen
 1646 WEGM 98.9 FL Tallahassee
 1552 WKQL 96.9 FL Jacksonville
 1655 WOCL 105.9 FL De Land
 1657 WSSP 104.1 FL Cocoa Beach
 1659 WMTM 93.9 GA Moultrie
 1700 WHFX 103.3 GA Waycross
 1708 WZLI 106.1 GA Toccoa
 1712 WZZZ 95.1 NC Charlotte
 1713 WSPA 98.9 SC Spartanburg
 1730 WESG 92.5 SC Greenville
 1734 WSOC 103.7 NC Charlotte
 1736 WWSI 98.7 NC Greensboro
 1737 WBT 107.9 NC Charlotte
 1738 WKRR 92.3 NC Asheville
 1741 WUWF 97.7 GA Waycross
 1743 WQFW 95.7 GA Valdosta
 1759 WLPT 88.3 GA Jesup
 7/19 Es
 0759 WMCU 89.7 FL Miami
 0820 WUAW 88.3 NC Erwin
 WNHX 92.3 NC Nags Head
 0824 WXLK 92.3 VA Roanoke
 0900 WMOX 93.1 NC Winston-Salem
 0906 WAMU 88.5 DC Washington
 0920 WKRG 101.5 IN Columbus
 0922 WKSI 98.7 NC Greensboro
 0925 WSIP 98.9 KY Paintsville
 0927 WXIL 95.1 WV Parkersburg
 0934 WTCR 103.3 WV Huntington
 0937 WOMC 104.3 MI Detroit
 0939 WXCC 96.5 WV Williston
 0948 WVIC 94.9 MI East Lansing
 0951 WNNK 94.1 OH Cincinnati
 0952 WKDD 96.5 OH Akron
 0954 WNCI 97.9 OH Columbus
 0955 WPMT 98.7 IL Chicago
 0956 WBBY 103.9 OH Westerville
 0957 WRKA 103.1 KY St. Matthews
 1004 WRRR 93.9 WV St. Marys
 1008 WIKB 99.1 MI Iron River
 1028 WOLX 94.9 WI Baraboo
 1029 WCLR 95.7 OH Piqua
 1030 WLBC 104.1 IN Muncie
 1032 WKHQ 105.9 MI Charlevoix
 1035 WVKC 92.5 OH Toledo
 1039 WJJC 103.8 IN Indianapolis
 1040 WJZZ 105.9 MI Detroit
 1044 WLST 95.1 WI Marinette
 1049 WQLR 106.5 MI Kalamazoo
 1051 WCRZ 107.9 MI Flint
 1052 WAIR 92.5 MI Atlanta
 1054 WIEM 94.1 MI Jackson

Dyer, cont.

