

WORLDWIDE TV-FM DX ASSOCIATION

APRIL 1992

-YOU'VE TUNED IN TO 91.6, K-VOID. THE ONE SPOT ON YOUR DIAL WITH NO PROGRAMMING WHATSOEVER.

-YOU'VE TUNED IN TO 91.6, K-VOID. THEONE.

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PIRARO.

class

11/92 WILLIAM 35 NYE R GLASTONBURY M N NOLLMAN ROAD 06033

ANNOUNCING



VHF IONOSPHERIC PROPAGATION SYMPOSIUM

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

PRELIMINARY CALL FOR PAPERS

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

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

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

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

To submit abstracts or for Program information:

Dave Batcho, N5JHV 5611 Desert Star Road Las Cruces, NM 88005 (Phone 505 526 1861) For information on Registration and Attendance:

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

Television News

Doug Smith, Editor 14 Brookside Court Bashville, TH 37208 (615) 356-8305 CIS 72777,3143 N9NI @ W4HHY.TH



ABBREVIATIONS USED IN THIS COLUMN:

ERP= Effective Radiated Power, in kW

HAAT=Height Above Average Terrain, in meters

AAT= Above Average Terrain

AG= Above Ground

ASL= Above Sea Level

nc= No change

TL= Transmitter Location

CP= Construction permit

MP= Modification permit

(modification of construction
permit)
*= Non-commercial

APPLICATIONS FOR NEW TV STATIONS

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

CONSTRUCTION PERMITS FOR NEW STATIONS

St Ch ERP HAAT City MI 45 153.2 290 Vanderbilt

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

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

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

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

APPLICATIONS TO CHANGE EXISTING STATIONS

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

APPLICATIONS TO CHANGE EXISTING STATIONS (Cont'd.)

<u>St Ch ERP HAAI Call City</u> VA 65 398 254 WZXK Ashland (TL: 37'44'32"N, 77'15'18"W

CHANGES GRANTED TO EXISTING STATIONS

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

CALL LETTER CHANGES FOR EXISTING STATIONS

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

CALLS GRANTED TO NEW STATIONS

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

OTHER STUFF

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

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

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

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

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

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

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

FORUM

Bill Nienajadly, Clifton NJ:

Bill continues to provide greatly appreciated newspaper clippings...

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

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

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

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

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

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

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

Roger Windsor, Valparaiso IN:

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

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

FCC RULES PRIMER

Assorted TV technical rules:

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

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

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

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

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

UHF stations must be at least:

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

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

55 miles from adjacent-channel stations.

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

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

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

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

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

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

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

Zone II is the rest of the USA.

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

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

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

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

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

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

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

"WSMV, a Cook Inlet station, Nashville" "WSMV, Channel 4, Nashville"

are both legal.

"WSMV, Your Wheel of Fortune Station, Nashville"

is not.

73 Doug



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

Contributions earnestly solicited!

Readers' Reports

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

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

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

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

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

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

Returning from a trip to AZ is Karl Zuk, "KQST Sedona AZ is a Class A and probably won't move and go to Class C at 100,000 watts, Station is owned by an 87-year-old gentleman, and his son does drive time. Heavy metal, ugh! Yes, it's in stereo, and on 100.1! They are on their fourth extension of the CP for frequency/power change and with almost nonexistent ad time, I don't know how they will find the money to up their power. Also, commenting on p. 6 of the March VUD, re: WAMC Albany NY I disagree! The Mount Greylock is great. When WHPC/WBAU, both stereo. Garden City NY and WHCR (mono) New York NY are off 90.3 I can get WAMC on a \$10 walkman on the west side of Manhattan walking betwen big steel buildings. Their 90.3 signal is a super signal like WSPK 104.7 Poughkeepsie and WALK 97.5, both stereo, Patchoque."

obstructed by local terrain-b.e.] After he got back to NY, Karl received a list of AZ cable frequencies from Warner Cable of Sedona. That answers why he has heard such things as KNIX Phoenix on 104.7 and KAFF Flagstaff on 100.7--cable leakage.

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

Stewartville MN, KYBA on 105.3, not yet on air, but with tower to be built between Austin and Rochester. It seems they are looking for a new site farther north. He's is listed as 3 kw, but apparently is working to get 50 kw approval, KWWK Rochester expects to move from 96.7 to 96.5 with 39,100 watts this spring, while KRCH 101.7 has already achieved 50,000 DX-ready watts.

Robert Grant comments on Detroit radio, including the change from b to mr for WJOI 97.1-a change making that station less distinctive to the FM DXer-with ads that say "no elevator music," He sent a reprint from a local leftist newspaper, the "Metro Times," mentioning a short-lived pirate on 106.3, calling itself "Radio Free Detroit." Robert briefly heard the pirate one Thursday night "while driving home on the I-75 freeway, they were under the noise less than 1.6 km from the area of Valparaiso [IN] Technical Institute, with 100 mw on the 'Cass Corridor' they were transmitting from, getting killed by WWWW 106.7, also with downtown transmitter. I knew once the station had gone 'high profile' by being vacation. It is heard usually on Sunday nights and when exposed in the Metro Times that the FCC would swoop on 88.3 was received 16 km away, with only minor in, sure enough, as the Detroit News article states, the FCC had already busted the station before I heard it, but could not shut off the station without a search warrant, RFD 106.3 has not been heard since. They could probably cover better, legally, with a 1-watt transmitter in the longwave band, but if it were legal, RFD probably would not want to do it anyway; the rebellion is the product, not the broadcast!"

Ernie Cooper orders an FM Atlas and keeps hoping "I'll find the type of programming in the listing by frequency, have suggested it several times, but I guess I have to give up. It sure would be a big help to DXers!" [I'm sorry to have to keep disappointing you, Ernie, but stereo, reports Bill Nienajadly, and it gives its IDs with the space available and computer program I am using other CT Public Radio network stations. Also on is will not permit it-it would also take too much of my WOSR *91.7, \$, Middletown NY with the "WAMC like you I am not getting any younger!]

Stephen West sent several PA area updates, and then noted on p. 7, March, West Palm Beach PA? Naturally that correction for WIRK 107.9 should read FL. WKSZ 100.3 Media PA now advertises a 50/50 mix of oldies the new stations coming on not just here but everywhere, and today. Supplying a list of Bible Broadcasting shows the need for phasing these new 'pests'. Fred Network stations was Ken Onyschuk. One of the latest Nordquist mentioned about 'torroids at 100 mHz' to be

[Yet the signal to the west in Troy is not good; perhaps is the sale of WSOC AM Charlotte to that religious network, forcing the FM on 103.7 to become WSOC"-FM" (from WSOC-FM).

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

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

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

On air and DX ready--WEDW *88.5 Bridgeport CT, in time to keep track of formats two ways-by geography Network." They put out an "OK signal here and they and by frequency, I want to cut down my workload, for are heard in the car. Rich Shaftan says they're very strong by him and Bob Smclarek gets WOSR well too. The 110 kHz filters arrived after only a four week wait; Digi-Key said originally 10-14 weeks. . . 1992 FM Atlas is great, another job well done! But the indication of all used for phasing and 'directional couplers'. I wrote to him asking for map). more info. Bruce, they repealed the 'mobile scanner law' here in NJ and replaced it with something more month's VUD of interest here. intelligent." Bill sent a copy of the act repealing PL 1977, c. 426. He also sent a story about WFMV 106.3 planning to relocate its antenna from atop a fire warden's along the Appalachian Trail. The new site will "have a negative impact on the trail and its 50,000 users annually," permitting the manning of the fire tower and WFMV not to have to leave the air. The tower ceased being used because of concerns of radiation to the personnel working

Dr. Joel Rosenburg says this "column has kept up-to-date on the Toronto FM wars, other than that CJEZ 97.3 has added more vocals, contemporary, and less elevator music. Blank carrier occasionally heard on 89.3; no sign of Rawlco [92.5] yet." D. Bruce Hall sent the BBM ratings from Toronto showing CFRB/CFRX still in the lead. "I was most interested to read in your FM News about the transplant of 110 kHz filters in Rich Shaftan's JVC unit since I use the same unit myself with three 150s installed, I wrote Bill Nienajadly to ask about any improvement and availability of 110s." [I have 10 of the 110s on order from Digi-Key; and they tell me they have an additional 10 on order. This makes it seem they only special order the 110s for DXers like us! Bruce says, "I hope with the arrival of my new 14th edition of the FM Atlas that it will bring along with it better DX conditions for better enjoyment of our hobby."

Mike Hogan gives the encouraging word that he's "finally back to WTFDA and FM DXing," I had a nice nice note from Gary Olson, mentioning surprise that the FM Atlas, which had been in the planning stages over 20 years ago when we lived in the Milwaukee area, is still around.

