

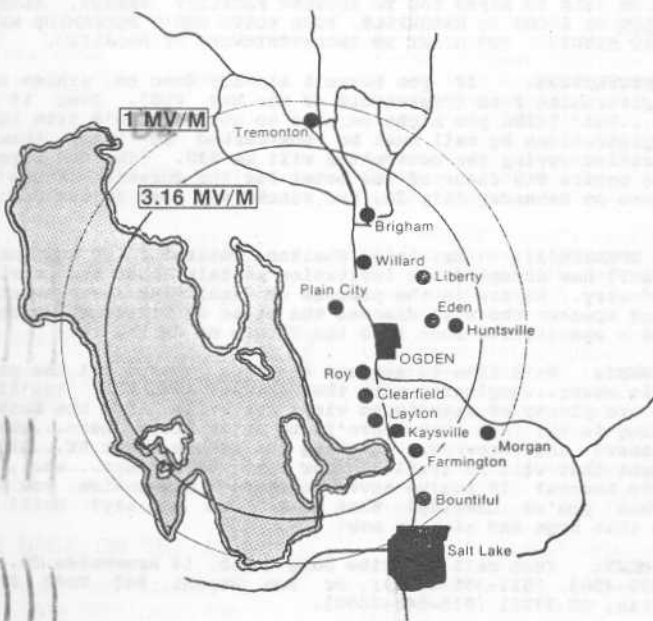
# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JUNE 1993

## KJQ★FM

KJQN, FM - OGDEN  
SGS BROADCASTING OF UTAH INC.



WORLDWIDE TV-FM DX ASSOCIATION

POST OFFICE BOX 514-BUFFALO, N.Y. 14205-0514-U.S.A.

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first class mail

11/93  
WILLIAM N NOLLMAN  
35 NYE ROAD  
GLASTONBURY CT 06033





# Nashville

1993

## CONVENTION NEWS UPDATE

**DATES: FRIDAY, SATURDAY AND SUNDAY, JULY 23, 24 and 25.**

**GENERAL INFO:** Although this is being written just a few days after you received your May VUD, several members have already responded. All those we've heard from so far will be staying at the Convention HQ hotel. It's always risky to estimate attendance, but an educated guess at this early date puts the tally at about 30...give or take a few.

**HOTEL INFO:** As mentioned previously, the Days Inn Central will be our host hotel. As you read this you'll still have a few days to lock in a reservation at the \$45 room rate (up to four per room for the same price). After June 15 you may be subject to a higher rate or non-availability of rooms. To make last minute reservations call toll free: 1-800-251-3038. Be sure to mention "DX" to get the quoted rate. **IF YOU ARE NOT ABLE TO COMMIT TO A RESERVATION PRIOR TO THE DEADLINE THERE MAY STILL BE ROOMS AVAILABLE AT THE DAYS INN CENTRAL. IF NOT, THEY SHOULD BE ABLE TO REFER YOU TO ANOTHER FACILITY NEARBY. ALTHOUGH THERE ARE A LOT OF ROOMS IN NASHVILLE, YOUR HOSTS DON'T RECOMMEND WAITING UNTIL THE LAST MINUTE. YOU MIGHT BE INCONVENIENCED BY DELAYING.**

**PRE-REGISTRATION:** If you haven't already done so, please complete the pre-registration form (centerfold of the May VUD). Even if you can't commit...but THINK you might be able to attend...we'd like to know. \$25 pre-registrations by mail must be postmarked no later than July 15. Registration during the convention will be \$30. [The fee pays for rental of the entire 9th floor of the hotel for the duration of the Convention, a banquet on Saturday July 24, and snacks and soft drinks for all three days.]

**GUEST SPEAKER(S):** Mr. Aaron Shelton, retired Chief Engineer of WSM-tv (now WSMV) has accepted our invitation to talk about the early days of the industry. We are in the process of finalizing arrangements to obtain a second speaker who will discuss the state of broadcasting today as well as take a speculative look into the future of FM and TV.

**UNDECIDED?:** We'd like to suggest that you re-read all the pre-publicity for this event...beginning with the February 1993 VUD. You'll find that there are plenty of reasons to visit Nashville. But the best reason for attending is the fact that there'll be other DXers here...sharing their experiences and knowhow...shooting the breeze about DX...DXing with the equipment that will be available for convention-goers...etc., etc.! It's a DXer's heaven! If you've never attended a Convention, you simply don't know what you're missing! What more can we say? Still undecided? Follow that urge and sign up now!

**QUESTIONS?:** Just call or write Doug Smith, 14 Brookside Ct., Nashville, TN 37209-4503 (615-356-8305); or Tom Bryant, 849 Todd Preis Drive, Nashville, TN 37221 (615-646-2000).

**NEXT MONTH:** Just in time for your trip to "Music City USA"...detailed instructions on how to get to the Days Inn Central. You'll appreciate the convenience of your Nashville Convention HQ.

## TV News

Doug Smith  
14 Brookside Court  
Nashville, TN 37209

615-356-8305  
CIS 72777,3143



Abbreviations used in this column:  
ERP= Effective Radiated Power, in kilowatts  
HAAT= Height Above Average Terrain, in meters  
AAT= Above Average Terrain  
AG= Above Ground  
ASL= Above Sea Level  
nc= no change  
TL= Transmitter (and tower) Location  
CP= Construction Permit  
MP= Modification Permit (modification of CP)  
\*= Non-commercial  
CRTC= Canadian Radio-TV Commission  
DBS= Direct Broadcast Satellite

## APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
AR	26	500	238	KRZB-TV	Hot Spgs.
(was 245kW/287m)					
PR	11	316	346	WLII	Caguas
(was 200kW/360m)					
PR	9	182	837	WSUR-TV	Ponce
(was 58.9kW/846m)					

## CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CO	8	233	728	KTSC	Pueblo
(TL:38°44'41"N, 104°51'38"W Cheyenne Mountain, home of KKTU-11 and KRDO-13. Was 316kW/372m.)					

## CHANGES TO THE TABLE OF ALLOCATIONS

Albion, NE:	delete 8
	add 18
Lincoln, NE:	add 8
Fredericksted, VI:	add 66

## STATION BACK ON THE AIR

WNTZ-48 Natchez, MS: seen by Jeff Kruszka in late April with Fox programming. This may be a satellite of KADN-15.

## NEW STATIONS ON THE AIR

Williamsport, PA: WILF 53--:  
12.2kW, 222m AAT  
TL 41°11'57"N, 77°07'38"W  
Roughly 8km NW of downtown  
Williamsport.

Calls noticed by Dave Nieman  
on WOLF/WVLF ID in early May.  
Fox affiliate, satellite of  
WOLF-38 Scranton.

Chippewa Falls, WI: WEUX 48z:

60.3kW, 98m AAT  
TL 44°52'36"N, 91°18'22"W  
Just east of Chippewa Falls, about  
12km NE of Eau Claire.

Seen by Jeff Kadet on March  
28. Fox affiliate, satellite  
of WLAX-25 La Crosse.

## OTHER STUFF

Wow, some real live classified legals! AM will probably be getting a lot more FCC attention over the next few months, as applications are now being accepted for 1600-1700kHz stations, but it looks like the upholding of the must-carry rules will spur some TV activity too.

The Nebraska changes above reflect the move of KCAN-8 from Albion to Lincoln. While I haven't seen anything official, I'd think a change of tower location will also be required as KCAN's current site near Columbus doesn't put a Grade A signal into Lincoln.

A commission appeal for extra funding to enforce the Cable Act has been denied by Congress.

Multiple cable system owner TCI has threatened to drop ABC/CBS/NBC affiliates if they continue to insist on high retransmission-consent payments. They claim a customer survey shows that subscribers support their position-- showing that 57% of subscribers say cable systems should drop network affiliates if consent payments required an increase in rates. But the same survey showed that 59% would cancel their subscription if one or more networks weren't carried.

The "Vertical Interval Reference" signal, formerly used to allow TVs to automatically adjust color, has been obsoleted. The Commission has agreed to allow stations to use Line 19, formerly used for the "VIR", to transmit the new ghost-cancelling reference signal. Stations which use the VIR

signal internally (often, for "on the fly" transmitter adjustments) may move it to some other line between 10 and 16. Also, stations may now use Line 21, previously available only for closed-captioning, to transmit other data signals. Closed-captioning continues to take precedence; any other data use that would interfere with captioning is not permitted.

(see TECHNICAL PRIMER for more info on the "VIR")

U.S. District Court in Las Vegas has reversed a FCC decision to fine KVBC-3 Las Vegas and KRNW-4 Reno. The stations were fined for airing advertising for gambling casinos. Such ads are legal in Nevada, where casinos are legal, but the Commission cited the stations because they have some coverage in parts of California and Utah, where casino advertising is not permitted. The court said it finds "... it difficult to accept that commercials about legalized casino gambling located in Nevada pose any real danger to the public policies of California and Utah."

Commissioner Sherrie Marshall has resigned and taken a position with a Los Angeles entertainment law firm.

The Commission has proposed a number of rule changes for LPTVs. Proposals would make it easier to apply for a change in facilities or to show that terrain shielding would permit allocating a station where it wouldn't otherwise be possible. And, maybe more important to DXers, they've proposed to assign regular 4-letter call signs rather than the letter-number combinations currently used.

As if the freeze on new TV applications wasn't bad enough (for this columnist -- or good enough for DXers!)... FCC Chairman James Quello has promised to investigate the possibility of a freeze on new FM stations. Unlike the TV freeze, which has been imposed to ensure adequate available spectrum for HDTV, the proposed FM freeze would be strictly for economic reasons, to protect existing stations from competition.

Another item that's really more radio than TV but... An uplink failure at ABC's Satellite Music Networks, a facility that provides automated satellite-fed radio programming, caused about

1,000 radio stations to go silent for five minutes on May 13.

It's rumored that Spanish-language network Univision is interested in buying WGBO-66 Chicago. Their current affiliate there, WCUI-26, carries only part of the Univision schedule.

Macrovision, the firm which produces the anti-copying system for rental videocassettes, has announced a system for pay-per-view cable and DBS movies.

Virtual Vision of suburban Seattle has developed an interesting new device. A five-ounce visor contains a color projection TV; the wearer sees a TV image projected in mid-air. The unit was developed as a way for people to watch TV while walking down the street or attending a live sporting event, but professional video users may also find it useful for getting unusual shots where they can't see the viewfinder.

DBS firm DirecTV has signed programming contracts with 13 popular cable services. Among others, CNN, TBS, USA, and TNN will be carried.

## LPTV WATCH

Call	St	City	programming
W22BF	AL	Decatur	TBN
W57BV	AL	Florence	TBN
W67CO	AL	Huntsville	TBN
W46BU	AL	Tuscaloosa	TBN
K67EO	AR	Bentonville	KFSM-5 (CBS)
K62DQ	AR	Fayetteville	KFSM-5 (CBS)
W56CD	GA	Rome	WTLK-14
W28AN	NC	Franklin	WUNF-33 (PBS)
W68BK	NC	Raleigh	"WAUG" educ.
W68BI	VA	Driver	ChA - OFF

This month courtesy of Ed Phelps and Stephen West. Note there's also a WUNF relay on 56 (W56AG) in Franklin, NC; the two have different tower sites, and presumably serve different sides of a mountain. It's not currently known whether the Alabama TBNS are fed directly off the satellite, or via WTJP-60 Gadsden.