7/19 Es
 1059 WLQR 101.5 OH Toledo
 WXPB 99.3 IL Mt. Zion
 1102 WLTO 103.9 MI Harbor Springs
 1105 WOMA 96.5 WI Algoma
 1115 WMLL 106.1 WI Waukesha
 1117 WMGV 103.9 WI Oshkosh
 1123 WJPD 92.3 MI Ishpeming
 1129 WJZQ 95.1 WI Kenosha
 1135 KMKX 94.9 MN Litchfield
 1136 WKLB 96.5 WI Milwaukee
 1137 WTBX 93.9 MN Hibbing
 1138 WLHT 95.7 MI Grand Rapids
 1154 KESD 88.3 SD Brookings
 1200 KKWQ 92.5 MN Warroad
 1204 WKLB 98.9 NY Rochester
 1209 KMKK 92.9 SD Rapid City
 1214 KMCM 92.5 MT Miles City
 1222 CJEX 92.7 ON London
 1237 KSOY 95.1 SD Deadwood
 1238 KDZN 9.65 MT Glendive
 1252 WNKX 2.3 MI Detroit
 1253 CIMX 88.7 CN Windsor
 1759 KOEL 92.3 IA Oelwein
 1802 KTUP 93.5 MO Kirksville
 1803 KCGK 88.3 IA Cedar Rapids
 7/25 tr
 0821 XHJD 98.9 NL Monterrey
 0847 K--- 93.5 TAM Matamoros
 2059 WGLW 92.3 LA Laplace
 2225 KIOC 106.1 TX Orange
 2228 WYNK 101.5 LA Baton Rouge
 2241 KYKS 105.1 TX Lufkin
 2259 KTXB 89.7 TX Beaumont
 2335 KHUN 101.7 TX Huntsville
 2353 KNUE 101.5 TX Tyler
 7/26 tr
 0005 KTQR 100.9 LA Sulphur
 0021 KYKR 93.3 TX Port Arthur
 0534 KBBP 92.3 TX Marshall
 0535 KUEZ 99.3 TX Lufkin
 0727 KTUX 98.9 TX Carthage
 0731 KXAL 103.1 TX Pittsburg
 7/27 Es
 0959 WKFX 88.5 FL Sunrise
 WCMQ 92.3 FL Hialeah
 1004 WRMF 97.9 FL Palm Beach
 1007 WJIS 88.1 FL Bradenton
 1013 WYUU 92.5 FL Safety Harbor
 1015 WGYL 93.5 FL Vero Beach
 1021 WFTT 89.5 FL Melbourne
 tr
 1052 KYKR 93.3 TX Port Arthur
 7/28 Es
 0836 WXGT 92.3 OH Columbus
 ms
 0859 WKYN 89.7 TN Chattanooga
 7/29 Es
 1229 WJPR 88.7 FL Jacksonville
 1403 WMEV 93.9 VA Marion
 1414 WRAS 88.5 GA Atlanta
 1436 WZAZ 92.7 FL Green Cove Springs
 1441 WHJX 101.5 GA Brunswick
 1448 WATA 93.3 GA St. Marys
 14449 WKQL 96.9 FL Jacksonville
 1453 WMTM 93.9 GA Moultrie
 1500 WOKF 92.5 GA Folkston
 1512 WRJM 93.5 AL Geneva
 1515 WQIK 99.1 FL Jacksonville
 1519 WNFJ 99.9 FL Palatka
 cont...

NOVEMBER 1990

SOUTHERN FM DX

7/29 Es
 1524 WFSY 98.5 FL Panama City
 1528 WQPW 95.7 GA Valdosta
 1530 WTUP 106.3 GA Boston
 1538 WGOO 98.3 GA Jesup
 1540 WBBK 93.1 GA Blakely
 1541 WTNT 94.9 FL Tallahassee
 1546 GEF 109.0 FL Greenville
 1648 WKKA 92.3 FL Daytona Beach
 1551 WZLS 96.7 GA Valdosta
 1554 WOCL 105.9 FL De Land
 1557 WQWV 107.3 FL Pensacola
 1559 WPFM 107.9 FL Panama City
 1602 WJXF 95.3 GA Nashville
 1606 WMMZ 93.7 FL Ocala
 1618 WLOI 100.7 GA Brunswick
 1659 WSSP 104.1 FL Cocoa Beach
 WTRS 102.3 FL Dunelion
 1712 WUSF 89.7 FL Tampa
 1715 WYUU 92.5 FL Safety Harbor
 Equip.: TM-1001 tuner with two 150-kHz IF filters in use, Archer 6-e FM antenna at 20' with rotor. July 29 MUF hit 144 MHz with skip there as short as Mississippi.

Dyer, cont.