Writes Nick Lombardi: "The problem with FCC-FM these days is that it is a mere shadow of its former self. Many of the former categories aren't even reported any more, and those which are are often abbreviated or 'selected'." He then corrects on the location of Valley AL, being on the GA border near West Point (the West Point dot

should be in GA, not AL, p. 33 NY Chateaugay 94.7 WXEB

Now look for "See Also," where I summarize what was in last NY Smithtown 94.3 WMJC (WCTO), "Magic

New FM Station, Translator Grants AL Glencoe WZJV 93.1 3000 h,v; 100 m

AZ Tucson K255AC *98.9 (KJZZ 91.5 Phoenix; translator; had operated as K205BP 88.9) CA Sun City 92.9 3000 h,v; 100 m CT Pawcatuck 107.7 3000 h,v; 100 m HI Hilo 95.9 59000 h,v; -70 m, Pacific View Bosto. [91.1 Carlinville)

IL Jacksonville W212AN *90.3 (WIBI/ IA Sioux City K269EF *101.7 (KGBI 100.7 Omaha NE), transmitter S. Sioux City NE KS Clearwater (Wichita) 98.7 6000 h,v; 100 m LA Baker (Baton Rouge) 107.3 3000 h,v: 100 m LA Lake Charles K215A0 *90.9 (KVLU 91.3 Beaumont TX), on air [Rapids MN]

MN Bemidji K234AA*94.7(KAXE 91,7Grand/ MT Helena * 103.1 100000 h,v; 584 m, g, Hi-Line Radio Fallowship NV Incline Village K292EP 106.3 (KRNO-FM/ NV Reno K202BR *88.3 (KCJH 90.1 Stockton

CA), site 20 km SSW Radio, Inc. NH Hanover*91.3 150 h,v;378 m, NH Public/ NJ Belvidere 107.1 3900 h,v; 120 m, Radio NJ ND Beulah 97.9 6000 h,v; 100 m. OH Lebanon 97,3 3000 h.v: 100 m. McMurray

OR Prineville K240CG 95.9 (KNLR 97.5 Bend) TN Colonial Heights 105.9 6000 h.v: 100 m. TN Lawrenceburg W287AA 105.3 (WNDA 95.1) Huntsville AL)

TX San Antonio KYFS *90.9, \$, g, 3000 h,v; 91 m, Bible Broadcasting Network (calls changed from 88 3 etation) & Henry College VA Emory *90.7 100 watts h.v. 29 m. Emory/ VA Virginia Beach 102.1 3000 h,v; 100 m, Stacy [Tom Kwaitkowski C. Brody

WI Lake Geneva 96.1 3000 h,v; 100 m,/ VI Christiansted WIVH *90,1 500 h,v; 240 m, g BC McBride 101.1 19 watts h 104,1 19 watts h

Call Letters Assigned or Changed

AL Millbrook 97.1 WXEF CA Avalon 92.7 KRCI (KOUG) CA Paradise 96.7 KZZP (KNVR) CO Boulder 94.7 KHIH (KSSP), LMA with KOKS 104.3 Longmont CO Strasburg 102.3 KAGM

FL Cocoa Beach 101.1 WVRI (WSTF), rm FL Lecanto *88.3 WDSP (WZQF) GA Augusta 103,1 WFXA"-FM" (WFXA-FM; AM gets new calls)

GA Broxton 103.7 WXEA GA Fort Gaines *90.9 WJWV GA Toccoa 106.1 WLET-FM (WZLI), rk HI Hali'imaile 105.5 KWYA HI Honolulu 105.1 KINE-FM (KHFX); AM is in Kinnsville TX; m [Hawaiian music]

ID McCall 101.1 KMCL-FM (KMCL) ID Sun Valley *91.9 KWRV (KFTN), to be \$, c *90.1 WZ IN IN Brazil 97.7 WSDM-FM (WSDM) IN Bremen 96.9 WYEZ (WMJC)

IN Versailles 103.1 WXCH (WRIP) KY Eminence 105.7 WXLN"-FM" (WXLN-FM; AM in Louisville gets new calls) KY Louisville 99.7 WDJX-FM (WDJX)

MI Ann Arbor 102.9 WIQB-FM (WIQB; AM is in Saline MI) MI Gulliver 94.7 WCMM (WTIQ-FM) MN Waite Park 103.7 KLZZ (KXSS-FM), rm MD Potosi 97.7 KHCR (KWVR)

NE Norfolk *90.9 KPNO NV Tonopah 92.7 KHWK (KPAH) NH Manchester *91.7 WOCX NJ Villas 98.7 WFNN (WLQE), rm, "Fun 98.7" NY Catskill 98.5 WCTW (WDKZ)

NY Monticello 99.7 WXTM NY Morristown 102.9 WXED NY Rochester 97.9 WPXY-FM (WPXY)

OH Englewood 94.5 WZJX OH Wauseon 96.9 WZJU OR Coos Bay 106.5 KYYG-FM (KYNG-FM) OR Newport 92.7 KCLM

OR Seaside 94.7 KBRD (KQEM) OR Toledo 100.7 KZUS-FM (KZUS) PA Harrisburg 97.3 WRVV (WHP-FM) PA Mountainton 97.1 WYRM (WOZM) nt.

mono, parallel to WARM (AM) Scranton SC Georgetown 93.7 WSCA (WTUB) SC Pawleys Island 98.5 WDAI

TN Germantown 94.1 (from 94.3) WODZ (WFGI), "Oldies 94," to 50000 h,v; 144 m. d-a (directional antenna)

TN Millington 98.1 WPYR (KPYR) TN Newport 92.9 WNPC-FM TN Ripley 94.1 WTRB-FM (WYHF)

TX Austin 95.5 KKMJ"-FM" (KKMJ-FM: AM in Rollingwood agts now calls) TX Brenham 106.1 KTTX (KWHI-FM), "K-Tex" TX Dallas 105.3 KRRM (KRSR), "Young

Country 105.3" (and "FM-105") TX El Paso 94.7 KSET (KAMA-FM), k, new LMA with KPRR 102.1 El Paso [-Frog" TX Harlingen 94.5 KFRQ (KELT), k, "K-/

TX Luling 94.7 KFGI (KTG), a; LMA with KKMJ 95.5 Austin and its AM TX New Braunfels *89.9 KTSW (KQEJ) TX San Antonio *88.3 KPAC (KYFS), \$, o

(moving from 90.9, which will be KYFS) 99.5 KISS"-FM" (KISS-FM; AM in Terrell Hills [FM: AM gets new calls] gets new calls) Terrell Hills 106.7 KMMX"-FM" (KMMX-/

Tyler 92.1 KGLD (KROZ), o, "Oldies 92.1" Roy 107.9 KZDO-FM (KZDO; AM is in West Valley City UT)

UT Salt Lake City 98.7 KCPX-FM (KCPX) VA Staunton 93.1 WKDW-FM (WSGM), k. AM-FM simulcast [WAPP 105.5 Berryville VA Strasburg 104.9 WBPP (WESI), o, parallel to/

WI Nekoosa 93.7 WXEC WI Waunakee 105.1 WYZM (WIMN) MB Winnipeg 91.1 CKXL, \$, 233 m (58000 h,v),

on air F ["The Wolf" ON Peterborough 101.5 CKWF(CFMP), op,/

Facilities Changes Granted

AZ Buckeye KMJK 106.9 93 m (6000 h,v) AZ Oro Valley KRKN 97.5-35 m (3000 h,v) AR Jonesboro KJBR 101.9 323 m (100000 h,v) AR Little Rock KUAR *89.1 100000 h,v; 388 m CA Baker (new) 101.5 4600 h,v; 393 m CA Camarillo KELF 95.9 248 m (430 h,v), B1 CA Los Angeles KKLA 99.5 30000 h,v; 204 m CA Morgan Hill KSQQ 96.1 1000 h,v (238 m) CA Oakdale KDJK 95.1 16000 h,v; 267 m, d-a CA Quincy KNLF 95.9 (from 103.1) CA Riverside KHTX 97.5 72000 h,v (479 m), o, "K-Hits 97 5 FM"

CA Santa Barbara KFAC *88.7 12000 h,v; 264 m CA Vacaville KUIC 95.3 590 h,v; 594 m FL Goulds WRTO 98.3 429 m (100000 h,v), now "Radio Ritmo" (from "Radio El Sol")

FL Immokalee WCOO moving to 92.1 (from 98.3), off air because of WRTO going to a C FL Key Largo WZMQ 103.9 50000 h,v; 71 m, C2. from Tavernier FL I"back to FL Marco WGUF 92.7 4100 h,v (100 m), b,/

GA Leesburg WEGC 103.7 3200 h,v (100 m) IL Rantoul WLTM 96.1 3800 h.v: 123 m IN Rosnoke WOTX 94.1 (from 105.1) 2200 h,v;

IA Eddyville KK\$I 101.5 49000 h.v: 152 m IA Keakuk KDKX-FM 95.3 (remove from 96.3-unclear whether it will move to 96.3, or if another station will take over the 96.3 spot), naw "K Country 95.3"

FCC-FM

IA Muscatine KFMH 99.7 100000 h,v; 273 m KY Barbourville WYWY-FM 96.1 (from 93.5) 25000 h,v (91 m), C3 KY Greenup WLGC 105.7 (from 105.5) 11700/ LA Leesville KVVP 105.7 (from 105.5) 25000 h.v (100 m), C3

LA Natchitoches K280CK *103.9 has KVDP

*89.1 Dry Prong on it (from KAJN 102.9 Crowley) LA Varnado WBOX-FM 92.9 (from 92.7) MA Concord WIQH *88,3 7 m (10 h; applying for 100 w h) [98,7 2800 h,v; 150 m MI Grand Rapids WXJI/ (BK 101.7) MN La Crescent K201BW *88.1 (from K269-/ MN Springfield KLPR 94.7 (from 105.7) MO Ballwin KYMC *89.7 120 h,v; 52 m, adds [h,v; 148 m, C3 MO Columbia KCMQ 96.5 (from 96.7) 11000/ MO Moberly KZTT 105,5 25000 h,v; 94 m MO Warrenton KFAV 99.9 6000 h,v (156 m), C3 NH Keene WKNE-FM 103.7 12200 h,v; 302 m

NJ Oakhurst W244AS 92.7 has WOBM-FM 92.7 Toms River (from WHTZ 100.3 Newark) NY Middletown WOSR *91.7 1800 h,v; 192 m NY Stillwater WSSV 101.3 3700 h.v.: 126 m. OH Galion WOLX 102.3 3500 h.v: 131 m OR Klamath Falls KTEC *89.5 182 m (210 h v) OR Milton-Freewater KLUB 97.9 5100 h,v; 215