## FORUM

Fred McCormack, St. Paul MN:

Fred has the answer to my, WHBL-28 question from the April VUD-- "The construction permit for WHBL-28, Sheboygan was cancelled 03/30/87 according to the 04/13/87 Addenda to Television & Cable

Factbook." He says there was no record of this station having ever gone on the air. I probably saw them testing under their CP. Fred also relayed the report of Jeff Kadet seeing WEUX-48.

Rod Luoma, Livonia, MI:

(sorry if I misspelled your last name Rod! Lost the envelope you mailed your letter in..)

Rod is with Technical Operations at WJBK-2 Detroit. He writes: "On April 7, 1993, WJBK-TV ch. 2 in Detroit began broadcasting with a new 100% solid state transmitter built by Larcam of Mississauga, Ontario, Canada. This new unit was purchased as part of a program to enable radiation of a circularly polarized signal when the main antenna is replaced in June of this year."

He goes on to mention that the project will cost \$1.2million. WJBK is willing to spend that money in hopes of improving reception, not only at the 38% of Detroit-area homes that don't have cable, but on the un-cabled second and third TVs in homes that do have cable TV on their first sets. The monopole and rabbit-ears antennas frequently used by urban viewers respond better to vertically-polarized signals than to the horizontally-polarized signals broadcast by most stations.

"The technical flow of events is as follows, starting on May 24. First, the single bay standby antenna side-mounted at the 800' level will be taken down and replaced by a new Dielectric TF2CL two-bay batwing. Also the 35 year old transmission line will be replaced with new 3-1/8" hardline. After testing, we will begin broadcasting with the standby at its maximum capability of 50kW ERP. Then we can proceed with the main antenna replacement... A gin pole side mounted to the tower near the top will be used to lift the current antenna out of its mount, swing it out, and lower it to the ground, with a winch supplying the power."

"The new Dielectric TDM-7A2, weighing 9.9 tons, will be shipped from New Jersey in two halves and welded together on site, forming a seven-bay antenna which will then be winched to the tower top, set into the mounting collar, aligned vertically and locked into position. Two transmission lines

will feed the antenna, one line powering 3 bays and the other 4 bays,... The new antenna requires 44kW of transmitter power to develop 100kW circular ERP, whereas the old RCA required 22.5kW transmitter power to provide 100kW ERP horizontal." (thus the need for a new transmitter)

"One of the two RCA TT30FL transmitters will be retained as a standby unit while the other will be sold,... One of our previous transmitters ended up going to KXMA ch.2 in Dickinson, ND some years ago."

"Well, the bottom line is that if the station gains one rating point as a result of this expenditure, it will pay for itself in one year! We at WJBK-TV certainly hope so."

Well, programming makes a much bigger difference than circular polarization, but... my impression, based on comparing the WISC-TV and circularly-polarized WSMV, both from receiving sites very close to the tower, is that circular polarization indeed does make a BIG difference in signal quality for nearby viewers with poor antennas. I think WJBK will be pleased with the new antenna-- but local DXers may not be quite so happy!

Matt Sittel, Tallahassee, FL:

Matt passed along two clippings from the April 17 Tallahassee Democrat. In one, rumors of financial trouble at the Home Shopping Network. HSN reported a \$27million loss in the quarter ending Feb. 28; a firm that lends money to some HSN clothing suppliers has suspended credit; and another firm which holds a controlling interest in HSN decided not to buy up the rest of the company's stock. HSN's president and CEO, Gerry Hogan, says the loss results from a change in marketing strategy, the company is not in trouble, and the company has returned to profitability.

Also in the financial department, WTXL-27 Tallahassee has been sold to a Virginia company, Media Venture Management. Phillips Credit Corp. of New York had attempted to foreclose on WTXL after previous owners ET Broadcasting failed to repay a 1991 loan. No changes in programming are expected.



Stephen West, Glen Mills, PA:

(Thanks for taking over ETV; looks good!)

Stephen sent a few random notes: "WTMW-14 in Arlington, VA is still testing. Ch. 68 in Driver, Va. was not on the air, and no longer listed in the Va. Beach newspapers. WVIR-29 boasts being the most powerful TV station in Virginia with five million watts. Locally the LPTV-14 in Middletown, DE is now calling itself "Family Vision" and no longer IDs with WGCB-49. WGTW-48 in Philly seems to be transmitting on Ch. 47-1/2. Ch. 63 Richmond, Va is still off the air."

The Driver LPTV is W68BI, formerly Channel America. An article in Broadcasting Magazine indicated that Channel America plans to return to the air soon - whether that will actually happen is anyone's guess. The WVIR-29 item would indicate that their CP is now on; they had been 1290kW. Regarding WGTW-48, I wonder if their lower-sideband filter is screwed up? If so, I'd think WNJU-47 would be complaining! Finally, with regard to WVRN-63 in Richmond, they're no longer in my database-- I believe WRLH-35 bought them & returned the channel 63 license to the FCC for cancellation.

Stephen also sent a copy of the TV section of the Raleigh, NC *News & Observer* for April 8. It indicates that WYDO-14 does indeed duplicate WFXI-8 for most of its broadcast schedule, but there are a few midday religious programs on WYDO while WFXI is running cartoons & dramas. Also, there's a listing for a "WAUG-68", which appears to be an educational station, with such exciting programming as "Library Management", "German 2", "Staff Development", and "Introduction to Interactive Multimedia". Presumably this is W68BK, licensed to St. Augustine's College.

Dave Sinclair, Vancouver BC:

Dave forwards ongoing coverage of the CRTC's hearings on the future of Canadian television, from the *Globe & Mail*. Largely, the debate amounts to Canadian cable systems requesting relief from rate restrictions, and permission to charge subscribers for the installation of digital-compression equipment, so they can compete with

U.S.-based direct broadcast satellites (DBS).

Several witnesses, including ones representing the Consumers Association of Canada and the Ontario provincial government, have suggested relaxing Canadian content restrictions on cable systems. The Ontario Ministry of Economic Development suggests that, when all subscribers have addressable decoders, each subscriber should receive one basic all-Canadian package of services; other services, including U.S.-based ones, would be individually available.

Another witness, the president of the Association of Television Producers and Directors, said the CRTC should give up on Canadian content regulations on private broadcasters altogether, and establish a government-owned public broadcasting service. This new service would be funded by \$1.2 billion of public funds currently held by Telefilm Canada and provincial agencies, and by a \$1.7 billion tax on cable TV services.

Meanwhile, a representative of one of the "deathstars", DBS executive Jim Ramo, denied that his U.S.-based DBS system would wipe out cable and Canadian broadcasting. One of his DirecTV's Canadian executives said "A new DirecTV subscriber does not equal a cable television disconnection."

Bill Nienajadly, Clifton NJ:

Two items from the NY Post.. First, Fox and multiple cable system operator TCI have agreed to start a cable entertainment channel based on Fox network programs. The channel is expected to start later this year or early in 1994.

The article doesn't say so, but I suspect this is part of Fox and TCI's answer to the new retransmission-consent regulations in the Cable Act; Fox had previously said, on behalf of its affiliates, that it would accept a second cable channel in lieu of cash payments for retransmission consent. The article does say that, out of the \$30 million TCI will pay Fox for the programming, Fox will send either 7.5 cents per month per subscriber, or 5 cents per month plus 25% of the channel's profit.

Also... it happened again... While workers in another room were editing a tape of a couple having sex, for an upcoming talk show, someone punched the wrong button & it got on the air... This time, WXYZ-7 Detroit was the embarrassed party. At least this time, it happened during a soap opera. As someone speculated awhile back, sooner or later this is going to happen on TBN!

## TECHNICAL PRIMER: VERTICAL INTERVAL SIGNALS

In case the references to "VIR" at the head of this article are a little confusing, here's some technical information on the subject.

A television picture is formed by an electron beam moving from left to right across the screen. When the beam reaches the right edge, it snaps back to the left & moves down. When it reaches the bottom right of the screen, it not only snaps left, but also snaps back to the top.

To accomplish this, two sets of electromagnets are fastened to the neck of the picture tube. One moves the beam up & down, the other left & right. A "sawtooth" signal is fed to each magnet -- this is a signal that starts at a low current, and gradually increases until the right (or bottom) edge of the screen is reached. It then snaps back to a low current to start the next line (or screen).

But you can't turn off this current instantly-- instead, you have to decrease it as quickly as possible. This action causes the electron beam to move backwards across the screen, a process that could cause spurious bits of light to appear over the top of the picture. To avoid this, the FCC requires that TV stations transmit a "blacker-than-black" picture during this period.

As it turns out, the synchronizing signals used to make sure the electron beam in your TV is in step with the one in the camera are also "blacker-than-black". So, this beam-return interval is a good time to transmit these synchronizing signals.

In the early days of TV, it took a long time for sets to return the beam to the top of the picture. The FCC decided to require stations

to transmit 21 lines of black at the top of each picture, thus allowing the TV 21 lines to get the beam back to the top of the screen. These 21 lines are called the "vertical synchronizing interval", or, more commonly, the "vertical interval".

Today, TVs are much better; it takes something like 10 lines to get the beam back. Rather than leave the other 11 lines blank, the FCC decided to authorize stations to transmit specific signals on these 11 lines. Some of the things transmitted include closed-captioning, teletext, ghost-cancelling signals, and even little test patterns.

By misadjusting your TV's vertical hold control, you can often see the "vertical interval". This is the black horizontal bar across your screen; you'll probably see little white lines, dashes, or multi-color patterns towards the bottom of this bar. These are the vertical interval signals.

By the way, you might ask why the horizontal interval isn't also used. Mainly, because it's so short-- a small fraction of a line. Also, because small synchronizing errors, as are often introduced by videotape recorders, will frequently make the horizontal interval visible briefly. Still, it is used for the horizontal synchronizing signal, and for the "burst" used to synchronize color TVs. There had been some talk of using the horizontal interval to carry audio signals, but I believe that was found unworkable.

## CONVENTION:

Tom's articles pretty much say it all. Please do send in the registration form as soon as possible. Again, if you plan to come but can't positively commit at this time, let Tom or myself know anyway; the more advance information we have, the better.

## DX etc:

Some tropo enhancements, and our normal scatter is back. Some Es has been reported, and I'm certainly keeping the TV primed & ready!

73 Doug



PREPARED FOR THE VUD BY TOM BRYANT, 849  
TODD PREIS DR., NASHVILLE, TN 37221. AIPA  
NEWSLETTER COURTESY OF WFOAer BILL ECKBERG.

IF YOU'VE EVER WONDERED WHAT SORT OF FORUM  
TV DXers HAD BEFORE THE WTFDA WAS FOUNDED  
IN 1968, YOU'RE ABOUT TO FIND OUT. OUR  
CLUB'S PREDECESSOR WAS THE "AMERICAN IONOS-  
PHERIC PROPAGATION ASSOCIATION"; AND HERE'S  
A COPY OF THE CLUB NEWSLETTER FOR MAY 1960.