7/29 Es
 1724 WNLB 95.7 FL Clearwater
 1736 WBGF 93.5 FL Belle Glade
 1737 WLVE 93.9 FL Miami Beach
 1742 WRMF 97.9 FL Palm Beach
 1743 WCMQ 92.3 FL Hialeah
 1745 WMCU 89.7 FL Miami
 1747 WZTA 94.9 FL Miami Beach
 1754 WXDJ 95.7 FL Homestead
 1757 WLRN 91.3 FL Miami
 1808 WBOV 92.5 FL Key West
 7/30 Es
 1630 TG-- 88.5 Gua
 1653 TGRF 88.8 Gua Guatemala City
 1654 TGFF 88.1 Gua Guatemala City
 1708 TG-- 91.9 Gua
 7/31 Es
 1437 WVPN 88.5 WV Charleston
 1527 WKIZ 94.1 VA Yorktown
 1542 WPCR 94.9 VA Roanoke
 1552 WAMU 88.5 DC Washington
 Gus Hancock, 5615 Inwood St., Hyatts, MD 20985
 Bandscan from Emporia, VA 9/19 to 9/21: Longest catch--WWSN 107.7 OH Dayton. Total 158. (2nd best scan ever) Did not make the anticipated trip to South Hill, VA due to illness. Also scanned from New Bern, NC. Got 112 Stations (too many 100kw local + semi locals). Stayed 2 nights in each spot. Went to convention AM not a dirty word. Ohio from Emporia was fluky. All others were from DC to SC. Got CA, also from New Bern. South Hill looking better & better--WVRS 107.3, WLCQ 98.3, WGST 91.3 off air. WPGT 90.1 signs off 7 pm and WSHV 105.5 at 11 pm leaves only 12 stations within 50 miles. Several other educats 50-75 mi. away not on air.

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

10/5 tr
 0942 Houston, TX in 460
 0943 KVNE 89.5 TX Tyler 290
 0944 KDXE 95.9 TX Sulphur Springs
 0948 KJZY 99.1 TX Denton 205
 1000 KWHW 97.7 TX Rusk
 1010 KDAQ 89.9 LA Shreveport 320
 1014 KBHT 93.5 TX Crockett, ads
 10/5 tr
 1016 WCKW 92.3 LA Laplace, classic r 570
 1020 KKBQ 92.9 TX Pasadena, ad
 1030 KIVY 92.7 TX Crockett
 1034 KKBX 106.3 OK Broken Bow
 1043 KITX 95.5 OK Hugo, calls "Red River country", ex 95.3
 1049 KISS 107.3 TX Whitehouse, Kiss 107"
 1054 KZMZ 96.9 LA Alexandria, "Power 96.9" 430

Christopher S. Dunne, Box 533, 21500 Johnson St., Pembroke Pines, FL 33029

Equipment: GE Superadio II mod. w/ 150 filters, Radio Shack 6-element FM antenna, Soundesign stereo

D F E T
 X I S A

It was a veritable party on the morning of Sep 27 with a strong E opening to Central and South America. Not knowing enough Spanish, I employed help on some stations for ID, although a couple were easy to ID. I also relied on some old and new FM lists. All stations were logged 9/27/90 between 0800 & 1230 (yes, 4 1/2 hours!), all Es & SS language except the last one (Tr). Enough gab - let's get to it! Muchas gracias to: the Lord for Es/Tr; Jeff White (non-member) for some of the IDs; and also mucho thanx to Mike Dorner and all the collaborators of the WTPDA book ONDAS FM for some callsigns; + thanx to the broadcasting organizations who provided me with station lists.

Call	Freq.	Location, details	Miles	HOBS?	Notes
cu	88.1	GT Guatemala City, b (ee), R. Fabuere-tere? (OF)	1050		unid 91.5 CR? "Musica Fundacion" (JW)
TGRt	88.8?	GT. City, n, female voice (OF)	1050		cu 91.7 PN Panama City? "La Voz" (JW)
HJCF	89.1	CL Barranquilla, Caribe Estereo/CARACOL	1100		HJOJ 92.1 CL Barranquilla, Olimpica Estereo 1100
HJW	90.5	CL Cartagena, mention of Cartagena, 860w	1100		TIHB 94.3 CR San Jose, Radio Rel6j (JW, OF)(ee) 1100

CONT....

Call	Freq.	Location, details	Miles
HRLP	94.7 HO	Tegucigalpa (100w) or Olanchito (2000 w), R. América	916
cu	95.9 GT	Guat. City, R. Ranchera	1050
unid	96.1 ES	ment. El Salvador	
unid	96.3 CL	ment. Cali, no Cali @ 96.3	
HRUP4t	96.7 HO	San Pedro Sula, ment. "San Pedro",	

Most mileages are rough guesstimates. ABBREVIATIONS: (ee) = DX en estereo. OF=ONDAS. (JW) = //Jeff White or IDed by him. R. = Radio. GT = Guatemala. CL = Colombia. CR = Costa Rica. PN = Panama. HO = Honduras. ES = El Salvador. MX = Mexico. cu = call unknown.