NJ Estontown WHTG-FM 106.3 3900 h.v (71 m)

m. C3 PA Nanticoke WYOS 92.1 760 h v: 202 m PA Tippa WPHD 94.7 820 h.v: 273 m. RI Middletown WOTB 100.3 8000 h.v; 92 m. d-a

SC Batesburn WKW0 95.3 6000 b.v (91 m) SC Ravenel WMGL 101.7 6500 h,v; 129 m SD Pierre KLXS 95.3 50000 h,v (91 m), C2 SD Volus KKQQ 102.5 (from 102.3) 25000 h.v. I(100 m), C3 74 m, C3 TN Waynesboro WTNR-FM 94.9 25000 h,v/

TX Canyon KAKS-FM 107.9 418 m (100000 [87 m (3000 h,v) TX Corpus Christi KBSD 94.7/ VA Norfolk WNSB *91.1 18000 h,v; 91 m,/

WA Wenatchee KSSY 104.9 6100 h,v; 403 m WA Yakima K201AS *88.1 (from K208BM 89.5; KYSC 88,5 not to be built?) WV Buckhannon W8TQ 93.5 2800 h,v; 164/

WV Ravenswood WRZZ 106,1 1840 h,v (184 m) BC Pemberton CK RW-6 106,7 4 watts h,v (16 m) ON Ohsweken (new) 100.3 to be nonprofit, but commercial, with eight hours a week of native-language material

BN Tijuana XHTIM 91,7 (from 103,3), but temporarily on 91.5. I am second-guessing they will move to 91.7, which KUSC's chief engineer agrees will be a "workable solution."

Stereo-or to be Stereo

AZ Cottonwood KVRD-FM 105.7, "Country

FL Miami WDNA *88.9 GA Sylvania WZBX 106.5 GA Valdosta WWRQ 107.7 rp. "0-107"

KY Madisonville WTTL-FM 106.9 LA New Iberia KKZN 93,7 rp, "Z-93,7," ID with Lafavetta, parallel to KVOL-FM 105.9

Opelousas-Lafavette MN Browerville KXDL 99,7 MN Rushford KWNO-FM 99.3

MO Sparta KLTQ 96.5, k, LMA with KKHT 98.7 Springfield and its AM; "Hot Country 96.5." Not "off the air," as shown last month

NE Lincoln KFGE 105.3 NM Roswell KVNB 104.7 NY Ravena WRAV 94.5

OR Harbeck-Fruitdale KAJO-FM 98,3 PA Berwick WKAB 103.5, a, SMN Pure, "B-103." A "surprisingly good signal."

TN Harrogate WXJB 96.5 TX Amerillo KAEZ 105.7, no commercials and "very week."

TX Floresville KWCB *89.7 VA Narrows WZFM 101.3

Monophonic CA Falibrook KBAX, e, and Ventura KAXX

107.1, e, both mono, as is KMAX Arcadia, getting the KMAX signal via 7.5-kHz phone lines, "The FCC does not care whether a station actually sends out a high fidelity signal-only that it is capable of it, and besides it has done away with the annual proof-of-performance tests for stations." IN Sullivan WND I-FM 95.3. "Has been known to simulcast Terre Haute NWS for up to 10

minutes. Has an erratic schedule. IA Des Moines KDPS *88.1, KUCB *89.3 IA West Des Moines KWDM *88.9

Format Changes

Formats are the same as in the "FM Atlas" AL Enterprise WDJR 96,9 k AL Fairhope WZEW 92.1 rp AL Florence WXFL 96.1 rm, \$1 tereo] A1 Hartselle WYAM 106 1 r "City FM" AL Union Springs WSFU 94.1 s

AZ Phoenix KKLT 98.7 rm, "The Light One" AZ Prescott Valley KIHX 106,7 r. "Kicks 106." and "IDs their translators on the hour" AZ Tucson KUAZ *89.1 j, "Z-89," to simulcast

AR Bella Vista KBVA 106.5 m, adult/ AR Glenwood KWXE 104.5k, \$,"Quixie,"

narallel to KWXI 670 AR Texarkana KTWN-FM 107.1 r, "Star 107, All Hit Radio" (from "107 K-Twin") CA La Quinta KBZT 96.7 k, Unistar Country CA Secramento KOPT 100.5 p FL Chiefland WLQH-FM 97.3 k FL Coral Gables WHQT 105.1 r

FL La Belle WKZY 92.5 Spanish, I FL Naples WBPT *89.5 r, simulcast with WJYO Fort Myers, "dunno if stereo" FL Pensacola WMEZ 94.1 rm, WJLQ 100.7 rm FL Port Charlotte WEEJ 100.1 r, "progressive

MOR," but "I'd just call it r" GA Rome WKCX 97.7 r, not rm IN Austin WJAA 96.3 rp, "Radio 96.3" IN Nappanee WLRX 95,7 mr. \$. ID with Goshen and Elkhart (not with Wareaw any more). "is

taking a bite out of WEFM 95.9 [Michigan City's coverage area' IN Washington WAMW-FM 107.9 mr IA Des Moines KLYF 100.3 rm, Format 41 nites

IA Iowa City KKRQ 100.7 o, "Oldies 100.7" IA Jefferson KISN 98.9 m IA Pella KFMG 103.3 pj, "a combination of

rock, jazz and blues' KY Burnside WJDJ 93.9 o. LMA with WSEK 97.1 Somerset (not "off air")

KY Lauisville WZKS 103.9 k, LMA with WDJX-FM 99.7 and AM KY Williamstown WNKR 106.5 k LA Bunkie KEZP 104.3 mr, "EZ-104," ID with

[lel to WADU 830 Norco Alexandria LA Reserve-Laplace WADU-FM 34.9 b, paral-/ ME Caribou WCXU 97.7 rm

ME Lewiston WTHT 107.5 o, "Oldies 107.5," losing "Thunder

ME Thomaston WAV X 106.9 to be c. 24 hours, in April, replacing the format WMCM 103.3 Rockland had MD Federalsburg WOMR 107.1 rs, still/ MA Pittsfield WTBR *89.7 te, back on air with

talk most weekday hours, ethnic weekends. A new amplifier has brought it back to legal power (it was running on just its exciter). A financial commitment from the school board and the Lichtenstein Foundation, as well as underwriting efforts, will help to assure its financial success. No longer just a "disc jockey station."

MI Mount Clemens WXCD 102.7 p, "Z-Rock" MI Munising WHCH 98.3 k

MN Ortonville KCGN 101.5 g, not gr MS Oxford WOXD 95.5 n MO Canton KBXB 102.3 o, still "B-102"

MO Lexington KCFM 107.3 r, LMA with KXXR 106.5 Liberty-KFKF 94.1 Kansas City KS,

No call letters changes for 106.5 and 107.5 vet, "KXXR already had an LMA with station KIDZ 1510 kHz, which has been dropped, KIDZ is now off the air. On a good tuner there's little degradation, but middtown and south Kansas City are blanketed with RF-on an overload-prone tuner, KCFM cen't cut through the intermod."

NH Conway WMWV 93.5 rm, not "off the air" NJ Long Branch WZVU 107.1 o, "Seaview 107" NJ Trenton WPST 97.5 rs

NY Cape Vincent WKGG 102.7 rm, parallel to WTOJ 103.1 Carthage NY, "Lite Rock 103," ID with Kingston ON; is it \$[tereo]?

NY New York WHCR *90.3 js and "variety," [102.5," no multi-city ID NC Hendersonville WMY1 102.5 rm, "My/ NC Sanford WFJA 105.5 o

ND Minot KIZZ 92.7 rm, not "off the air" KBQQ 99.9 r, Unis. Adult Rock OH Ada WONB *94.9 jr, S, "Rock 95" OH Clyde WNCG 100.9 o

OK Clinton KCLI 95.5 (but still on 95.3) k KSWR 106.9 k, "Star 107 FM" OK Enid KOFM 103.1 r, top 40 (from b)

OK Lindsay KBLP 105.1 k OK McAlester KMCO 101.3 k OR Grants Pass KYJC-FM 96.9 k, "K-97"

PA Telford WBMR *91.7 g (from c). "A translator on 107.9 in Philly? Wouldn't that interfere with WHHS 107.9 Havertown PA? I haven't heard WHHS in a while, but I helieve they were switched from 89.3 to 107.9 recently."

PA Tunkhannock WYMK 107.7 rp, Unistar Niche I"Classy FM") 29 SC Marion WKSY 100.5 k, "Kix" (from/ SC Screnton WSON 102.9 rm TN Dickson WQZQ-FM 102.5 b, JSA Easy

Listening, "Super Audio" (strict), "I have yet to hear a legal ID, even on the hour." Ends simulcast with WYCQ 102.9 Shelbyville. TX Clarksville KCBZ 98.5 o, "Oldies 98.5" TX Tulia KJMX 104.9 rm, "Mix 104.9"

VA Arlington WAVA 105.1 g, "following owner ship transfer from Emmis to Salem. VA Berryville WAPP 105.5 o, parallel to WBPP

104.9 Strasburg WA Camas KMUZ 94.7 m, to team with now-silent KKGR 1230 Gresham OR.

WI Minocqua WMQA-FM 95.9 mr

On Air (Selected)

AZ Flagstaff K276CF: "Heard into the fringes of Kingman, many, many miles away!" FL Summerland Key WPIK 102.9, back on with/ IL Morris WCFL 104.7, with the FCC

modifying its directional antenna permit IN Loopootee WKMD 94.3, but "does not ID. In fact, it doesn't usually have announcers. DXers beware! Their format varies as to what's loaded in the CD changer. . . No ads

either." LA Kentwood WXLT (having moved from McComb MS) 94.1 is "applying for a transmitter location near Clinton LA, NE of Baton Rouge, BR will be saturated.