\*\*\* FCC NEWS

A I P A

May 6, 1960

FCC Grants.

Ch 2 Vermillion, S.D. .167K-.084K  
Ch 2 (Ed.) State of S.D.Univ.  
Ch 8 Jonesboro, Ark.  
Ch 9 Eugege, Ore.  
Ch 9 Alpena, Mich.  
Ch 11 Santa Fe, N.Mex.  
Ch 11 Grand Isl., Neb.  
Ch 13 Hilo, Hawaii (Lic to KHVH-TV)  
Ch 19 Kansas City, Mo. 17.8 -9.77

Applications to FCC

Ch 12 Wilmington, Del. There are  
many applications in for  
Ch 12 in Wilmington, Del...  
Ch 25 Eau Claire, Wis.

New are.. KRET-TV (Ed.) Richardson  
Texas, on Ch 23.

WSLA Selma, Ala on Ch8.

CALL CHANGES ETC.

WXGA-TV ch 8 Waycross, Ga. from  
WDSS-TV..  
WEGA-TV ch 9 Savannah, Ga. fr WXGA  
WFEN-TV ch 32 in Clearwater, Fla.  
KWCS-TV ch 18 in Ogden, Utah.

Changes..

WGTV ch 8 in Athens, Ga.  
Charleston to have a new ch 4.  
WTVM Columbus, Ga. ch 28 to ch 9  
WBTW ch 8 in Florence, S.C. to ch 13  
WRBL ch 4 Columbus, Ga. to ch 3.

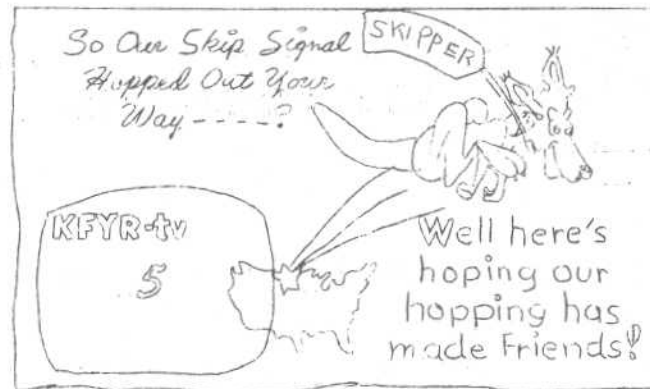
MIS'L NEWS.

WRBL-TV heard here in Bflo, N.Y. via Aurora 4/29/60 on  
ch 3...changed from ch 4..  
KLOR-TV ch 11 Provo, Utah is off the air temp-- Tech difficulties.  
A majority of "NOT ON AIR" UHF permittics has asked the FCC to keep  
their construction permits alive hoping conditions will improve  
in the UHF line to allow them to build. KTRX(TV) Konnowick, Wash.  
has cancelled their lic. and permit.  
word from Dennis Smith is that apparently K-VUE ch 40 in Sacramento,  
Calif. has gone off the air. Also KFRE-TV ch 12 Fresno, Cal. is de-  
finitely going to UHF. (word is that that area will all go UHF)  
Five appli's are in for ch 5 station in Edmonton, Alta. Canada. and  
two in for ch 3 in Prince George, B.C. Canada.  
A new TV station asked for in Sturgen Falls, Ont. on ch 7 (Fr. Station)  
The Toronto Telegram, Evening Post will get the new Ch 9 there.  
CFCL-TV to get a power boost 18.5-9.25 to now 100Kw- 50Kw.  
Add CFCY-TV1 ch 7 in New Glasgow, N.S. Canada and CJCN-TV ch 4 in  
Grand Falls, N.Fld. Can.  
CFCF-TV ch 12 Montreal, Que. plans their start on Jan. 1961 with a  
power of 325Kw- 160Kw.  
KFVS-TV Cape Girardeau, Mo. has a new TV Tower being built 1,676 feet  
high, which is said will be the tallest man made structure in world.  
Johnson, Pa. has asked FCC for another VHF there, on ch 3 or ch 8.  
New York8s WRCA-TV wants the call WNBC-TV returned to them.....

DX-HORIZONS has now perfected the 1st all Ampere Receiver with truly  
fantastic gain of a high order. starting in the July publication  
there will be a series of articles on complete modification details  
so that any DXer can enjoy 300 miles reception on poor days, and almost  
unlimited reception on good days.

NEW MEMBER is James Hughes of Saginaw, Mich. James is with the UHF  
station WKNX-TV ch 57. He is also interested in FM-DX so Bryan  
Rawlings and Phil Jacobs will be hearing from him. Our Tom Hildley  
is responsible for DXer Hughes' membership into the AIPA.

Art Collins.



Western  
DX  
May 1960

The above verie card was sent to me a couple of years ago from KFYR-5  
in Bismark, North Dakota..and I thought it was so cute and different,  
that I thought I'd draw it..or try to anyway..for those of you who do  
not as yet have one to add to your collection.

A card in from Gordon Simkin says that his other evening, was meant  
to mean..Last evening..or April 13...I'm only teasing you Gordon..Hope  
you don't mind all of this. Also logged..April 22 KFDX-3 by me..new,  
and # 61 logged. KTWO-2 tropes. April 24, aurora 2-13 with no ID's.  
April 26, KTVI-2 by Es and one texas -2. QRM-3 WSM-4 possibly. Thanks  
for the card.

Morris Foote from Middleton, Idaho writes that he really got a  
thrill the other day...as he received a good me on channel 13 with a  
RTMA type TP with of all things...no call letters. Well, cross your  
fingers and hope that next time, they will have a call slide on.  
March. 31, chs. 4-5-6 unid by aurora dx. April 1, chs. 2-3-4-5-6- by  
aurora dx. April 13, unid ch. 13 by me. KARK-4 by Es /KNAC-5 by Es/  
unid ch. 6 by Es.

A most appreciated letter arrived from our good friend and fellow  
dxe...Ron Hilding of Salt Lake City, Utah...Ron says that he sent me  
his Xmas log and it should have been in the Feb. bulletin...Golly Ron,  
I didn't receive it at all...in fact, I can't remember the last time I  
heard from you...Ron reports that KPHO-5 is going on Maximum power all  
most anytime now..with programs from 9am Sunday thru Friday and 10:45  
am on Sat...MST. Ron entered (or someone entered it for him?) his car  
in the Southwestern Rod and Custom show..and it won a 32" trophy. Sure  
am sorry about the lost loggings, Ron...hope you can write again soon.

The only DX wise news I have from up here in Washington, is...Lots  
and Lots of Aurora this last part of April...almost every day it seems.  
But today...May 1st...I finally logged my first Es of the season.  
It only lasted about 9 minutes...but gee it was good to see again.  
Dear old KTWO-2 in Casper, Wyo. was on with their T.P. So I hope that  
this means Es will start appearing from here on in.

BEST OF DX TO ALL OF YOU IN THE COMING MONTH..

DEE JOHNSON  
146 Maddock Pl.  
Longview, Wash.

MARK YOUR  
CALENDAR  
NOW!



Nashville  
1960

# NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NY 14221

For DXers in: MA, NH, VT, CT, MA, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR, AK, Canada  
JUNE 1993 → DEADLINE: The 5th LOG-EUTOFF: 2 months from postmark

Another small column this month, as conditions have been slow in most areas for the spring. There has not been any significant spring tropo reported in the northern FM reporting area. The first half of May has been slow as far as the skip season getting under way, but there have been signs of skip. No report of any FM skip heard here, yet. Tropo has picked up somewhat as well. Let's hear from you!....

## DAVE NIEMAN-12284 NICE ROAD-AKRON, NEW YORK 14001-9529

Equipment: Carver TX-11a tuner, Channel Master Stereo Probe 9 at 36 feet AGL on crankup tower, (826 feet ASL). Alliance HD-73 rotor and RG-11 coax.  
New loggings are underlined. New call (K K K K). New propagation mode W W W W.

### APRIL 1993 DX

6 Tropo  
14:14 CIRV 88.9 ON Toronto, call, cs 65  
ex. 88.7

Another good DX frequency lost. Dave

## DAVE NIEMAN - HO STAGEH - ROAD-ROCK CITY, NEW YORK

Equipment: Carver TX-11 tuner IF filter modified. Antennacraft FM-10, at 25 feet AGL, (2415 feet ASL). Winegard FT-7600 variable FM trap for 95.7 MHz, RG-6 coax and Radio Shack rotor.  
New loggings are underlined. New call (K K K K). New propagation mode W W W W.

### APRIL 1993 DX

4 Troposcatter  
13:24 WGLE 90.7 OH Lima, ID with WCTE 91.3, cs 308  
10 tropo  
10:00 CIRV 88.9 ON Toronto, call, cs 123  
ex. 88.7  
24 Troposcatter  
08:13 WAPP 105.5 VA Berryville, call, cs 202  
May 1993 DX  
1 Tropo  
03:15 WGLI 92.3 PA Riverside, "Wiggle" k S, WRRN Warren PA off 116  
08:19 WNCO 101.3 OH Ashland, call, ks 217  
09:54 WQHG 106.3 PA Huntingdon, call+ "FM 106.3", rms, WQRM Smethport PA off 109  
10:32 WIOV 105.1 PA Ephrata, call, ks 175

### MAY 1993 DX

2 Tropo  
05:21 WYMK 107.7 PA Tunkhannock, "Y 107.7" rps, over WNUC Wethersfield NY 128  
06:03 WGGY 101.3 PA Scranton, call+ "Froggy", ks, ex WGBI 146  
06:18 WKRZ 98.5 PA Wilkes-Barre, "98.5 KRZ" rps 148  
06:23 WQHT 97.1 NY New York, "Hot 97" rps 248  
06:33 WUNS 96.3 PA Lewisburg, "U 96.3" - call rms 110  
06:55 WMBE 95.5 PA Salladasburg, call, rms 85  
07:16 WMGS 92.9 PA Scranton, "Magic 92.9" s 146  
09:00 WRAC 107.9 PA Williamsport, ID, s 96  
09:18 WEZX 106.9 PA Scranton, "Rock 107", local ads, rps 146

Pick up a Winegard FT-7600 2 stage variable FM trap from Rich Wertman. Installed it in line and adjusted both stages to WPIG 95.7 which is just down the road. It works good; we even had a little morning tropo enhancement to try it out. I also got another FT-7600 trap for the TV. Since WOLN came on the air I've been having trouble DXing channels 8, 9 & 10 because of herringbone lines. This one is also adjusted to trap 95.7 MHz. Dave

## MIKE BUGAJ - 69 SHERMAN ROAD - ENFIELD, CONNECTICUT 06082

Just a few notes here of station news. First off, WVAY 100.7 in VT has two new translators on the air that get out real well. They are W259AV-99.7 in Marlboro, VT, and W284AV 104.7 in Jamaica, VT. They 99.7 translator is 65 miles from here on Hogback Mtn. west of Brattleboro and the other is on Straton Mtn, 85 miles+. Look for these during tropo openings as I can hear them 20 mi. south of here on the north slopes of hills in the car. By the way, WVAY does ID all its translators on the hour. Killington, Vermont is now on the air on 105.3. The calls are WEBK (K105), with classic rock. WBBS-105.1 in Great Barrington, Massachusetts is now relaying WAMC 90.3 with the calls WAMQ. And WDDJ 96.9 Boston has just gone country! Since WVBF-105.7 has gone country, I wonder who will survive? And WUUU 102.5 in Rome has also gone country (WKDY) (93.5 Remsen, NY has picked up the WUUU calls and the oldies format-gc) and WKGW 104.3 Utica has gone classic rock (calls itself Kicks 104.3 and IDs as Utica-Syracuse [is this a stretch or what?]) (They have taken over the 104.7 format, which just went, you guessed it, country. It is a stretch, WKGW is poor in many parts of Syracuse-gc). I did hear the WKGW ID yesterday, but may soon change (I have heard that when 104.7 changes calls, WKGW will switch to WKFM-gc). And today I heard WOOZ-94.5 Boston (call change from WZOU-gc) call itself "the new Jammin' 94.5". Only mentioned calls around the top of the hour. No real DX here to mention (yet). Hopefully Es soon.