This is DX I'd been waiting for for a long, long time. As they say in these countries, adios amigos! Setenta y tres

Matt Sittel, PO Box 21421, Raleigh, NC 27607

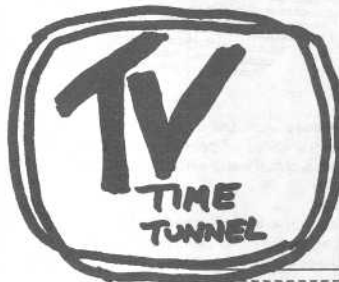
Equipment: Yamaha TX-900U modified tuner, rabbit ears, Radio Shack FM amplifier

9/1 tr			
0750 WTCB	106.7 SC	Orangeburg, "B 106"	201
0751 WJFK	106.7 VA	Manassas, calls	217
0753 WRQX	107.3 DC	Washington, "Mix107.3"	236
0759 WFSI	107.9 MD	Annapolis, calls, g	253
0801 WZCL	105.3 VA	Norfolk, "The Eagle", k156	
0804 WYAK	103.1 SC	Surfside Beach, "Y103"156	
0805 WMNA	106.3 VA	Gretna, calls	87
0807 WRXL	102.1 VA	Richmond, "XL 102"	142
0821 WFLS	93.3 VA	Fredericksburg, calls	187
0824 WHUR	96.3 DC	Washington-FM #200-	236
0826 WCDX	92.7 VA	Mechanicsville	150
0827 WHLZ	92.5 SC	Manning, over WYFL	168
0829 WGTG	91.9 MD	Takoma Park, g	240
0847 WDJY	100.3 DC	Washington	236
0856 WNAA	90.1 NC	Greensboro, "The One"	65
0901 WETA	90.9 DC	Washington, ID	236
0905 WGMS	103.5 DC	Washington, over WRQC	236
0938 WCXR	105.9 VA	Woodbridge, calls	213
0947 WASH	97.1 DC	Washington, calls	236
0950 WWIN	95.9 MD	Glen Burnie, calls	260
		-thanks to Greg Coniglio for ID'ing!-	
0954 WZZG	95.1 NC	Charlotte, over WRNS	127
9/5 tr			
0826 WDBA	107.3 PA	Du Bois, local ad	368
0829 WTUA	105.9 SC	St. Stephen, "Power106"	179
0852 WCXR	105.9 VA	Woodbridge, calls	213
9/6 tr			
0753 WJYO	107.7 FL	Mt. Dora, "Magic107.7"	513
0809 WBCC	98.3 NC	Murfreesboro, ad	101
0821 WTUA	105.9 SC	St. Stephen, calls?, s	179
0825 WHTK	99.7 SC	Port Royal, calls	259
9/10 tr			
0815 WMIT	106.9 NC	Black Mountain, calls	204
0818 WTUA	105.9 SC	St. Stephen, "Power106"	179
0821 WYAK	103.1 SC	Surfside Beach	156

FM DX in September started out on a very high note with a fantastic opening into the DC metro area. Most of the DC stations were in stereo, with WETA reading higher on the signal meter than most of my locals!! Then came the strange loggings on the 5th and 6th. They were in all by themselves!! PA and FL and essentially nothing else in! Conditions worsened and the rest of the month was poor, with some improvements noted during the last couple of days of the month, although most of the distant tropo being confined to UHF TV. Hopefully October will be a great month for classic fall tropo for all of us! 73s Matt.

unid	96.9 GT?		
unid	98.5 PN	ment. "Cadena Costatlán", "Panameña"	
unid	102.1 MX	R. Diversidad, ment. "Leon" & maybe Matamoros - XHQI??	
WMMO	98.9 FL	Orlando, rm - new	189

Writer's comment: In the annals of tv license grants, this may be one of the strangest ever. After almost a year of research there are still unanswered questions, and this article contains conjecture as to probable answers. In the event that any VUD reader can correct possible inaccuracies; please write me at the above address. It is the intent of this column to present historical fact; however in this case that was not always possible. Many thanks to VUD member Fred McCormack for his research assistance. Thanks also to retired WDAY-tv General Manager Sumner Rasmussen, current WDAY-tv President Bill Marcil, KTHI-tv Chief Engineer Roger Johnson, and retired KXJB-tv Chief Engineer Lloyd Ericson.