NY Middletown WOSR *91.7, \$, "WAMC Network," with only a top-of-bour ID with WAMC's other stations

NY New York city area-"WNCR" 91.9, \$, "Nassau County Radio," (516) 285-0856; "WFUN" 95.1 Brooklyn area, (718) 232-3186. Both pirates.

PA Easton WJRH *90.5, following school break, but still not on 104.9 TN NashvilleW271AB 102.1, "strong signal"

Off Air, or Not Yet On

AZ Sedone KSED 107.5, "They lost rights to their antenna site" AZ Willcox KWCX 98.3 and its AM AR Barling KOLX 94.5

AR England KLRA-FM 96.5 AR Gurdon KGAP 92.7 "still off the air" AR Stamps KZHE 100.5, still on 100.9 CA Grover City KWCD 107.3, "CD-107"

FL Gretna WGWD 93.3, still on 100.7 FL Panama City WPFM 107.9 "temporarily"

FL Tallahassee W249BA 97.7 GA Harlem WHEY 95.1

GA Martinez WMTZ 93.9, still on 94.3 GA McDonough WMVV *90.7, "The one-bay antenna is still downtown. The church that owns it wants to move everything to a site north-increased power, etc.

ID Mountain Home KLVJ-FM 99.1 and its AM IA Lamoni KLAL 97.7 DK Sallisaw KKID-FM 95 9 and ite AM

PA Mount Carmel WXMH 99.7, "Their lease agreement with WISL 1480 Shamokin PA fell apart, as did their previous LMA with WHTO 103.9 Muncy PA.

PA Salladasburg WKHL-FM 95.5, still off PA Scranton WUSR *99.5

SC Marion WWPD 94,3 SC Moncks Corner WJYQ 105.5

TN Nashville WFSK *88,1 "still off, Suspect this

W234AB 94,7-"just WGSQ 94,7 Cookeville, which has a pretty good signal here and is going to give this translator a run for its

TX Bandera KHLC 98.3

TX Borger KDXR 104.3 TX Canadian KRBG 94,9 TX Claude KABX 95.7

TX Hereford KMAZ 103 5

TX Lubbock KE IS 106 5 UT Kanab KCKK 101.1

Deletions

MO Macon KZOX 99.9, unbuilt CP NV Jean K232CP 94-3

OH North Canton W220AD *91,9; WFRJ said 'they never used it" OR McMinnville K224BW *92.7

PA Reading WBYN-1 107.5

SCS Changes, 67, 92, 78.67 kHz Symbols are as in the "FM Atlas"

DC Washington WJZE 100.3 †E. 67 (from †R) OH Akron WZIP *88.1 †T, 67, moved from [67; had †X) WKS11 *89 7 OH Canton WTOF 98.1 no SCS (carrier only./

OH Cleveland WCPN *90.3 no SCS (had †T, 67) OH Kent WKSII *89 7 no SCS (had tT 67) OH Salem WOXX 105.1 no SCS (carrier only, 67;

had tM) (†M; retains †X, 92) OH Youngstown WKBN-FM 98.9 no 67 (had/

Secondary Audio Program underutilized on TV. MacNeil/Lehrer Newshour has a Spanish translation, plus there is some foreign language use of it on commercial TV in Los Angeles.

The Music 4 system, said to be "a failure. The equipment was too expensive, lacked portability, and the sound was not that great." Only in Los Angeles and Atlanta has it been used, and Atlanta is believed to be the only market where it is currently employed.

"The 1992 FM Atlas is great-another inh well done!" "The FM Atlas certainly is un-to-date Thanks again for modifying the radio and send Catalog No. 12 when it comes out."

"Jut wanted to thank you for the great radio (Gran Prix) with mods. It's nice not to have to listen to commercials any morel*

FMistakes FM Atlas-14

FL Jacksonville p. 140 calls for the booster are WOKV-FM1 (not WIOI-FM1)

KS Ogden KOLA 103.5 (moving from 103.9);

Music 4 SCSystem Not Worth DXing list on p. 181 (103.5) as 50000 h.v: 93 m.

MA Waltham WCRB 102.5 SCS data covers up coverage (52 km), p. 115 OR Corvallis KEJO 101.5 data misaligned, p. 176

See Also March VUD For

AL Fairhope WZEW 92.1 rp, Falconer, p. 31 CA Julian KBNN 100.1 "Kabin 100.1 FM," ID with Ramona; is it \$[tereo]? Lobel, p. 25 FL Coral Gables WHQT 105.1 r, "Station News,"

FL Holmes Beach WISP 987.7 "Wispy 98.7"; is it \$[tereo]? "Station News," p. 33 FL Pensacola WMEZ 94.1 apparent format change to rm, Falconer, p. 31

GA Gordon WNEX-FM 107,1 107-X, "Station News," p. 33 IA Jefferson KLSN 98.9 m, not b, Hawk, p. 30

KS Great Bend KZXL 107.9 Z-108 (from "XL-108"), Hawk, p. 30

KS Ogden KOLA 103.9 (moving to 103.5); list on p. 181 FM Atlas-14, to be 50000 h,v h,v; 93 m. Hawk n. 30 MN Cambridge WLO L now 105.3, having moved

from 105.5, "Station News," p. 33 MN Thief River Falls KSRQ *90.1 not "Theif River Falls," p. 12. Let's all strive for more accurate spellings in the VUD!

MO Columbia KFMZ 98.3 ID with Jefferson City, Felconer, p. 31 NY Auburn WPCX 106.9 Country 106.9 (from

"Picks 106"), Shaftan, p. 33 NY Cape Vincent WKGG 102.7 Lite Rock 103, ID with Kingston ON; is it \$[tereo] 7 "Station News," p. 31 [-94"), Hall, p. 34 NY Dansville WACZ 93.9 Lite 94 (from "Z-/ NY Jamestown WNJA *89.7 is not a translator,

but a full power relayer, Ross, p. 12 UH Chillicothe WFCB 94.3 FCB-94 (from "B-94 FM"), Hall, p. 34 OK Ketchum KGND 107.5 K-Grand, Hawk,/

PA Telford WBMH *91.7 apparent format change to g from c, Oetting, p. 35 NL Sabinas Hidalgo XHSAB 89.5 mono, assumed

temporary, Hawk, p. 30 Thanks, Greg Coniglio, "Column Notes," for the nice FM Atlas plug, p. 30, and to the club for the nice ad, Feb., inside back cover.

NonIDs In Use

Mentioned usually without call letters: "strict" if a station only uses call letters once per hour as required by the FCC (at or near top of hour) AR Ashdown KARQ 92.1 Q-92 All Hit Country (from "Country 92")

AR Camden KCAC *89.5 KC-89: is it \$? KWEH 97.1 uses calls of KAMD 910 which it simulcasts (except at top of hour; was "FM-97") Itry 105

AR Crossett KAGH-FM 104.9 Super Coun-/ AR El Dorado KBLT 95.9 Lite 96 AR Hot Springs KBMB 96.7 KB-96 AR Malvern KISI 101.5 Sunny 101.5 AR Warren KWRF-FM 105.5 uses calls, not "Magic 105" ["Bright 99-5")

DE Wilmington WJBR-FM 99.5 Mix 99-5 (from/ FL Fort Lauderdale WAXY 105.9 Waxy 106 (back to, from "Mix 105.9")

FL Homestead WXDJ 95.7 Radio El Sol (from "Radio Ritmo," which goes to 98.3-see "Facilities Granted" above, ending LMA) FL Miami WQBA-FM 107.5 FM 107.5 (in

Spanish; from "Super Coo" FL Sarasota WHPT 102.5 The Point GA Gordon WNEX-FM 107.1 107-X IL Macomb WJEQ 102.7 Rock 103, ID with

Galesburg IL Marshall WMMC 105,9 Oldies 108 (from "Cool 106"), ID with Terre Haute

(IN)-Charleston IN Elkhart WLTA 100.7 Lite FM IN La Porte WCOE 96.7 The Eagle, COE stands for Ken Coe, owner. "Their AM, WLOI, is

simulcasting the FM" temporarily

IN Greenfield WZPL 99.5 ZPL IN Spencer WSKT 92.7 KT-93 (not "Hot Kickin" Country"), ID with Bloomington, but not with Ellettsville any more IN VincennesWVUB *91.1 Easy 91(from/ IA Ames KEZT 104.1 Light 104 IA Ankeny KMXD 106.3 Soft Mix 106.3

IA Fairfield KIIK 95.9 Kick 96, ID with Ottumwa, "but their signal is bad in some areas [of Uttumwa] and they've quit doing promotions here" L"Country 92" IA Delwein KOEL-FM 92.3 High Country (from) IA Oskaloosa KBDE-FM 104.9 Country Connection. "They're trying to be more regional." KY Henderson WKDQ 99.5 KDQ 99.5 (from

"KO-99") [ing "Fun Radio" LA Alexandria KQID 93.1 still 93-QID, not us-/ LA Benton-Shreveport KLXL 92.1 Oldies 92.1 FM (from "Enol 92.1") LA Dubach-Ruston KPCH 97.7 The Peach

LA Shreveport KWKH-FM 94.5 94 Country (from "Radio Ranch") MD Raltimore WRSR 104 3 Variety 104 3 (from

"B-104") but still r ("bot AC") MN Duluth WAVC 105.1 FM-105 (not strict) PA DlyphantWZZV 95.7 Z-95: is it \$? TX Amerillo KATP 101.9 Rock 102, The Cat. TX Commerce KETR *88.9 The Mint UT Provo KZOL 96.1 X-96 (from "K-96.1") PQ Montreal CJFM 95.9 Mix 96 (from "FM 96")

Multi-City IDs in Use AR Maumelle KOLL 94.9 still IDing as Pine Bluff-Little Rock T100.1 FM* CA Julian KBNN 100.1 with Ramona, "Kabin/ CT Norwalk WEFX 95.9 with Greenwich, "95-9 the Fox" Bethany MO IA Osceola KJJC 106.9 with Des Moines-/ LA Bastrop KTRY-FM 94.3 with Monroe-West

Monroe, "Touch 94.3" KRVV 10u.1 with Monros, "The River 100.1"

AM Happenings Most Likely Caused by FM (Selected)

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

FM Rulemakings Proposed

First date is deadline for filing comments at the FCC; second date is for replies. Stations affected, if any, are listed.