**DON'T FORGET TO REPORT YOUR DX!**

# NORTHERN FM DX

JUNE 1993

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

Equipment: JVC JR-S201 rec (IF mod w/3-110 filters), Magnum Dynalab Slueth, 205 amp, Probe 9 fed with RG6 at 50' AGL, crown rotor, (distances are in km's)

### MARCH 1993 DX

25 Tr  
0728 WDCZ 102.7 NY Webster, g, legal ID 231  
27 Tr  
0700 WGNB 89.3 MI Zeeland, g, USA RADIO nx "listener supported radio 89.3 WGNB Z.-G., Rps" 301  
28 Tr  
0800 WRDL 88.9 OH Ashland, legal ID, broad-casting from Ashland U. campus 468  
0900 WKTL 90.7 OH Struthers, r, polkas, Radio 91, "Good Morning NE OH & W Pa, you're listening to ETC RADIO here at 90.7 WKTL" 230

### APRIL 1993 DX

4 TrS/Tr  
0928 WAYZ 101.5 PA Waynesboro, country 101 Today's best country, Bruce Michaels DJ 437  
1000 WBTF 101.7 NY Attica, k, Country 101 Batavia Downs ad (Bruce, did you hear this, or WJER WBTF is still that, WJER is in Dover, Ohio-gc) 165  
5 Tr  
0620 WLEW 102.1 MI Bad Axe, lite rock Cruise 102 under TO local CFNY 102.1, Jon Secada 232  
8 Tr  
0803 WQED 89.3 PA Pittsburgh, APR, c, cls 299  
9 MS  
0630 WMFE 90.7 FL Orlando, "90.7 WMFE" first of many logs 1624

**PIRATE RADIO  
97.7 FM  
Panama City Beach, FL**

Spent a lot of time getting educated on the educational frequencies as you can see. Found the perfect frequency for MS. As long as 90.7 WKTL OH Struthers is not signed on. They sign on late in the morning, which gives me an opportunity to snag sporadic and shower MS. Too bad though, that not many IDs happen on a regular basis down on the educational band. Let's bring on the e skip season so I can give my dial indicator some much needed exercise. It seems to be stuck on 90.7! 73, dB

## BILL NIENAJADLY - PO BOX 2999 - CLIFTON, NEW JERSEY 07015-2999

March 93 (?) - during black out at World Trade Center, after the bomb blast, WNYC 93.9 was off. I logged WKXZ 93.9 NY Norwich 94 Kicks, 130 miles on car radio. During early/mid April 93, some tropo to Boston and Providence, heard bits and pieces of new 106.1 NY, 104.7 LI, and others. Did not officially log them. I passed advanced class and expect new ham calls-more later.  
GOODXING-Bill (Congratulations, Bill!-gc)

\* Thanks Dave Nieman, Saul Chernos, Matt Sittel, and dBruce Hall for sending logos!  
\*STATION NEWS: First, some new from Texas: add KLLI 95.9 Hooks to the list of stations gone country; they are now "Thunder 95-9" and hit country format. KKTIX Kilgore is now using the slogan "Classic Rock 96.1". KCUL Marshall is on: "Oldies 92.3 FM". Just the opposite has happened in Daingerfield: KWSK 106.9 is silent. Moving along, KISI 101.5 Malvern, AR is soft AC and "Y101.5". KWCK 99.9 Searcy, Ark. is country, and "Quick 99.9". Album rock station KLXQ 96.7 in Hot Springs, Ark. uses the slogan "Q96". Marshall, Michigan 104.9 has been heard back on the air. I do not know if they still have the same calls, I heard "104.9" slogan, and Stereo country format. WYHY 107.5 Lebanon (Nashville) is still "Y107", but goes more into a rock 40 approach. WZVX 99.7 in Palmyra, NY, just east of Rochester, is on the air, with a religious format. In Pennsylvania, 101.3 in Scranton has gone country, with the calls WGGY and a "Froggy" slogan. In the same market, 97.1 Mountaintop is now WBHT, top 40, with a "Hot 97" slogan. Thanks Doug Smith, Matt Sittel, Bob Smolarek.



WILLIAM WYLLIE - 95 PECK ST. - FRANKLIN, MASSACHUSETTS 02038-2217

MARCH 1993 DX

28 Tr  
0120 WKSS 95.7 CT Hartford, ID noted in long Disco like music "Kiss 95.7 House Mix", strong  
0135 WZBG 97.3 CT Litchfield, legal ID, noted lite rock music  
0209 WPKX 97.9 CT Enfield, "Back to back country hits, Springfield's 97.9", Kicks 97.9, have heard this one once before  
0223 WXOB? 98.7 NH Winchester, "Oldies 98.7"  
30 Tr  
0451 WZEA 102.1 NH Hampton, good but fuzzy of WAQY, "Seacoast 102", softrock?, CNN news, ID "WZEA Hampton/Newington/Newberryport"

98.1 WKQQ FM

Programming note: WKPE 104.7 Orleans, Mass. now has oldies. ID's as Oldies 104. ex-Cape 104. My receiver was a Realistic Modulaire 2200 radio, with the built in antenna. Help, I need address for: WZBG, WPKX, WXOB, WZEA, and WBEA. (My M St. Journal is outdated somewhat, but I have these: WPKX, 1655 Main St. Springfield, MA 01103, and WXOB, 13 Lamson St., Keene, NH 03431. Perhaps someone has addresses for the newer stations asked about-gc)

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

Equipment: Pioneer TX9100 tuner mod with 2 180 and 2 150 khz filters, Stereo Probe 9 at 25' AGL, CAC11 and RG6 coax, ArcherRotor used, phasing with TV antenna and a "capacitor in a box" setup.

MAY 1993 DX

6 Tr  
0817 WELL 104.9 MI Marshall, "104.9", k\$, back to the air, wonder if the same calls? 321  
8 Tr  
0015 WCBA 98.7 NY Corning, CBA-FM, rare 101  
0016 (WSP?) 99.7 PA Mt. Carmel, calls heard, was there a change?, lite rock music 188  
0017 (WHEN?) 107.9 NY Syracuse, k\$, Hot Country 108  
108 o/phased CING, ex: WRRB, WRHP 130

12 Tr

0945 Cleveland/Akron FM's with excellent signals including 94.1, 98.1, 102.1, 105.7, 107.9  
o/locals  
0950 WOEL 92.7 OH Bucyrus, ads 260  
1000 WAPQ 98.7 OH Crestline, op\$, comedy act, "The Apple" and legal ID, strong sig. 254  
12 GW  
2300 WZVX 99.7 NY Palmyra, g\$, legal ID great, yet ANOTHER new semi-local. 65

Not much DX to speak of lately. Tropo has picked up a bit in May after being non-existent during this year's first four months. And I finally saw some e-skip, though none heard on FM yet. The first e-skip day this year was May 13, which brings my average opening day to May 10. Hopefully this year's skip season will be better than the last two. I am planning to be in Nashville for the convention, hope to see many of you there!

**STATION NEWS:** In Seattle, Wash., KPLZ 101.5 is now more of a dance approach. In Coastal North Carolina, the simulcast between WRHT 96.3 Morehead City, and WHITE 103.7 Williamston has broken up. They had previously been simulcasting a top 40 format as "The Hot FMs". They now reportedly will both be top 40, but in competition now. There has been a frequency switch in central New York. 102.5 in Rome, NY is now Unistar hot country, with the calls WKDY. Nearby 93.5 Remsen, NY takes up the WUUU call letters and oldies format. WKNZ 101.7 in Collins, Miss. is now classic rock. News from Louisiana: KCRL 106.7 Rayne-Lafayette was supposedly to sign on in Macy 1st, with a country format. Also, KLIP 105.3 Monroe is on, with an urban format, and slogan of "Hot 105.3". Moving to the east, 95.5 Jackson, which has had a slew of formats and calls recently, WLIN, WOHT, and most recently WKQB, is now WKTF, and the ever-popular country. Slogan is "Catfish Country". WSGY 100.3 Tifton, Ga. is the latest station to switch to a country format. WSKS 97.7 Sparta, Georgia is now modern rock, running parallel to station WCHZ 95.1 in the Augusta area, "Channel Z" slogan. Because of complaints from WHTZ Newark, NJ, 100.3 in suburban Philadelphia (Media) is no longer using the "Z100" slogan. They have changed calls to WPLY, and are now using a Y100 slogan. KNFO 95.5 Waco, Texas has changed calls to KCKR, and now is "Kicker" as a slogan. Also, KORQ 100.7 in Abilene, Texas was to have gone to a top 40 format. Boston, which was without a country FM station for the longest time, now has two of them! WCLB 105.7 debuted a few months back, and now WDDJ 96.9 in that city has gone to a country format. WEBK 105.3 Killington, VT is on the air, with a classic rock format, and K-105 slogan. WAMC 90.3 Albany has a new relay. WAMQ 105.1 Greel Burlington, Meas. WWAY 100.7 in VT has two strong transmitters now: 99.7 Marlboro, and 104.7 in Jamaica. Thanks Mike Bugaj, Jerry Monroe, Kurt Richardson, and Matt Siffel.

SOUTHERN FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

JUNE 1993

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

DEADLINE: 14th

'93 SKIP SEASON SEEMS OFF TO A SLOW START DO STAY TUNED.

MORE GULF TROP COMES IN DURING APRIL

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

Equip.: Onkyo T-4087 (IF modified--see note) FM-13 at 50 ft.

2/1 trs  
1240 KNML 98.7 TX Amarillo, aslo 93.1 and Amarillo ch 14 consistantly peaking above noise together.  
3/12 trs & ms  
1035 KYEZ 93.7 KS Salina, regular trs at 400 miles  
1100 KSD 93.7 MO St. Louis, ID 10 sec. burst  
4/1 ms  
WNTH 88.1 IL Winnetka, ID 8 sec. burst, 700 watts?