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

FARGO'S CHANNEL 11 --- (the mysterious origin)

THE SEEDS ARE PLANTED: The bizarre beginnings of Channel 11 in Fargo, ND rank with the conception of 'Rosemary's Baby' or the creation of the Frankenstein monster! The pieces of the puzzle are complex, as are the twists and turns of the story as it unfolds.

BUILDING BLOCKS: It is necessary to establish that top-level executives of both WDAY-tv (6) and KXJB-tv (4) were involved in the formation of the new station. WDAY-tv became the first station in the Red River Valley on June 1, 1953. Controlling interest of the channel 6 operation was in the hands of E.C. Reinecke; and operations and other ownership were intertwined with WDAY radio and the city's only daily newspaper "The Fargo Forum". Just over a year later, KXJB-tv [4] (licensed to Valley City but covering Fargo) went on the air under the guidance of John Bolter, President of the North Dakota Broadcasting Company.

MORE CORPORATE HISTORY: NDBC was a shareholder group which also owned and operated KCJB-tv (13) in Minot plus AM radio stations in Minot and Jamestown, ND. The company also had [or was obtaining] construction permits for new tv stations in Bismarck, ND and Aberdeen, SD. Although John Bolter held controlling interest in NDBC, the regional network also embraced independently owned KDIX-tv (2) in Dickinson, ND; and saw the spinoff of the Minot and Bismarck tv stations to Bolter colleagues.

APPLICATIONS

Fargo, N. D.—Marvin Kratter tr/as Fargo Tele-casting Co., vhi ch. 11 (198-204 mc); ERP 15 kw vis. 0.82 kw aur.; ant. height above average terrain 241 ft. above ground 250 ft. Estimated construction cost \$57,333, first year operating cost \$13,580, revenue \$130,000. P. O. address 521 Fifth Ave., New York 17, N. Y. Studio location to be determined. Trans. location 12th St., 2 1/2 mi. W. of city limits. Geographic coordinates 46° 53' 35" N. Lat., 96° 51' 0" W. Long. Trans. Gates, ant. Prodelin. Legal counsel Bernard Koteen, Washington, D. C. Consulting engineer Dawkins Eppy, Los Angeles. Mr. Kratter is N. Y. real estate investor and office building syndicate operator. Announced Jan. 8.

APPLICATION

Fargo, N. D.—North Dakota Bcstg. Co., vhf ch. 11 (198-204 mc); ERP 29.05 kw vis., 14.55 kw aur.; ant. height above average terrain 392 ft., above ground 416 ft. Estimated construction cost \$53,450, first year operating cost \$96,000, revenue \$120,000. P. O. address 4000 W. Main St., Fargo. Studio location Fargo. Trans. location Clay County, Minn. Geographic coordinates 46° 45' 25" N. Lat., 96° 35' 37" W. Long. Trans. Dumont, ant. RCA. Legal counsel D. F. Prince, Washington, D. C. Consulting engineer Lloyd R. Amoo, Valley City, N. D. North Dakota is licensee of KCJB-AM-TV Minot, KXJB-TV Valley City, KBMB-TV Bismarck and KSJB Jamestown, all N. D. Principal stockholders are John Bolter and E. C. Reinecke and wife.

BROADCASTING 01/14/57

BROADCASTING 07/01/57

[CONTINUES NEXT MONTH...Lots of digging uncovers little pay dirt!]