AR Dumas 106.9C3 for 107.1A, KXFE, Apr. 6, 21 AR Marianna 105.3A for 106.9A, with Dumas CA Fort Bragg 95,381 for A, KOZT, Apr. 10, 27 CA Quincy 182.1A for C2, KQNC, with Shingle FM. Apr. 3, 20 Springs CA Shingle Springs 101.98 for B1, KFIA-/ HI Poipu 95.9A, Mar. 30, Apr. 14 KY London 92.3C3for 92.5A, WYGE, Apr. 6,/ KY Hazard 92.5A for 104.7A, WJMD, with Lwith London KY Hyden 104.7A for 9z.3A, WZQQ,/ 73,03 SATELLITE NEWS George W. Jensen 4604 Anntare Aug 1604 Anntana Avenue timore, MD 21206-4220

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

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

Sat. Market USA noted on W5 XPDR 15.

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

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

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

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

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

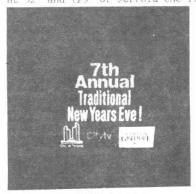
That's all for now - hope to see you in 30. 17318

FL Tallahassee *91.5 is WFSQ (not WFSU), p. 30 GA West Point is shown as being in AL, p. 33 map IA lowe City KRNA map p. 48 should show its frequency as 94.1

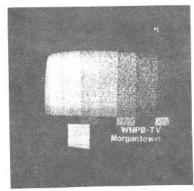
12284 Nice Road

Akron NY 14001-9529

William Erkberg - Dixon Illinois starts off this months installment of Photo-Kews. Equipment: 1966 Zenith b&w tube type receiver model ch 14%22, modified Zenith 175-2225 detent tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish with RDX Labs UA900 (round) preamp at 52' and 125' of Jerrold CAC-11 coax.



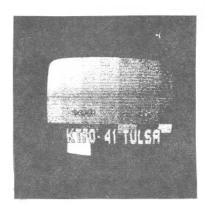
CITY2-31 Woodstock, Ontario 442 mile tropo seen December 31 1991 at 0220 CST



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



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



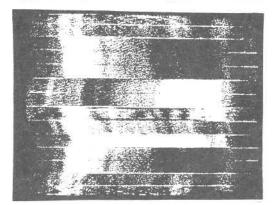
KTFO-41 Tulas Oklahoma 519 mile tropo seen January 4 1992 at 0450 CST "new call"

PHOTO-NEWS

PAGE TWO

APRIL 1992

Next is Joop J. Prosee - Spanbrock Holland.



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

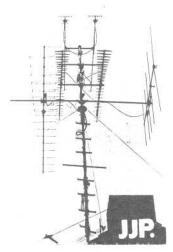


"Russian S/off slide, received via Es on Chl. R1. The slide reads in Russian: "Don't forget to switch off vour TV set."

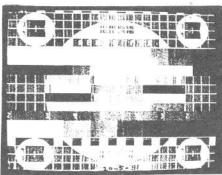
From your editor; remember to include ALL information about the photos you send in. This should include: station call or name, the city of license. province or state: country if not Canada or United States. Distance in miles or kilometers but state which one you used. Mode of propagation. Date of photo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

More from Bill & Joop next time.





"my highest DX-mast with a topheight of 15m (50 feet) with on top two stacked Vagi's for Chls E55-E70. Going downwards, two stacked TeWeA/PHILIPS TV21 65/40MULTIWING UHF-antennae for Chis E21-E65. Normally I use four stacked MULTIWINGS but two are to be overhauled. Below left, TELECASTER 30818 Band-3 antenna for Chis, E5-E12(174-230Mhz) this is a LogPerYagi with 8 I-Match dipoles 1 Yagi reflector and 9 Yagi directors. Below right, vertical mounted LogPerVagi for 47-100Mhz with 4LogPer dipoles and one Yagi director."



"Russian LIET taetcard via Es TX Leningrad (now St. Petersburg). ID /IEHWH/PAA in top. 240kw ERP, offset Zero, distance 1710km.

GREG CONIGUO 5100 GLENWOOD DRIVE WILLIAMSVILLE, NY 14221

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

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

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

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

DECEMBER 1991 DX CST

21 Tr 1958 WLRX 95.7 IN Nappanee, local basketball and spot. 2015 WPBK 97.5 MI Whitehall, k, claiming #1 Muskegon Country



2358 WXAV 88.3 IL Chicago, sign off after blues program

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

WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON L6Y 417 (EST)

Equipment: modified JVC R-X330V w/indoor dipoles

DECEMBER 1991 28 TR 1846 CBON21 104.9 ON Gogama (FF. 15 db) 29 TR 0105 CBON17 95.1 ON North Bay (FF // CBON21, 10 db) 0108 CKLP 103.3 DN Parry Sound (Music Radio, 10 db) 0109 CJRQ 92.7 ON Sudbury T (Rock Radio Natwork, 10 db) JANUARY 1992 2359 WIYQ 99.1 PA Ebensburg-225 Johnstown-Altoona

FEBRUARY 1992 6 TR 0000 WDBA 107.3 PA Du Bois 175 160 0202 WLMI 103.9 PA Kane-Warren-(u/CBBP) Bradford 0322 CKAT 101.9 ON North Bay (k) 6 GW 0346 <WRQI> 95.1 NY S Bristol-Roch 133 (ex-WSZH, 'Rocket-95', 15 db)



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

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

NORTHERN FM DX

APRIL 1892

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

Equipment: Carver 1x-11 tuna IF filter medicated, Channel Master Stereo Probe 9 at 26' 13.1875629" above ground level. Alliance HD-73 router and RG-11 coax. New loggings are undermined. New propagation mood www. New call [KKKK].

JANUARY 1959 DX		DECEMBE
1 Groundwave & troposcatter		31 tropo
(from Buffalo)		0832 WPH
0900 WBEN 102.5 NY Buffalo, ID.	m mone 20	JANUARY
0921 WWCL 164.1 NY Buffalo, cal	l k mono 4	18 tropo
1000 WBAY 92.9 NY Buffalo, ID,	m mono 16	1520 WRV
1017 WJTN 93.3 NY Jamestown,	call, m mono 65	23 tropo
1059 WINE 103.3 NV Buffalo, ID/	1080 AM, r mono 14	1447 WIZI
3 tropo & Groundwave		CONTRACTOR AND
0759 WWJ 97.1 M! Detroit, cal	1, m mana 230	28 Meteo
0901 CFRB 99.9 ON Toronto, ca	II, m mono 70	0854 [WX
1000 WRRL 107.7 NY Wethersfield	d, ID/WRRC,WRRD,	
WRRA, URRE & WQXR, C	maria 37	19901 WRQ
1200 CBL 99.1 CN Toronto, ID.	c mono 70	FEBRUAR
1401 CHFT 98.1 DN Taranto, (D.	, me mono 70	16 Meteo
1437 CKLE 93.9 ON Oshawa, cal	1//1350AM, m 71	1025 WIAI
2200 WHDL 95.7 NY Allegheny, 9	s/off, c mono 65	
2201 WERC 99.9 PA Erie, cail, m	mona 90	17 tropp
8 LEBBB		0814 WHK
0800 <u>WXYZ</u> 101.1 MI Detroit, ID/	/1270AM, r mana230	The second second
		words a second

DECEMBER 1991 DX	
31 tropo 0832 WPHN 90.5 MI Gaylord, ID, 9\$	337
JANUARY 1992 DX 18 troposcetter	
1528 WRVL 88.3 VALynchburg, call, gS	386
23 troposcatter 1447 bilZN 106.7 VT Vergennes, call+	
"THE WIZARD", op\$	277
28 Meteor & tropo scatter	
0854 [WXXL] 106.7 FL Leesburg, "XL-106.7" ex-WHLY, prev. E-skip	995
1901 URQX 107.3 DCWashington, "MIX-107.3"	292
FEBRUARY 1992 DX	
16 Meteorscatter 1025 WIAI 99.1 It Danville, call	
female voice "WIAI"	509
17 troposcatter	371
6814 WHKO 99.1 OHDayton, call, k\$	3/1

I sent for and received the distance printout from Fred Nordquist (see Feb. 1992 VUD NFMDX column middle of page 26). I got one for Akron and Rock City DX locations. It will make looking up stations distances much easier. Fred didn't ask for but I sent along a S.A.S.E. and the \$2.00 each with my order. Seen a drawing of a simple antenna phase box designed by ETVDX editor Bill Nienajadly.