4/4 au  
2130 WHWC 88.3 WI Menomonie, ID, heard several other muffled au signals, but only ID; worked IN on 144 hHz  
4/13 tr  
0915 KBOK 96.5 OK Elk City, k, ID, in for two hours, 378 miles  
4/19 ms  
1030 KJJK-FM 96.5 MN Fergus Falls, ID, 12 sec. burst

Except for the very narrow duct into Elk City, OK on 4/19 which lasted several hours and excluded the more populated areas--nothing from Amarillo or OK City--tropo was almost non-existent as fast moving weather systems caused too much turbulence for inversion or ducting to form. The aurora of 4/4 was good; signal levels were full quieting level, but unreadable except for the above. My most quiet open mid-band frequency, which used to be 96.9 or 98.1--both now dominated by locals--is now 96.5. KRGI and KQSW are both regular on trs, but have only heard the slightly further away OK stations on the above date. MY UHF TN DXing station for the first time compares favorably with my FM DXing set-up which has provided 1000 mile plus tropo each of the last three years. (Well, good going, Doug. You're like a DX frontiersman out there on the Colorado front range. DB) It will be interesting to see if I receive similar long haul UHF TV? Es made an early appearance on 4/28 and 29 with many 50 mHz contacts into TX, LA, OK, AR, and LA. The MUF peaked around 65 mHz. 73, and good DXing.

John F. Combs N4SFS, POB 721027, Orlando FL 32872 (407) 282-6945

1/5 Es  
1831 WERN 88.3 IL Rockford, ID 1050  
1837 WERN 88.7 WI Madison 1100  
1840 EIOA 93.3 IA Des Moines, ID 1150  
3/7 Tr  
1952 WUWF 88.1 FL Pensacola 380  
1952 WFSU 88.9 FL Tallahassee 225  
1956 WTJT? 90.1 FL Crestview, g tent  
2113 WMTM 93.9 GA Moultrie 240  
2115 WRBA 95.9 FL Springfield 305  
2120 WPFM 107.9 FL Panama City 305  
2313 WTVY 95.5 AL Dothan, K, lcl ment. 315  
2313 WDOF 99.7 AL Dothan 315  
2317 WRWA 88.7 AL Dothan, ID 315  
3/10 Tr  
0327 WJDK 96.3 MS Jackson, local ment. 595  
0413 KAJN 102.9 LA Crowley, "Cajun" 695  
0416 WOLS 103.9 AL Ozark, local ad 370  
0421 WLTS 105.3 LA Slidell, ID 520  
0500 WKUS 100.5 AL Fort Rucker, ID 370  
0633 WTVX 94.7 MS Jackson, local ad 595  
0720 WDJR 96.9 AL Enterprise 370  
0811 WKXN 95.9 AL Greenville, ID 400  
0813 WEZL 103.5 SC Charleston 320  
0816 WSTH 106.1 AL Alexander City 405  
0816 WKXH 104.3 GA Alma, area ad, ex-93.9 225

4/13 Tr  
2158 WPAP 92.5 FL Panama City 305  
2201 KQID 93.1 LA Alexandria, ID 690  
2201 WQID 93.7 MS Biloxi 490  
(Anyone else ever log "W" and "K" versions of the same calls at the same time?)  
2230 WSNI 107.1 GA Thomasville, ID 250  
2248 KAJN 102.9 LA Crowley 695  
2251 KHCB 105.7 TX Houston 860  
2255 KMJQ 102.1 TX Houston 860  
4/13 Tr  
0012 KPGI 94.7 TX Luling, ID, local ads 985  
0023 WUWF 88.1 FL Pensacola 380  
0054 KMGC 106.1 LA Monroe, local ads 690  
0057 WLTS 105.3 LA Slidell 520  
0251 WKRG 99.9 AL Mobile 410  
0255 KXKZ 107.5 LA Ruston, ID 725  
0304 KLOT 106.5 TX Jacksonvill, ID, b 870  
0359 WBBN 95.9 MS Taylorsville, ID 540  
0405 WHJT 93.5 MS Clinton, area talk 605  
0435 WTVX 94.7 MS Jackson 595  
0443 KQXL 106.5 LA New Roads, ID 635  
0445 WSTH 106.1 AL Alexander City 405  
0448 WZHT 105.7 AL Troy 400  
0457 WDJR 96.9 AL Enterprise 370  
(Log now at 367 stations)

A few nice tropo loggings have been made in the last couple of months, but they are by far outshaded by results on TV! Quite often, I would be viewing UHF from a given market at near local strength while not a peep heard from the area FMs. I seem to experience many openings that seem to ignore VHF freqs. In addition, Florida has become a highly saturated FM environment, and even normal morning/evening enhancement (let alone mega-openings) has a tendency to quickly clutter 90% of the frequencies with strong signals from Gainesville, Jax, Tampa, etc., and only DX with a bodacious signal manages to sneak through. A phasing system would help, but it's not in the budget right now (sigh). I admit that the antennas used here are modest, but they're as much as I can get in the air without violating park rules. Besides, my TV set-up isn't that much better, so I don't know. I haven't had nearly as much experience on FM as on TV, so maybe the situation is "normal" and I just expect too much. My experience with FM E-skip has been much more positive, so I eagerly await the summer skip season! 73, JOHN.

JUNE 1993

Address:  
Road

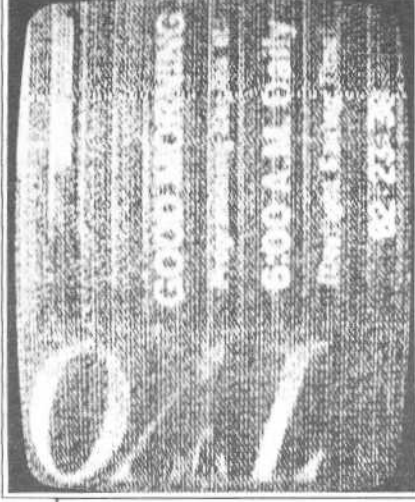
Robert Kramer, Chicago Illinois is our reporter. Equipment: 1978 RCA 19" b&w, Sony 19" color set, Mitsubishi HS-422UR stereo VCR. Archer U-120 UHF at 68' and V-185 VHF at 58', both antennas with RG-11 coax. Three Archer 15-1113A adjustable preamps. Alliance HD-73 rotor. Camera equipment: Ricoh XRM 35mm loaded with Kodak T-Max 400 ASA b&w film. More from Robert next month.



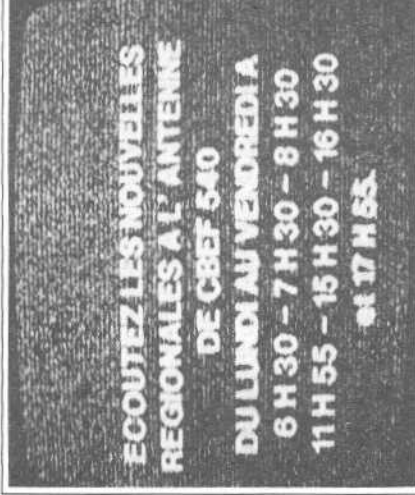
WJET-24  
Eric  
Pennsylvania  
398 mile  
tropo  
seen  
September  
14, 1992  
at 0200 CDT



WNYB-49  
Buffalo  
New York  
460 mile  
tropo  
seen  
September  
14, 1992  
at 0200 CDT



CICQ18-16  
London  
Ontario  
338 mile  
tropo  
seen  
September  
14, 1992  
at 0254 CDT

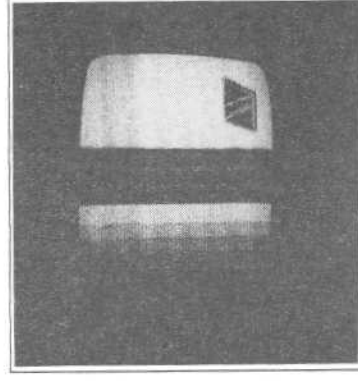


CBFT-54  
Windsor  
Ontario  
245 mile  
tropo  
seen  
September  
14, 1992  
at 0314 CDT

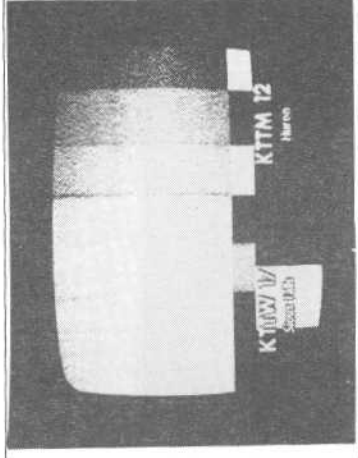
JUNE 1993

page two

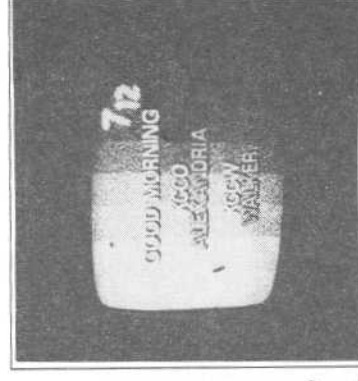
Bill Eckberg, Dixon Illinois. Equipment: 1966 Zenith receiver model CH LN22 with modified UHF tuner. Channel Master 1110 VHF antenna with RDX Labs UA 700 preamp at 41 feet on a Rohn tower. Channel Master 7 foot (UHF) dish with RDX Labs UA 900 peramp at 52 feet on a Rohn crankup tower. Jerrold CAC-11 ficed for both antenna.



CKLT-3  
Florenceville  
New Brunswick  
1105 mile  
E-skip  
seen  
July  
29, 1992  
at 0455 CDT  
"Atlantic TV"



KTM-12  
Huron  
South Dakota  
470 mile  
tropo  
seen  
August  
9, 1992  
at 0200 CDT  
"new on air"



KCCW-12  
Walker  
Minnesota  
439 mile  
tropo  
seen  
August  
9, 1992  
at 0555 CDT  
"new call"



WZTV-17  
Nashville  
Tennessee  
408 mile  
tropo  
seen  
August  
10, 1992  
at 0220 CDT  
"1993 WTFDA convention city"



JUNE 1 1993

page three

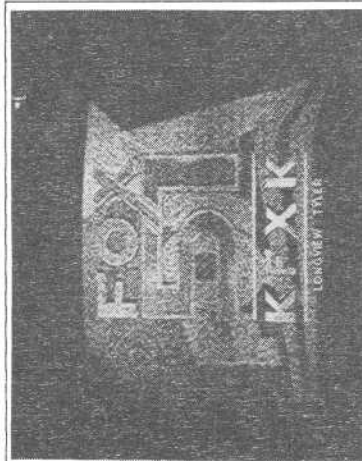
Bill Eckberg's report continued from page two.



KETK-56 Jacksonvillc Texas  
747 mile tropo  
seen September 24, 1992 at 0525 CDT



KTMD-48 Galveston Texas  
914 mile tropo seen September 24,  
1992 at 1040 CDT.  
"rare tropo duct"



KFKK-51 Longview Texas  
697 mile tropo  
seen September 24, 1992 at 0600 CDT



WKEF-22 Dayton Ohio  
298 mile tropo seen late 1992  
"more kw."



more from Bill next month.

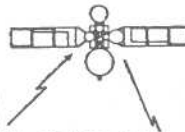
About the convention? I put in for the time; me attending is up to my employer. I also have a sister down the road in Florence AL I'd like to see.