There are a lot of experimenters who scoff at Radio Shack's antenna products. "Archer" brand name has never rated high among electronic enthusiasts...and usually for good reasons. As an installer I can tell you their stuff generally is not as well-built as the major antenna brands (their UHF antenna line contains some excellent exceptions to this rule—their CR yagis are used with good results here in northern New York). What you notice right away about their VHF and "combo" models is they generally use thinner aluminum stock and cheaper plastic insulators. But with Radio Shack antenna products, certain things should be kept in mind. For instance, they are marketed by the world's largest multi-national electronics chain store, and aimed at the "do-it-yourself" crowd—most other antenna brands are built to please professional antenna installers, your professionals who also sell them because they know what does work and does not work. I think Radio Shack antennas often are designed with shipping considerations placed ahead of performance specs, with the main objective of getting them into and out of their hundreds of stores as quickly and efficiently as possible, while maintaining profitability.

But there are some Archer antennas that might be considered by TV DXers on a budget who may be away from their home systems, either as "dorm DXers" or on vacation or on a DX-pedition. They may not be quite in the same league with your Channel Master, your Winegard or your General Instrument, but they tend to be far more "transportable" and much, much cheaper. Then there's the one big advantage Radio Shack enjoys over most other sources of antenna equipment and accessories: they are as close as your local Shopping Mall. Archer model 1654 "V-185"—their best VHF-only model—normally sells for about \$60, roughly around half of what the best VHF-only antennas (for example, Channel Master's high end Crossfire or Winegard's biggest Chromestar) go for at wholesale. The V-185 is often down to around \$50 when they have one of their seasonal promotional sales. At one of their "as-is, where-is" sales they might be even a few bucks less if you shop carefully.

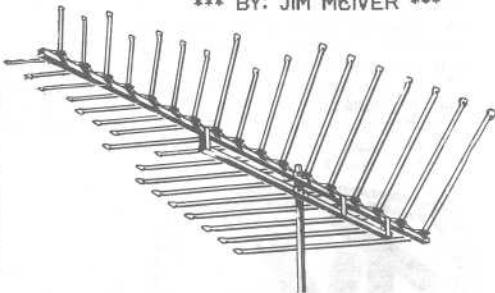
A (non-DXer) friend installed one of these VHF-only models as a "back-up" (together with a coaxial A/B switch) for his cable-TV service, which seems to go down for a day every time it rains. (Want something more reliable than cable? The answer is TVRO.). He at least wanted to be able to watch his local (ch 7) and semi-locals (mostly Canadians from Kingston, Ont., and we can get some Syracuse NY) when he loses the cable feed. Poor devil even bought a Radio Shack rotor and aluminum mast sections, neither of which I could ever recommend. He had wanted to buy one of what we call their "All-channel Football Season specials," the promotional piece of junk that RS hauls out every year (it looks like it could be out-performed by four plastic coat hangers in series). I'm glad he bought the V-185. Much to my own surprise, the antenna does a pretty fair job on the channel 2 - 13 range.

Nothing new or different about the basic design of this antenna. It's a pretty simple antenna concept, based on a variation of the log-periodic (LPDA) principle. The V-185 log antenna design is a driven-element array consisting of seventeen sets of dipole elements (usually, the more elements, the more gain—if proper boom length is observed) fed in parallel using "criss-cross" (transposed) feed line. Each set of dipoles is designed to be electrically resonant to the wavelengths of a portion of the 54 to 108 and 174 to 216 MHz ranges; in other words, TV channels 2 - 6 and the FM broadcast range, and TV channels 7 - 13. This antenna is entirely composed of driven elements—no directors or reflectors as would be found on the best high-performance wide band VHF antennas. The variation is the multi-mode "vee" design, which was first widely used by several manufacturers in the late 60's. Most larger manufacturers of the time, such as Jerrold, RMS, JFD, Antenna Craft, eventually even Channel Master, offered multimoded vee logs—this design had the flat frequency response required for reliable color subcarrier reception, pretty important in the new color TVs in that era.