I have to give it a try. Dave (Dave, I guess these are in violation of the log cutoff policy, hi. GC)

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

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

FEBRUARY 1992 DX 4 GW(CST)

2000 KPGE 105.3 NE Lincoln, \$, k format 'Lincoln's Froggy 105.3', or 'Hot Country'.

2200 KKBZ 106.1 Th Shenandoah, NEW CL's. ex KMA-FM; CNN news, Oldies forma 'The New B-106'.

20 GW

2000 KXXR 106.5 MO Liberty, now k; ID as 'The New CJ 106.5'; preobably will change call letters

	4 Tr				
	2202	KYSM	103.5	MN	Mankato
	2206	KEEY	102.1	MN	St Paul, \$, K-102
	2230	KWOA	95.1	MN	Worthington
	2300	KNSR	88.9	MN	Collegyille, APR
	2315	KTCZ	97.1	MN	Minneapolis, AOR
t,	5 Tr				
22.57	1221	WJOD	107.5	IL	Galena, k
	1223	KRDI	100.5	IA	Decorah, \$, AC/AOR
	1227	KFMH	99.7	IA	Muscatine, \$
- 1	1230	WCOW	97.1	WI	Sparta, \$. WT#2
- 1	2123	WZOK	97.5	Π	Rockford, 97-ZOK

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

98.3 NB Moncton, likely the one

748

120

JEFF FALCONER - BOX 63 - CLINTON, ONTARIO CANADA NOM 1L0 Equipment: Magnum Dynalab FT-101A, Probe 9 at 27 feet with rotor, RG11 feedline, Mag. 205 amp. JANUARY 1992 3 MS DECEMBER 1991 DX 28 Tr-super opening, first time I have ever seen a 0256 CBAL duct to the north! 99.1 MI Iron River, k\$, ID with CBC French mono network 1916 WIKB 0308 CKSB7 93.5 ON Kenora, same 2050 CBON28 91.9 ON Chapleau, CBC 0433 WCOS 97.5 SC Columbia, calls French Mono 0713 WPLR t 99.1 CT New Haven, ".. of New 2054 CBON24 90.7 ON Kapuskasing, same 402 2058 CBLJ 88.3 ON Wawa, CBC EE mono 343 2100 CBEB 89.7 ON Maniyouwadge, CBC English Mono 2102 CBON27 90.7 ON Wawa, CBC FF Mono, strange echo effect with antenna between this and CBON24 2111 CBLG 89.1 ON Geraldton, CBC EE mno 491 2112 CBON22 93.7 ON Gerladton CBC French mono 2120 <u>CBON20</u> 89.3 ON Thunder Bay,same 2125 <u>CBON25</u> 97.1 ON Timmins, same 499

2131 CBON19 97.3 ON Nipigon, same 2141 CBON5 101.7 ON Elliot Lake, CBC FF

Mono, over local CKNX, same direction!!

2245 WKLA 106.3 MI Ludington, rm\$

0144 CHAS 100.5 ON Sault Ste Marie,

ID\$, weather report.

29 Tr - dving out

Haven was stabbed would have been new state 0720 WHFS t 99.1 MD Annapolis, "in Prince Georges County" This would have been a new state too, sigh. 1240 WSDP 88.1 MI Plymouth, rp\$, ID rare here since CBEE came on 0401 WQIK 99.1 FL Jacksonville, "FM 99 WQIK, specializing in today's hottest k" 21 GW 97.3 MI Essexville, k\$, uses 0144 WIXC Wixie or Country 97 non IDs, new stn 116 204 FEBRUARY 1992 14 MS 0026 KMAG 99.1 AR Fort Smith, "99.1, 0048 [WCKC] 107.1 MI Cadillac, k\$,exWYTW196 0118 CJQQ 92.1 ON Timmins,r\$, Q-92 336 thanks for making us Fort Smiths " **MARCH 1992**

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

1 TrS

dBRUCE HALL - 5 STIRTON AYE. - BRANTFORD, ONTARIO CANADA N3T 1E3 Equipment: JVC JR-S201 receiver modified with 3 150 khz filters, Magnub Dynalab 205 Signal slueth, Probe 9 fed with RG6 at 50' AGL, Crown Rotor. Phase: Delhi TV antenna at 40', in line attenuator. Thru 2 way splitter hooked in reverse to tuner, same rotor. (distances are in kilometres)

FEBRUARY 1992 DX 3 TrS 0736 WKJC 104.7 MI Tawas City, k, FM 104 295 after Chemical bank ad, KJC weather 0802 WCLG 100.1 WV Morgantown, r, CLG-FM "WCLG-FM Morgantown, the home of ---" 391 7 MS. TrS. & GW 0806 <u>WNLT</u> 95.7 FL Clearwater,r, lite rock 1702 0827 WCLR 95.7 OH Piqua, b, "Clear 95.7 WCLR with Chicago "Right before my very eyes" 483 1629 {CKRZ} 100.3 ON Ohsweken, multiple format "more music on 100.3 CKRZ Grand River Country" ex CFNC, licensed to go to 250 watts, but were still using 50 watts when I called them, mono 25 15 TrS 8 TrS 0858 WLIF 101.9 MD Baltimore, mr, Lite 102

after Holly Farms ad, Vicky Cox nx update 529

9 TrS & MS 0649 WLEN 103.9 MI Adrian, legal ID, k 0700 WWIZ 103.9 PA Mercer, Sharon, Y'Town k, I104 jingle, Mutual News 0814 WOKO 97.5 NH Dover, "Area cal 463-9750

from the SeaCoast, Portsmouth, and Exeter" 726 22 TrS 0817 WCIZ 97.5 NY Watertown, CIZ, "The rock and roll authority, CIZ FM", Bob Seger 334

0646 WJIM 97.5 MI E.Lansing, b, EZ 97.5, TC 355 0654 WOBE 97.5 WV Charleston, k., Q97, ad 541 0701 WONE 97.5 OH Akron, "The home of rock 258 rock and roll 97.5 WONE FM" 529 0803 WPST 97.5 NJ Trenton, r, calls 12 TrS 0749 WQRT 98.3 NY Salamanca, k, "98.3 WQRT the home of real country music" 0722 WRKU 95.1 PA Grove City, op, 95 K-Rock "Super Dave and Tina" morning show 0757 (WRQI) 95.1 NY S.Bristol, r, Rock It 95 and legal ID, new calls, ex WZSH, Wish 95 231 0759 (WKMF) 101.7 MI Tuskola, k, KMF, new calls and format, ex WGMZ.

1700 (WNCG) 100.9 OH Clyde,r\$,ex WLCO 175

0729 WDKX 103.9 NY Rochester, s, "Best variety on Rochester's early morning show" 230 0730 WSRD 104.9 NY Johnstown, o, calls

437 'Zippo in the morning" 0813 WSVS 104.7 VA Crewe k, "music that makes

the difference, sunday morning gospel",calls 690

Report to the VUD!!

NORTHERN FM DX

APRIL 1992

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

BEEPER FOR DX: (201) 955-4256

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

FEBRUARY 1992 DX

4 TrS

1751 98.9/100.5 Rochester in strong in Ogdensburg \$24 GW Sussex Co., ten miles north and west.

8 GW & TrS

2030 WOSR 91.7 NY Middletown, Irish mx with WAMC ID at the top of the hour. Strong but not so strong as to obliterate the channel.

2300 WXLY 90.3 PA Schnecksville, Cl., ID 12 TrS

2130 WSSH t 99.7 PA Pittsburgh, "Wish Delight the new 99.7 FM"

19 TrS

2148 WKFM 104.7 NY Fulton, car in Fairfield, NJ 20 TrS

2146 WENU 101.7 NY Hudson Falls, car in Montville ₹ 21 TrS & GW

1506 WDBA 107.3 PA DuBois, car in Parsippany,NJ ₹29 IrS 2200 WEDW 88.5 CT Fairfield, on air, apparently 💲 2200 various bizzare image of Radio Japan from 5.96 non-directional

2300 WSK8 89.3 NY Binghamton, ID thru WLJP 2343 WVOS 95.9 NY Liberty, ID thru WADB, both of these logged via phasing

2359 W??? 99.7 NY Middletown? beam north. oldies and 1950s car ads. Sounded like a pirate \$\frac{\text{MARCH 1992 DX}}{\text{DX}} but could be this testing. Heavy metal next nite \$1.Tr

2022 unID 105.7 "Hot Mix 105.7" (Rich, was the beam north? WHMX in Lincoln, Maine uses that!-gc)

REQUEST LINE NO: 219-467-9500

JANUARY 23 MS

0033 WODJ 107.3 MI Greenville, "... WODJ..."

2327 W244AS 96.7 NJ Oakhurst, now with WOBM

26 TrS 0005 WNPR 89.1 CT Norwich, strong w/WFDU.

WNYU, and WWFM off the air 0014 WMHT 89.1 NY Schenectady, classical, NPR

0058 WCID 89.1 NY Friendship, religious program

In next night as well. WNYU and WFDU have been off the air for several days (still as of 2/28) 27 TrS

1650 WLJP 89.3 NY Monroe, off the air for several days w/dominants WPFW Washington, DC, WSKG in Binghamton, NY; WCNJ Hazlet, NJ; WRDV Westmistr NJ as regulars, slight trace W207AK Bethlehem.PA

Mhz all over the dial, beam NW, fading in and out Can't explain (Hope it's not the radio, has it disappeared since then?-gc)

2300 WRGN 88.1 PA Sweet Valley, ID WNYU, WFDU, and WLJP all back on

1100 WJFF 90.5 NY Jeffersonville, ID in North Bergen, NJ with very solid signal

\$2355 WRPR 90.3 NY Mahwah, ID and s/off, weak 2359 WNJT 88.1 NJ Trenton, ID and s/off, very weak, FM Atlas lists as 15 watts vertical.