Till next time, DAVE

From Tom Bryant-Nashville Tennessee "I know this doesn't qualify for any sort of DX record (not at 7 miles); but thought it might be of interest because so many of our members seem to be within the WZTV tropo range.

The reason for the picture is a major change in their logo. They run this between about 1AM and 6AM Sunday night (Monday morning). It's also used on all promos, and a 'moving' version of it is supered over regular programming several times per hour. The motion starts with a clockwise sweep that reveals the call, city and FOX (lower right corner) along with a red line which moves to the left, followed by chyron promotional script above the line. Thanks Tom for the DX tip; members shouldn't miss the ID on this one. FOX 29 Buffalo uses the same logo. Fox 31 Rochester is still using the old style.

## SATELLITE NEWS



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

Time for another report on the doings up in the sky with satellites. For the first time in a long time - there isn't much in the change situation.

- Galaxy 1 XPDR 14 - ESPN testing
- Satcom 3 XPDR 19 - Flix parallel to G1 feed
- XPDR 20 - Mind Extention University parallel to G5 feed
- Galaxy 3 - XPDR 1 - Keystone Inspiration off this XPDR noted on another on this bird now (May 13) nowhere I can determine.

Also on G-3 - Asian Television has been testing on several transponders with a target date later in the summer. This is different from TV Asia which is on XPDR 7.

And now a review on what satellites are up there. This list is based on reception from this location and moves from west to east. The date is the launch date

- 139 W - Satcom C5 - Aurora 1991
- 137 W - Satcom C1 - 1990
- 135 W - Satcom C4 - 1992
- 133 W - Galaxy 1 - 1983
- 131 W - Satcom C3 - 1992
- 128 W - ASC 1 - 1985 (C and Ku)
- 125 W - Galaxy 5 - 1992
- G-Star 2 - ? (Ku only)
- 123 W - Telstar 303- 1985
- SBS 5 1988 (Ku only)
- 116.5 - Morelos 2 - 1985 (activated 1989 C and Ku)
- 114.9 - Anik C3 - 1982 (Ku only) inclined orbit
- 113.5 - Morelos 1 - 1985 (C and Ku)
- 111.1 - Anik E1 - 1991 (C and Ku)
- 107.3 - Anik E2 - 1991 (C and Ku)
- 105 W - G-Star 4 - 1990 (Ku)
- 103 W - G-Star 1 - 1985 (Ku)
- 101 W - Spacenet 4 - 1991 (C and Ku)
- 99 W - Galaxy 6 - 1990
- SBS 6 - 1991 (Ku)
- SBS 2 - 1982 (Ku) inclined orbit
- 96 W - Telstar 301-1983
- 95 W - SBS 3 - 1982 (Ku)
- 93.5W - Galaxy 3 - 1984
- 93 W - G-Star 3 - 1988 (Ku) Inclined Orbit
- 91 W - Galaxy 7 - 1992 (C and Ku)
- 87 W - Spacenet 3- 1988 (C and Ku)
- 85 W - Telstar 302-1984
- GE K1 - 1986 (Ku)
- GE K2 - 1985 (Ku)
- 76 W - Comstar 2/4-1980? Inclined orbit
- 74 W - Galaxy 2 - 1983
- 72 W - Satcom 2 - 1983
- 69 W - Spacenet 2- 1984 (C and Ku)
- 62 W - TDRS 3 - 1992
- 53 W - Intelsat 513 199? (C and Ku)
- 50 W - Intelsat 506 1982? Inclined Orbit
- 45 W - Panamsat 1988 (C and Ku)
- 41 W - TDRS 4 1990?? (C and Ku)
- 34.5 W - Intelsat 603 1991 (C and Ku)
- 31 W - Hispasat 1992 (Ku)
- 27.5 W - Intelsat 601 1990 (C and Ku)
- 24.5 W - Intelsat 605 1990 (C and Ku)
- 21.5 W - Intelsat K 1992 (Ku)
- Intelsat 502 - Inclined Orbit

CONTINUED ON PAGE 25 ->

Due to a lag in new TV DX reports we will feature comments from Mike Reid and some equipment comparisons. The equipment listed below was tested in three locations, and observed without test equipment.

Model	Year	Output	Stereo	Remote	Fine Tune	Comments
Teknika 6001	1978	RF only	no	yes	yes	12 ch. thumb wheel primitive tuning like the first VCR tuners.
Teknika 6401	1983	RF only	no	yes	yes	83 ch. w/station search that goes up or down channel to the next channel with a signal.
Teknika 6510	1985	RF & AV	*	yes	no	83 ch. w/2 VHF ant input one cable and one off air (w/FRED) (both cover ch. 2 to 13)
Teknika TVC-22	1986	RF & AV	Yes	no	yes	no up or down ch. button so each channel has to be put in separately (eg. 2-5, 2-6) (overloads easily)
Zenith 21"	1971	B & W	no	no	yes	tube set with a round 70 channel clicker type UHF tuner. Selectivity bad and -14 ch. image bad.
Zenith 19"	1981	RF	no	no	yes	Solid State set with a 70 channel clicker type UHF tuner. -14 channel image bad.
NEC 20"	1988	RF & audio	yes	yes	no	emphasis on dark snow (noise) so weak signals look less snowy due to circuitry

Also tested were a 1983 19" Zenith color set with manual electronic tuner (with a ten number key pad on the set) and a Pioneer TVX-9500 tv audio receiver but they worked so poorly they were not included in the comparisons.

Most of the equipment listed for over \$200. each new, but were bought at Ham-Fests and used electronics stores for less than \$50. each.

The best reception of weak signals was the 1971 B & W Zenith TV. The 19" Zenith color TV set and the TVC were a close second. (The TVC-22 was the best tuner for recording weak signals.) The Teknika 6510 and 6401 were in third place. The Teknika 6001 had the audio in clear with a snowy picture, then when it was tuned to the best video signal the audio was out of tune. The NEC 20" color TV with auto tune locks on frequency slightly above the channel so only a signal in color looks clear. Pictures of half snow-free signals were similar on most of the equipment.

One trick to get a good B & W picture on a weak signal on the TVC-22 and 6510 is to use audio out for audio and RF out on channel 3 or 4 of your VCR, then fine tune the VCR (if you can fine tune your model VCR) slightly down in frequency to get the peak B & W signal. When DX is strong enough for color, tune up in frequency for the best color signal or plug in the video out of the Teknika to the video input of the VCR.

The audio IF (41 megahertz) is extracted from the '71 Zenith B & W TV with a wire near the circuit board of the TV going to an antenna jack of a tunable lo band police receiver. (Guardian 7000 by Lafayette) This enables clear audio reception of signals at a weak frame bar signal level. The audio sensitivity was compared to the Icom R-7000. The audio was similar with the Icom in the wide mode. With the Icom in the narrow mode the Icom is much more sensitive than the IF extracted Zenith audio. The Icom (with the Icom video adapter) had the common problem of detuned video when the audio peaked, and the audio suffered when the video was peaked.

The Icom was able to detect audio before any sign of video was present. The audio offsets; .75 for 0, .74 for - and .76 for + would bring in three separate distinct audio signals from each scatter signal TV channel. On channels with local stations, the Icom could not bring in audio on separate offsets, but if a local had noticeable CCI then you could probably get audio from the DX station. An exception to this is Es when audio from a DX station can be strong when there is no sign of video CCI.

Bill Neinajadly P.O. Box 2999, Clifton, N.J. 07015 N2QJ/AA

April 1993

9 tr 2200 WMHT-17 NY (160)

26 GW 1800 WMBC-63 NJ (40) New on air!

Bill Neinajadly (continued)

Equipment: Radio Shack Deluxe UHF yagi, AC-4990 amp, rotor, cheap TV

Comments:

4/9/93 Albany 23, WCDC-19 MA snow free, Boston Ch. 33 (W33AV SW) with video jukebox in snow free at times. W17AC NYC (WPIX) has been of the air for some time now enabling me to get WMHT-17. WMBC-63 from Newton, N.J. is very ghostly even at only 40 miles.

Mike Reid, 1408-65 Spring Garden Ave., North York, ON M2N-649

Equipment: Zenith 19" B&W, Icom R-7000 receiver, two-bay antenna at 105' above ground, Winegard AC-4990 amp.

Comments: (from fall of '92) A tropo season that keeps you on your toes! A lot of unusual paths opened up this fall. Over the August to October stretch, I received about 3/4th of the NJ station even seen. I never heard of a Rhode Island to Toronto path before. It was nice of CBLFT to be on reduced power for much of this period. I was able to dig out the audio signals of several stations on channel 26 with the Icom. Unfortunately, the FM stations on the CN tower (Toronto) were down on 10/23 which I missed completely. It is rare that this happens when tropo are present. (Murphy's DX Law) My Icom developed a problem and does not operate in several frequency ranges. I can only DX on channels 21 to 61, so I missed some DX. I tested QSL waters with four attempts and got four replies! Do the NJ Network stations always have that "NJN" on the screen? (Yes, whenever I view channel 23. I am sorry I had to edit your loggings last month but there was over 150 stations and the report was not typed. I reported the highlights but with no mileage listed I could not determine which were the best catches unless they were new. SW)

Stephen West, 26 Dougherty Blvd. G-8, Glen Mills, PA 19342 N3FYO

Equipment: 4 bay UHF antenna (indoors) with a Winegard PA-4975 amp. at 20 AGL and 400' ASL.

April '93 Nags Head, NC

4-9 tr 0730 WEBA-14 SC (371)  
0800 WCES-20 GA (412)  
WNTV-29 SC (376)  
0830 WNEH-38 SC (378)

May '93 Glen Mills, PA

5-9 tr 0300 WYDO-14 NC (Fox)  
0400 WLFL-22 NC  
WRDC-28 NC (340)  
WZBN-25 NJ (45)

Comments: Good tropo for several days in May, with a new one in New Jersey adding CCI to channel 25 regularly now. They are broadcasting "ALL NEWS CHANNEL" 24 hours a day from Mercer County, NJ. I received a channel 35 with Family Net progaming giving CCI to WRLK-35. This could have been Hazelton, PA (W35AT) as Scranton was in strong. WTXH channel 20 is now Home Shopping 24 hours a day. Channel 53 in Atlantic City, NJ is now stronger, probably running a few kilowatts now. They are still "Channel America". I had a tentative WMBC-63 with ethnic programing during this period. WZBN-25 does not come in without tropo.

# WESTERN TV-DX

Fred McCormack  
PO Box 65666  
St. Paul MN 55165-0666

(612) 735-6860

Deadline: 07-08-93  
Cut-off: 04-01-93

June 1993

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

TA Tamalipas YN Yucatan

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

CST

Equipment:

Channel Master 1110 Quantum with Winegard PA-1375 preamplifier and RG-11U at 30', Channel Master 4228A with Winegard PA-4975 preamplifier and RG-11U at 35', Alliance HD-73-1 rotor, Channel Master 7206 HI "Q" trap, and Zenith Z1920W 19" color TV.