I had a chance to get a quick look at this antenna in operation here. As expected, the forward gain, nulls, and front-to-back performance were nowhere near the equal of, say, a Channel Master. Also this antenna is about 13-and-a-half-foot long, which is a tad on the short side for what the optimum for this design should be. But the antenna did a surprisingly good job, especially on high band (ch 7 - 13) range. While the nulls were poor to practically non-existent and front-to-back performance is very bad (true of all vee LPDA types) forward gain on high band was decent, all things being considered. A "conservative guesstimate" — this antenna averages close to 7.5 dB over a dipole on highband. Not the best for weak-signal performance—but it beats rabbit ears or ribbon line dipoles by a wide margin, and is easily better than many smaller log-yagis and combo antennas of the same or smaller size. The lowband performance is nothing special though. Average gain in the 54 - 108 MHz range, again a guesstimate, would appear to be around 4.5 dB, and there seemed to be a definite "roll-off" at ch 2. I did not have a chance to check out this antenna's response on the FM band—but any small FM log yagi (including Archer's own 15-1636) would outperform this wideband design.

In summary, major advantage of the V-185 is its transportability. It is fairly cheap for the moderate gain and wideband coverage involved—and it might serve DXers well as a "search" antenna or a back-up array for times when your main VHF TV DX antenna is not in working order. Though it does not have the nulls or back rejection needed for best DXing performance, it should outperform simple antennas such as rabbit ears or quad loops in most E-skip openings. It has what looks to be just enough gain to offer you a good sampling of signals when conditions are "up." It is hardly anything like a high-end super duper log yagi or cut-channel when it comes to weak signal performance; but in all, not too bad—for what was expected to be a mediocre antenna.

PRODUCT REVIEW
*** BY: JIM McIVER ***



From The STAFF

(CONTINUED FROM PAGE 2)

COLUMN NEWS...INTERNATIONAL NOTES, TV STATISTICS, and NORTHERN FM DX were not on hand as we go to press. We've had no word as to the status of the first two columns from their editors for many months. Ron and Bob, please take note: if we don't hear from you by the December issue deadline (November 20), we'll have to ask for new volunteers, or cancel the columns owing to apparent lack of interest.

A BRITISH SUPER-ANTENNA?...Longtime WTFDAer John Sulak has sent word about what sounds like a very interesting FM antenna design--although it almost sounds too good to be true. Ron Smith Aerials of Luton, ENGLAND is marketing a model with claimed specs of 19.2 dB forward gain, with 38.6 dB front-to-back ratio, 15.0 degree "acceptor angle" (beamwidth), 134 inches (3.4 metres) long, with three levels of directors, a "round loop dipole" and what seems to be a some type of screen reflector on the rear of the boom. Height of the complex array is about 33 inches (about 0.84 metre). There IS a North American distributor for this highly unusual array, NAIM AUDIO North America, Inc., 1748 N. Sedewich St., Chicago IL 60614. Offhand, the claimed specs seem a bit "sweet," (especially that gain figure!). Most antennas are measured against a half-wave reference dipole under carefully controlled conditions, but the English company may be using an isotropic equivalent, which inflates forward gain by more than 2 dB. Thanks, John, for whetting our curiosity! On paper at least, this array sounds like it would outperform a stack of Stereo Probe 9's! We are trying to get more information about this one, and a report may appear in an upcoming issue.

SO LONG, AND THANKS FOR ALL THE PLUGS...We've got to thank some very nice folks for promoting WTFDA in print recent weeks. Member Karl Zuk, in his October "American Bandscan" column in MONITORING TIMES, mentions the club and the wave of enthusiasm for homebrew selectivity improvements fostered by Bill Nienajady's work with filters as reported in the VUD. POPULAR COMMUNICATIONS' November issue carries a recommendation on WTFDA in their "Mailbag" section. MT and POP'COMM are the only wide-circulation professional magazines featuring monthly coverage of shortwave DXing, scanners, specialty monitoring, and personal communications. You can find them at your local bookstore, usually next to the ham, audio, and computer magazines. Two radio hobby publications have also carried recent mention of WTFDA. THE LINK, a VHF amateur radio magazine, carried a piece on WTFDA and DXing after seeing a television news story about a meteorologist's TV DX hobby; and the National Radio Club's DX NEWS, considered by many to be one of the best DX hobby publications (NRC's specialty is primarily the mediumwave AM broadcast band--and they've been publishing since 1933!), carried a mention of WTFDA in their FM column. These publications certainly must have a large and very enthusiastic readership, going by the small flood of requests for information on the club lately!