Number one DX concern is new proposed Mañahawkin NJ station on 105.7 which will probably kill the channel.

Bill Nienajadly PO Box 2999 Clifton NJ 07015-2999

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

Current equipment set up, 2 Radio Shack 6 element FM only antennas on two separate rotors spaced 10 feet apart. RG-59 coax 100 ft length each line. Andy 30lin's phase box, Pioneer TX-9800 tuner modified w/two 180's & three IlO's, plus various splitters. And no DX, Goodxing!

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIA MSVILLE, NEW YORK 14221

FEBRUARY 1992 DX 15 TrS 1615 WALK 97.5 NY Patchogue, rm\$, calls 330 16 MS 1226 KTUX 98.9 TX Carthage, ".. Great to have \$2337 WDET 101.9 MI Detroit, calls you along.... Tux 99.. Nirvana is..." 16 TrS 1401 WCLT 100.3 OH Newark, T100, k\$

1415 WWIZ 103.9 PA Mercer, k\$.1104 145 1432 WPOS 102.3 OH Holland, g\$, calls phased WIET and CKDK 274 1626 WXCY 103.7 MD Havre de Grace, k\$ 273 2328 WSWR 100.1 OH Shelby, of, CKFM phs 251

232 1138 24 Au 2012 WEZW 103.7 WI Wauatosa, EZ 104

279 ₹ APRIL 1 Tr 0000 CIFW 103.1 BC Terrace, nice strong

opening, just missed Alaska, % &! %! 2409

73, Greg

SOUTHERN · FM DX:

Danny Buntin 1312 N. Skyline Stillwater, OK 74075

DEADLINE: 14th

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

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

, Harahan	, LA 70123		
	1/6 Es		
1030	1759 KPRN	89.5 CO G. Junction	, Public Radio
, 1170	ID, ment.	G. Jnc.	1210
3	1807 KJOL	90.3 CO G. Junctin,	ID, gospel 1210
1000	1850 KRWN	92.9 NM Farmington,	"FM 93, Classic
1100	Rock", "t	he crown"	1140
	1030 , 1170 1000	1030 1759 KPRN 1170 ID, ment. 1807 KJOL 1000 1850 KRWN	1030 1759 KPRN 89.5 CO G. Junction 1170 ID, ment. G. Jnc. 1807 KJOL 90.3 CO G. Junctin, 1000 1850 KRWN 92.9 NM Farmington,

John Tudenham, 2824 Missouri, Joplin, MO 64804

Equipt.: GE Super Radio, Radio Shack DX 400. Just indoor antenna at present. Do most of my DXing on ham bands. Call is WOJRP. Two now stations heard here in Joplin, regular. 2/19

2130 KBVA 106.5 AR Bella Vista, big band adult standards

2203 legal ID KGMY 100.5, "My country 100.5" k, This is ex KELE Aurora, MO, believed licensed to Republic, MO, now 50kw ERP

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

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

2/13 tr

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

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

work in valleys!

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

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

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

been received more than 1 time; only lested when first received.

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

10/30 tr 0845 WRHT 96.3 NC Morehead City

11/5 Es

1600 KOGA 99.7 NE Ogallala

11/30 tr 1645 WHTK 99.7 SC Hilton Head 1647 WSYN 106.5 SC Georgetown 1649 WXLY 102.5 SC Charleston

SOUTHERN	FM DX		Stempio					APRIL 1992
7/13 tr		e74.070	et 2 /	1/8 t		405 3	-	
			Charleston			105.3		
			Kingsland					Albany
			Savannah					Gainsville-Atlanta
			Gainesville					Albany
			Midway-Brunswick					Savannah
			Waycross					Sylvania
			Jacksonville Market			104.9	FL	High Springs
			Brunswick	1/22				
2227 WBY								Kansas City,oldies 95
			Blufton	1715	KLSI	93.3	MO	Kansas City, Mix 93
			Hilton Head					Kansas City, 94 FM KFKF
		SC	Myrtle Beach	1720	KLTH	99.7	MO	Kansas City, Light 99.7 KLTH
11/14 tr		erraner i	02/14/4/00000					Sedalia, B92-KCBW
			Ashburn					Omaha, Light 96
0725 WKA								Seward, 96 Kicks
			Savannah					Nebraska City
1050 WOO		AL	Dothan					Columbia, 98.3 KFMZ
12/15 ms			204 WW 20					Omaha, Sweet 98
			Chattanooga, KZ106.5					Omaha, great oldies KGOR
			in car in Port St. Lucie)	1758	KGBI	100.7	NE	Omaha (xlator of KMZO, MO?)
			Austin(Lulling)	tr				
1817 KHF						106.5	NC	New Bern
1830 KBI	S 93.3	TX	Austin	1/23				
1/7 tr								Lake City, B94
			Melbourne(Over local WHLG			105.5	FL	Gainesville, Kiss 105
Jensen			CONTRACTOR OF THE PROPERTY OF	1/30		888 0		If an experience of dealer
			Sarasota			102.1	FL	Key West, Picket 102
		FL	Tampa, (o/WRMF West Palm	1/31		8 8897.725		and a second of the second
40 mi.)			2015 AV 74 VANA SERVICE SERVIC			96.3	"9	6 Country KNG?" (Any help?)
0215 WYN	F 94.9	FL	Tampa, (o/WZTA Ft. Laud.)	2/12				
0225 WMW	Z 93.7	FL	Ocala, (o/lcl WGYL Vero					Alexander City, South 106
Beach)								Vidalia, 98Q
		FL	Ft. Meyers, o/lcl WQOL					Dothan, Joy 101.3
Vero Be	ach							Montgomery, HOT 105.7
1115 WRE	Q 105.3	GA	Richmond Hill					Swainsboro, 104 FM
			Mt. Pleasant					Fort Rucker, US 100
			Wilmington					Albany
			Hanahan					Thomasville, Sunny 107
1333 WX7	C 96.9	SC	Charleston					Valdosta, Star 105.3
			Charleston					Havana, Mellow 105(YAWN)
1355 WGN	II 102.7	NC	Wilmington	1215	WOHJI	98.1	FL	Live Oak
			Southport					Enterprise, G. Brooks Radio
1430 WQE	R 94.7	NC	Raleigh-Durham					Bambridge, Power 97
1442 WEZ	L 103.5	SC	Charleston					Columbus, Rock 103
1457 WYZ	V 104.1	SC	Conway					Pensacola, WOW 107
1/8 tr								Moss Point-Mobile, Bay Ctry
0147 WBC	B 107.5	SC	Charleston					Mobile, oldies 96
				2345	WWSF	98.1	AL	Andulusia, 98 Surf FM

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

Danny did you get my report from the Dominican Republic? (No, I misplaced it. Sorry. Can you send another one? DB) Well, here is one from Bonaire. I didn't hear any FM from Caracas, the AM was astoundingly clear! YVKS 750 was splashing from 720 to 7701 PJB was sandwiched between two very loud blasters from Coro on 780 and 820.

DX at the Black Durgon Inn, Bonaire, Netherlands
Equipt.: Sanyo MW-750 with built-in antenna, Times: ATLANTIC (UTC-4h)

Normal reception:

Feb 10 1002 PJC? 93.9 N.A Willemstad, "Radio Kursou FM"

Feb 10 1304 PJB2 94.7 N.A Bonaire "Voz di Bonaire 94.7 FM stereo: tur dia for di seisor di mainta te cu diesdosor di anochie": Papiamento for "Voice of Bonaire, every day from 6:AM to midnight". English ad for Coke

Feb 09 0600 PJZ 95.5 N.A Willemstad "95.5 Z-FM" sign-on in Papiamento

Feb 11 1000 PJB3 97.1 N.A Bonaire "Ritmo FM", automated pop mx

Recurring jingle: "Mas cerca bo via bo radio, Ritmo FM"

Papiamiento for "Closer to you thru your radio, Rhythm FM"

Feb 09 0900 PJC7 101.9 N.A Willemstad "Aqui ta Radio Hoyer": papiamento //1010kHz

75

Feb 03 2100 PJC9 105.1 N.A Willemstad "Hoyer Clasico, interval signal

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

Another unID wgas heard around 98 mHz with Barquisimeto ads but not ID. N.A = Netherlands Antilles VEN = Venezuela

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

Christopher S. Dunne, 21541 Nw 8 Ct., Box 81, Fembroke Pines, FL 33029

Equipment: JVC kX302BA modified w/ 150kHz filters Archer 6-element FM antenna

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

11/22/91 Tr 2325 WSUV 106.3 Ft Ft. Myers Villas, 100 "Sunny 106.3", rm - NEW

11/23 Tr 0000 WRBH 88.3 LA New Orleans. phone 4SL by Trudy Stewart, nothing else in this far away 600

0900 WJIR 90.9 FL Key west, ID + "Where Jesus Is the Hock"

1130\$WPIK 102.5 FL Summerland Key, k Christmas mx, tests - NEW

Time Call Frec. St Location, details Hiles | Time Call Freq. St Location, details Hiles 1/25/92 GW 1615 88.3 FL PINATE, "Base

(Bass?) 91.9" (sic), o mx w/ "Brother Hike"

2333 WBPI 89.5 FL Naples, "Power 89.5", s, NEW. TAKE NOTE: This is //WSRX 91.5 "The Spark"

Also... "Es in the Keys" 1/19/92: Opening to Tex/Mex....35 unids 93.7/94.9, Tampico "Super Estelar" 94.5/tent. XHMU 90.1 "Estereo Vida", & KATG 94.7 TX "The 110 Cat", ment. Texas Hangers BB team.....