February 1993

15 gw 2105 WEUX 48 WI 56

WEUX-48, Chippewa Falls, is a glorified translator of WLAX-25, La Crosse. Their supposed 60 KW at 320 feet doesn't get out very well. Reception here is quite poor and is significantly weaker than equidistant K53CH, St. Paul (1.8 KW at 700 plus feet).

March 1993

27 tr 2106 Chicago UHFs  
WYIN 56 IN 372  
WNDU 16 IN 402

Many thanks to Bill Hepburn for IDing some of the Canadian stations mentioned in my last report. The two "Radio-Canada" CBVT-11 repeaters on channel 2 were

CJBRT, Rimouski, and CBGAT14, Carleton (both Quebec). The Ottawa test pattern on channel 3 was most likely CBOT6, Pembroke, Ontario. 73, Mike

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment:

1966 Zenith b&w receiver ch 14N22, modified UHF tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish at 52'. RDX Labs UA700 and UA900 preamplifier respectively. Jerrold CAC11 cable.

March 1993

27 tr 0240 WOIO 19 OH 401 28 tr 0350 WMTU 16 TN 419  
27 tr 0030 WOAC 67 OH 417 0400 WPGH 53 PA 491 0435 WLMT 30 TN 451  
0230 CIII22 22 ON 360 0500 CIII41 41 ON 525  
0235 WKBN 27 OH 450 28 tr 0345 KTEJ 19 AR 409

I saw snow free video of WLAX-25 to the northwest on channel 15. Could this be the WYIN-24 channel 14 translator at Decorah, Iowa off frequency?

I saw the Global ID on channel 22 all night on March 27. Wasn't Global 41 in Uxbridge formerly channel 22? I have no listing on this although it has been reported often.

(I don't have the history of these Global changes handy, but I believe the current situation is that channel 41 broadcasts from the CN Tower in Toronto (43-38-33 N 79-23-15 W) and channel 22 broadcasts from a site south of near midway between Windsor and Chatham (42-03-41 N 82-29-05 W). FCC microfiche and Television Factbook identify channel 22s city of license as Stevenson. fm)

Jeff Kadet, Hotel Vijaya, Puri, India

IST

Equipment:

TV: Nelco Maestro; ANT: 5 element yagi (ch 14-20?) up 50' overlooking Sea of Bengal.

02/22 Es 1950 unids - two channels on low band (possibly 3).  
2039 unid - (channel unknown, probably E-2); VISA card ad in Arabic portraying three sheiks with white headdresses.  
gw 2100 local Doordarshan outlet here on UHF (on low part of band judging how antenna is cut).

Western TV-DX

June 1993

Jeff Kadet (continued)

02/23 Es 1250 unid - round test pattern almost exactly like the Phillips "Montreal" test pattern seen all the time on Es, except it said something else (couldn't read it).

I spent two months this winter traveling around the northern part of India. I watched lots of TV while there but didn't seriously DX until Puri which is a straight 370 mile over water path from Burma. The plan was to try to get Burma on TV, but no go. After getting back to the "USA" (as Indians call it), it is noted the WRTVH lists Burma as having NTSC and India is PAL.

However, there was some unexpected E skip! As a guess, I think the February 22 unid was from Dubai, but the signal would have had to make its way through the hotel which was blocking the west, plus deal with a UHF antenna. Had one had rabbit ears available, these may have been interesting openings.

The UHF yagi, 10' of cable and a connector installed cost a whopping 52 Rupees. There are 28 Rs to \$1.00. The connector looks like an F connector, except the center conductor looks like one from an RCA plug. I brought the antenna back through US Customs and nobody checked me! The tuner on the Nelco TV was pushbutton with those little V-lo/V-hi/UHF wheel adjustment things for each button. That is why I do not know channel numbers I was watching.

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

CST

Equipment:

ICOM R7000 with video adapter; Zenith L1310, N1310, Y1310 13" color sets; five 9" to 12" black & white Zeniths for E skip (all sets circa 1979-1982). Screened Channel Master 7" dish with UA-900 preamplifier, .500 aluminum hardline up 85', Channel Master 1110 with PA-1975 preamplifier, .500 aluminum hardline up 80', Winegard 5 element lo-band yagi (vertically polarized) with RG-11 up 18'.

March 1993

27 tr 0300 W48AP 48 OH 375 (Toledo VJN)	27 tr 2010 \$W63AW 63 MI 390 (Iron Mtn CBN)	28 tr 0358 W22AJ 22 IL 195 (Waukegon TBN)
CIII22 22 ON 440 ( See Note # 1 )	W65BN 65 MI 390 (Nashville TNN)	ch 45 shopping (Rockford ??)
CIII41 41 ON 615	W56BF 56 MI 720 (Iron Mtn LPTV)	0516 unid ch 48z n ( See Note # 2 )
0402 &CFMT 47 ON 615	W67AO 67 MI 390 (Iron Mtn DIS)	0534 @WEUX 48 WI 305 ( See Note # 3 )
0600 &CBFT 54 ON 415	K69BA 69 MI 390 (Iron Mtn WLUK-11)	W64AU 64 WI 245 (Adams w/WYCC-20)
&CBLN 40 ON 510	2220 K62EG 62 MO 140 (St. Louis religion)	(Normal WHRM-2)
2010 W54AR 54 WI 380 (Fence WPNE-38)	28 tr 0130 St. James MN Us Willmar MN Us	2000 K70DR 70 MN 280 (Blue Earth KTTC-10)
W57BJ 57 WI 300 (Green Bay TAB)	\$W59AQ 59 MI 390 (Iron Mtn WGN-9)	Austin MN Us St. James MN Us

Note #1 - NOT parallel to channel 41 with that incessant all night street scene stuff. They just had a Global ID up.

Note #2 - Some satellite network, possibly BET.

Note #3 - Color bars with WLAX-25 dual ID. NOT related to above unid.

Current screened dish, mast, and tower configuration have withstood two Illinois winters intact; a very good omen.

Muchas gracias to Fernando Garcia for listening to my channel 46 tape of June 17, 1992. To quote Fernando, "I'm sure indeed you got Piedras Negras. I don't catch them often here. I'm sure they don't run much power. Nice catch from Illinois!"

This may be my best TV catch ever with contenders being channels E-2 in Norway and Sweden, both confirmed by letter from photos I sent; a 95% certain Leningrad on channel R1 (never confirmed); 47 mile distant channel 14 pirate in Manito, Illinois; WLVI-56; and 7 Colorado translators. Station total is 1307 with about 950 photographed.

One last item (let me sneak this in because there is no FM column): I did not realize that you can FM-DX from an airplane with mindboggling results. I FM DXed on a little Casio portable with digital readout all the way from Yemen (where the plane refueled) to Chicago. It's like DXing from atop a 20,000' tower. Zillions of hi and lo powered stations all over the dial. FM broadcast is very active in the Middle East and eastern Europe. (India, on the other hand, only had 1 FM station I heard (in New Delhi). But Bombay, appropriately named because of all the bombs that go off there, may have one too.) 73



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

CDT

Equipment: See May 1993 Western TV-DX

Table listing TV stations and frequencies for April 1993, including call letters, frequencies, and locations like W40AN 40 MI 95 and W22AJ 22 IL 145.

Note # 1 - 04/13 @ 2038 - U.A.E. program - news in Arabic. 04/22 @ 1915 - U.A.E. program - news from Belgrade, Yugoslavia. At 2100 in Yugoslav.

Note # 2 - "Catechism Lessons" started at 2200 and continued past 2215 at which time the signal faded. The catechism lessons began on April 27 and are a nightly affair.

Note # 3 - Local WBAY-2 doesn't come on until 0620 on Sundays.

Not much DX in April. Three snow storms moving through the area didn't help matters much. The only good thing is they produced mostly rain here.

I was listening to the local Three Angels Broadcasting Network LPTV a few nights ago and they were talking about the new stations they intended to put on the air in Lincoln, Nebraska; Champaign, Illinois; Sarasota, Florida (channel 34); Madison, Wisconsin and Battle Creek, Michigan.

Fernando Garcia, Apartado 30, Suc. B, Cd. Guadalupe, N.L., 67181, Mexico

HCM

Equipment: Sony 27EXR15, Archer V-185 and V-8 UHF array at 30', Archer 15-1108 amplifier and rotor.

Table listing TV stations and frequencies for February 1993, including call letters, frequencies, and locations like KRPBT 24 LA and KTXH 20 TX 410.

Fernando Garcia (continued)

Table listing TV stations and frequencies for Fernando Garcia, including call letters, frequencies, and locations like KADN 15 LA 584 and WFLA 33 LA 640.

Table listing TV stations and frequencies for March 1993, including call letters, frequencies, and locations like SKVHP 29 LA 522 and KLAXt 31 LA.

Table listing TV stations and frequencies for various stations, including call letters, frequencies, and locations like WDBD 40 MS 752 and WXTX 54 GA 1019.

Fernando Garcia (continued)		1 tr 2100 XHDH 11 YN 780	6 tr 0618 KVHP 29 LA 522
		2105 XHTP 9 YN 780	0640 WVLA 33 LA 640
31 tr 2215 XHDH 11 YN 780	2 tr 0620 XHDH 11 YN 780	0650 KADN 15 LA 584	0651 KLBP 24 LA 584
2235 XHStt 13 YN	2040 unid ch 13 Cuba		
	6 tr 0610 KXXV 25 TX 447		
April 1993	0615 KITU 34 TX 491		
1 tr 2050 XHST 13 YN 780	0617 KLAX 31 LA 606		

Note # 1 - CBS, logo for channel 5.

Note # 2 - Morning Business, suspect Atlanta.

Houston, San Antonio, Corpus Christi, and Austin too often. I will not report them in the future.

Jeff Kruszka, 7706-M N Jefferson Place Cir, Baton Rouge LA 70809 (504-923-0196) CST/CDT

**Equipment:**

1992 Zenith "Sentry 2" 13" color TV (Model #S1318S). UHF: RDX Labs UA-900 preamp, Channel Master 4228A 8-bay @30 ft. VHF: Rabbit ears + quad loops for chs. 2 and 5. Mitsubishi HS-U31 VCR.

March 1993	26 tr 0600 KOKH 25 OK 215	11 tr 0652 WTJP 60 AL 390
8 tr 2314 KTXH 20 TX 255	0610 KXAN 36 TX 545	2033 WFSU 11 FL 405
2325 WCJB 20 FL 525	0622 KVUE 24 TX 545	2150 WTLH 49 GA 390
9 tr 0000 -KEDT 16 TX 425	0629 KJTL 18 TX 285	2300 WFXL 31 GA 415
0007 WFTS 28 FL 550	0645 KETA 13 OK 215	2318 @WBSV 62 FL 575
0022 KLTJ 22 TX 235	0654 KTLK 43 OK 215	2311 WTXL 27 FL 405
0552 @KHCE 23 TX 445	0700 KCIIT 14 TX 205	KLDO 27 TX 540
0553 KRIV 26 TX 255	0707 KOCB 34 OK 215	2350 WTCW 40 FL 405
0558 KWEX 41 TX 445		12 tr 0007 WJHG 7 FL 325
0601 KVUE 24 TX 395	From Baton Rouge:	0015 WBSG 21 GA 570
	29 tr 0002 WFTS 28 FL 550	0028 WKCF 18 FL 575
		0032 WJCS 17 FL 560
0604 KTMD 48 TX 235	April 1993	0103 WNFT 47 FL 560
KTFH 49 TX 260	11 tr 0047 unid 11 Spanish	0442 WTMV 32 FL 575
WBHS 50 FL 550	( See Note # 2 )	@KDAF 33 TX 365
0608 KHSB 67 TX 260	0117 KFXX 51 TX 255	0443 WHBR 33 FL 230
0610 KHOU 11 TX 255	0143 KVEO 23 TX 500	0458 WDHN 18 AL 340
0614 KXAN 36 TX 395	0147 unid 28 Spanish	0500 WAWA 30 FL 560
0646 KRRT 35 TX 475	( See Note # 3 )	0502 WTTA 38 FL 540
0650 KHSX 49 TX 375	0213 K55FV 55 TX 255	WLTZ 38 GA 390
K50AO 50 TX 425	(Houston ValuVision)	0511 WUSF 16 FL 550
(Corpus Christi VJN)	0215 KRTW 57 TX 235	0523 WBHS 50 FL 550
0700 KDTX 58 TX 365	0221 =KVUE 24 TX 395	0545 WTLV 12 FL 560
WSFP 30 FL 620	KXAN 36 TX 395	0552 WXTX 54 GA 360
2019 KETH 14 TX 255	0234 KRRT 35 TX 475	0559 WSSJ 55 GA 445
2101 KRTW 57 TX 235	0239 KABB 29 TX 445	0645 WJXT 4 FL 560
( See Note # 1 )	0244 KETK 56 TX 265	2003 WKCF 18 FL 575
2102 KMBH 60 TX 495	(o/local K56DR)	2054 WJKS 17 FL 560
2109 XHAB 7 TA 505	0315 KMSS 33 LA 210	2142 WCJB 20 FL 525
2157 K47DF 47 TX 425	0418 @WHOA 32 AL 315	2157 KWEX 41 TX 445
(Corpus Christi LPTV)	0422 WCOV 20 AL 315	KVDA 60 TX 445
2211 KRIS 6 TX 425	0434 @KSAT 12 TX 445	13 tr 0526 @KLRT 16 AR 305
2219 KNVO 48 TX 525	0500 KDFI 27 TX 365	0529 WBMG 42 AL 335
2233 WFGX 35 FL 265	0516 K17Byt 17 TX	WABW 14 GA 420
2257 KLRU 18 TX 395	(San Antonio GLA)	0545 WACS 25 GA 405
2315 KHIV 39 TX 255	(ECO nx to west)	0558 KVIN 25 AR 270
2324 KVDA 60 TX 445	0524 KHSX 49 TX 375	0607 WOGX 51 FL 545
2327 KBTX 3 TX 310	K50AO 50 TX 425	WSSJ 55 GA 445
2347 KVEO 23 TX 500	0529 KXXV 25 TX 360	0617 WCBT 4 MS 425
10 tr 0559 WBMG 42 AL 335	0537 KASN 38 AR 270	0625 WXTV 15 MS 210
0600 WTJP 60 AL 390	0550 @WSRE 23 FL 230	0640 WCTV 6 GA 425
0605 WABM 68 AL 335	0553 KWEX 41 TX 445	2026 WFTX 36 FL 620
0607 WTTQ 21 AL 335	0557 WMAO 23 MS 220	2029 WBBH 20 FL 620
KVUE 24 TX 395	0559 +KORO 28 TX 425	2032 WBSV 62 FL 575
WJSU 40 AL 385	0602 KGBT 4 TX 495	WBHS 50 FL 550
	(Floating o/WWL)	2145 WJKS 17 FL 560
From Dodge City KS:	0614 @KBVO 42 TX 395	2233 WKCF 18 FL 575
(w/Watchman on 2nd floor)	0630 +KUHT 8 TX 255	2246 WFSG 56 FL 325
26 tr 0600 KWTW 9 OK 215		

Jeff Kruszka (continued)		24 tr 0457 @WJSP 28 GA 390	24 tr 0601 WVTM 13 AL 335
		0511 WACS 25 GA 405	0603 WTJP 60 AL 390
		(// 14, 28)	0646 WSFA 12 AL 315
13 tr 2317 WTXL 27 FL 405		0520 WLTZ 38 GA 390	0700 WMTG 41 GA 470
2354 WMCB 45 AL 315		WXTX 54 GA 360	27 tr 2100 WNTZ 48 MS 80
14 tr 0033 WCOV 20 AL 315		0527 WCES 20 GA 545	( See Note # 4 )
0040 KVTN 25 AR 270		0544 WTXL 27 FL 405	28 tr 0640 KTRK 13 TX 255
0116 WXTX 54 GA 360		0550 WBMG 42 AL 335	
23 tr 2315 WMBB 13 FL 325		0556 WTTQ 21 AL 335	
24 tr 0454 @WABW 14 GA 420			

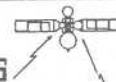
Note # 1 - Now we finally know this station exists! They ID'ed as "KRTW TV-57 Baytown/Houston," and they had religious programming. They must have limited hours, because I saw them go off at 2131 with no formal signoff. There have also been days when I've had Houston in strong, and they're nonexistent; so maybe they only run when they have money.

Note # 2 - In good for a 1/2 hour in color. "TV-13 Noticias" seen, no IDs.

Note # 3 - I saw this one in New Orleans, too. I don't think it's KORO and here's why: They did not show a "KORO" ID on the hour, just a "brushed" 28 diagonally across the screen. And, they signed off @0200 with what was not the US national anthem, probably the Mexican anthem (I did see KORO signon @0559 with the US anthem and a full ID).

Note # 4 - First noticed this morning. ID as "Fox 48 WNTZ Natchez/Alexandria" with Fox programming. They're not very strong here, it took a tropo enhancement (200 mi) to see them. I wonder what will happen to K47DW, Alexandria (was also Fox)? I haven't seen them here yet.

Wow!! Not bad for my first 2 months here. My log's already up to 160 - at this rate, and with a good Es season, I should surpass my New Orleans log in no time.



SATELLITE NEWS

→ CONTINUED FROM PAGE 17

14 W - Gorizont 15 - ??? (C and Ku)  
11 W - Gorizont 12 - ??? (C and Ku)  
8 W - France Telecom - ?? (C and Ku)

This Telecom satellite is as far E as I can go. I'm near the horizon and trees and buildings prevent any reception beyond this point- though without these barriers I might be able to get to 0. On the West coast reception beyond 139 is possible - you have to go close to 180 to get an Intelsat, though a couple of DBS sats for US use may be going up in that area in the future. Remember the original Alcomsat - Aurora 1 was at 143W and was viewable on its US beam here. That all for now - see you in 30.

*Strong*

## PUBLISHER'S NOTES:

ACKNOWLEDGMENTS: A big thanks to Tom Bryant for cover material used on the March and May issues; thanks also to Dave Nieman for the coverage map on the April VUD, and to Mike Sanburn for this month's cover, and thanks also to Dave Marshall and Robert Twomey for additional material used on recent VUD covers.

-Bill Thompson

# WHY A PARABOLIC DISH IS BEST FOR SERIOUS UHF TV DX'ING

by Mark McCarthy

To most of the TV DX enthusiasts in WTFDA, "UHF" means television channels 14 to 69, situated from 470 to 806 MHz. Design engineers will often tell you that this is an inordinately large chunk of RF spectrum to cope with in a single tuner, preamplifier, or antenna. Good reception at UHF as always been elusive to the public, and hasn't really been helped too much by the FCC's rather feeble attempts to foster it. All things being equal, UHF always has the disadvantage of higher signal path attenuation, higher transmission line loss, higher tuner noise figure, and so forth. But there's something about UHF that helps make up for all those supposed "shortcomings," and that's the great variety of antenna designs available to the reception enthusiast. This is due to the shorter wavelengths of UHF. These shorter length waves make it possible for the enthusiast to own an extremely high performance antenna, the parabolic dish. I'm talking about the 5, 6, and 7 foot models made by Antennacraft and Channel Master, popular--with very good reason--among WTFDA's TV DX'ers

It's just not practical to have an effective rotatable parabolic dish antenna for the VHF TV/FM spectrum, but by the time you get up to about 500 MHz or so, a parabolic as small as 5 to 6 feet starts to give you the kind of results you can only dream about at VHF, such as forward gain in excess of 12 dB and a front-to-back ratio over 20 dB, as well as razor-sharp signal nulls.

Many TV DXers start off using stacked-bay bowties, either 2-bay, 4-bay (the most commonplace), 8-bay, the rarely seen 12 bay (it enjoyed some popularity in the late 50's--along with the Ford Edsel) and the "deluxe" version of the stacked bay array, the 16-bay, which can offer slightly more gain at the low end of the band than some parabolic dishes. There are those of you out there who I know are using stacked-bay bowtie arrays for DXing, but this antenna is just NOT for the serious DXer. It will do in a pinch and I suppose it may even fit into a small closet or a tight crawlspace, but I'll take even a 4 or 5 foot dish over a stacked-bay antenna anyway, in any opening. A good 4-bay bowtie does have probably more gain per dollar than any other antenna; the ones I've tried have very full gain curves and high front-to-back ratios across most of the ch 14 to 69 spectrum, but no stacked bay will ever give you the "laser-like" beamwidth--as well as the highest average gain--of a parabolic dish for UHF.

In terms of sheer forward gain, you would need to construct a 16-bay bowtie array to approximate the performance of a 7-foot UHF dish. Even then, you would not see the kind of deep nulls possible with a dish, and these are the kind of nulls that make successful UHF translator and LPTV DXing possible. Our friends up in New York and Pennsylvania are able to rotate their dishes 360 degrees and see several stations per channel above channel 50 in a "hot" tropic session, each separable. Dozens of different signals can be logged in during just one opening! Trying same with a stacked-bay array gets you nothing but a lot of co-channel interference--like E Skip on UHF. This is exactly why you'll always find the serious UHF TV DXer using a parabolic dish, along with a mast-mounted low noise preamp and low loss feedline (75-ohm hardline is an absolute necessity for long runs here -- standard coaxial cable won't do.

Most other types of UHF TV antennas probably aren't really worthy of consideration for serious DXing. The corner-reflector yagi, for example, is notorious for having narrow bandwidth and rapid gain rolloff--although often has quite presentable forward gain in the middle of its design range, which is often not much more than 15 channels wide. They are certainly much easier to rotate than a dish, cheaper, and lighter too--but you won't catch me using one for DX reception! If you are serious about the UHF TV DX game, use a parabolic dish. You'll pile up more new stations than you can keep track of, and you'll do it in fairly short order. The next time the band opens out to 900 miles, a dish can make the difference between identifying stations and guessing at anonymous "frame bar" trace signals.



EXTRA!

- Crowley/Avco -

## WLW-D COVERAGE AREA

CHANNEL 2 DAYTON 9, OHIO

TELEVISION SERVICE OF THE NATION'S STATION

This coverage map is based on FCC definitions of Grade "A" and "B" service.



Crowley Broadcasting Corporation

140 WEST NINTH STREET • CINCINNATI 2, OHIO