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

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

> Andy Sennitt WORLD RADIO TV HANDBOOK F.O. Box 9027 1006 AA Amsternam THE METHOD WATER

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

2: (Es)			
1711	CJBX	52.7	DN	London
1723	CKLW-	93.9	City	WITHGGCT
1723	MANU	53.5	DC	washington.
1751	WLTY	9:.7	VA	Norfo.k
1759	WANT	88.3	VA	Lyscheurs
16'5	WUNC	91.5	190	Chapel H. II
1873	WILL	88. 5	ty	Decicha

3: (1655	WRVL	SE.3	VA	Lynchburs
11:	wJIE	88.5	E.V	Deciona (ms)
				Sloux Center (ms)
	WIYN	29.7	TN	
BEIL	KNING	107.7	TX	Georgetown (tr)

SOUTHERN FM DX			Dyer, cont. AP
12:		`	1738 KLDZ 95.1 NE Lincol
ZEDD WOCA 88	.5 IL	Quincy (ms)	1741 KISD 98.7 MN Pipest
2000			1747 KEZO- 92.3 NE OMAHA
12:			1746 KKOK 95.7 MN Morris
#E 0 UE 8 92	5 KY	Dwensboro (ms)	1751 KELO- 92.5 SD Sloux
2659 KJDS 91	.5 NE	Omaha (ms)	1753 KIWR 89.7 IA Counci
\$PD3 1775 31		Circles (110)	1809 KTRX 93.5 MD Tarkio
0.019090			1819 KLGR- 97.7 MN Redwoo
14:	.5 NE	Omana (ms)	1822 KMIT 105.9 SD Mitche
8559 ×109 91	. 5 142	Unena Area	1838 KESD- 88.3 SD Ercoki
1 77 3			1852 WMNF 88.5 FL Tampa
17: (Es)	NEW WEW	420 OWIG 42000 VA	1656 WZZR 9Z.7 FL Stuart
	. 5 FL	Belle Glade	TODO WELK DELY TE STORY
		Boca Raton	7.
1925 WLYF 101			7: 1900 WMNF 85.5 FL Tampa
		Palm Beach	TORM MAINT DOLD OF SAME
1830 WPDW 96	.5 FL	Miami	1
832 WCM8- 92	.3 FL	Hialean	75 - W. HAN MA P. M. M. M.
834 WCVU 94	.5 FL	Naples	1712 XHSRO-92.5 NL Monter
:846 WRSI 93	. 5 FL	Napies	1725 TG 88.5 Gua
849 WLVE 93	.9 FL	Miami Beach	1705 YSEV- 89.7 EIS San Sa
900 WMCU 88	.7 FL	Miami	1747 TGHR- 98.6 Gua Guatem
			1749 YSEC- 94.5 EIS San Sa
54: (Es)			1805 YSCZ- 38.5 E/S San Sa
11: (Es) 906 KKFR 92	.3 AZ	Glendale	1809 XHMX 37.9 CHI Tapaca
200 1070 0 54		a, duarie	1816 76 98.1 Goa
4: (Es)			1921 TG 103.7 Gua
701 TG 88	.5 Gua		
1/01 (6 80	Gua		1. E. a
(4-1)			1537 TG 88.5 Gua
17: (tr)	SUE 1200	522 V	1702 TGFP- 38.1 Gua Guatem
1846 XHSRD-92	.5 NL	Monterrey	1747 TGN- 100.8 Gua Guaten
all Es un	Tese no	ted	
			1750 TGHR- 99.6 Gua Guater
2: 1757 WOZN 98	7 84	rus went	1809 <u>TG</u> 96.3 Gua
1000 WEDW 92	. W. Fil	Key West	1911 YSEV- 89.7 EIS San Sa
TEG ANN TORL	E FI	Yer west	1818 YSEX-105.7 E/S San Sa
1835 WCMQ- 92			1818 <u>YSEX</u> -105.7 EIS San sa 1820 <u>YSKL</u> -104.1 EIS San Sa
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7.			YSEC- 94.5 E18 San Sa
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1526 TB 88	• 2 5 7	San Salvador	The second secon
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		Guatemaia City	
1602 TGRT- 88	. 4 504	Guatema:a City	1650 WYUU 92.5 FL Safet:
			1657 WZZR 92.7 FL Stuar
4:		25	1701 WOND 89.9 FL Stuar
GIDS MALK BE		Charteston	1703 WKPX 88.5 FL Sunri
WU211- 85		Corombus	- TAC LIEDE GT T FI TALLA
SE LUTA PORCE	L MN		1710 WMCU 89.7 FL Miami
1626 70 98	5.5 Gue	1	17:2 WPOW 96.5 FL Miami
			1715 WZTA 94.9 FL Miaini
5: 1749 KACO 9:			1718 WEMG- 92.3 FL Hiale
ITAS RACG S	. 7 AZ	Tuesco	1710 WEND 32.3 FL RIBIO
1752 KKLD 90	1.9 AZ	Tucson	1722 WAYJ 88.7 FL Fort
KTZN S.			1732 WLVE 93.9 FL Miami
THE PERMIT	TO TY	Johnson 2 to (t	to) 1742 WXDJ 95.7 FL Homes
11.00			1
			Meny thanks to YS1AG in E
<u>6:</u> 1571 will d		i in established	for helping with the ID's.
LOTE LINES OF		5a:1e 51ade	I could find someone in Gu
		2011e 01=00	
TOAR WAXM 9			March 192 QST has an artic
	3.7 NG	Greensboro	FM Es data collecting from
	2.3 NG	Asheboro	I.
	1.7 SU	Columbia	77 O L
WRJA- S	9.1 SC	Sunter	73, Pat
1700 WK-4-10	5 UA	Marienta	* *******
	7.9 F.	Paim Deach	"A5IYX
1710 WHOU E	9 7 FL	P. Fam.	
	J. T. F.	Cort Lauch cal	÷
1715 WL/F 10	1.5 FL	ii am	
2 - QMG - 9		H.a.eah	
ADMINISTRAÇÃO SE	-6-5		

CONTRIEDM EM DY

738	KLDZ	95.1	NEL .	Lincor
741	KISD	92.7	MM	Pipestone
	KEZO-		NE	Omana
745	KKOK	95.7	MIN	Morris
	KELO-	92.5		Sloux Falls
	RIWR	89.7	IA	Council Bloses
	KTRX	93.5		Tarkio
	KLGR-	97.7		Redwood Falis
	KMIT 1			Mitchell
	KESD-			Prookings
852		88.5	FL	Tampa
1656	WZZR	92.7	FL	Stuart
1000	MTTI	22.1	1) lee	Stuart
7.1				
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	VALUE OF THE PARTY	100 100 100 100	1-1	1,5401105.50
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1712	XHSRO-	-92.5	NL	Monterrey (tr)
1725	*'(J	88.5	Gua	
775	YSEV-	39. 7		San Salvador
1747	TGHR-	98. E		Guatemala City
7/49	YSEC-	94.5		San Salvador
-004	YSCZ-	00 5		San Salvador
- 020	XHMX	27 0		Tapachula
	TB		Gua	
1921	7'G	100.7	Gua	
16:				
7 10 th th	TG	£5.63 F5	Gua	
100/	1 Clarent	20.3		Guatemaia City
1702	TGFP-	88-1		
1747	TON-	1.00.3		Guatemala City
1750	TOHR-	93.6		Guatemaia City
1809	TG	96.3	Gua	
	YSEV-			San Balvador
1818	YSEX-	105.7		San salvader
1820	YSKL-	124.1	E15	San Salvador
1823	YSCZ-	38.5	515	Sar. Salvador
1825	YSUU-	107.3		Sav. salvador
	VOEL -	94.5		San Salvador
1841	TGX-	95.7	Gua	Guatemala City
	-			
184				
1548	WMTX-	95.7	FL	Clearwater
1650	WYLJU	92.5	FL	Safety Harbor
1657	~ZZR	92.7	FL	Stuart
1701		89.9	FL	Stuart
1703		28.5	FL	Sunrise
1706		93.5	FL.	Belle Glade
		39.7	FL	Miami
	WHOU	96.5	FL	Miami
1715		94.9	FL	Miami Beach
	MCMO-	92.3	FL	Hialean
		88.7	FL	Fort Myers
	WLVE	93.9	FL.	Miami Beach
1742	WXDJ	95.7	FL	Humestead
			Tass	a in El Columban
Men	y than'	cs to	YSTA	3 in El Salvador

Dver. cont.

for helping with the ID's. I wish that I could find someone in Guatemala now!

March 192 QST has an article based on my Fi Es data collecting from 1980-90.

Dec 1391

EASTERN TV-D

Bill Nienajadly PO Box 2999 Clifton NJ 07015-2999

Cutoff 3 months Deadline The 5th

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

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

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

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

January 1992 Tropo

	030 WNEP 16 PA 29 2230 V	MP 21 PA MAIL 22 DA _{mont} 00 5 WD7	2359 WENY 36 NY
Jerry Beaudin Route 3 Box		December 1991 Tropo	***************************************
27 2023 CITY 57 ON 358 2035 CFMT 47 ON 358 2037 CBLFT25 ON 358 2059 WNEO 45 OH 439 2228 WSYT 68 NY 523 2234 WSYT 68 NY 523 2234 WSYT 67 ON Y 2258 WGW 24 NY 528 2259 WGW 23 PA 602	28 0032 WFMJ 21 0H 436 0033 WYTV 33 0H 437 0045 WJ4B 43 0H 339 0126 WFTT 22 PA 500 0129 W0T0 19 0H 391 0139 WFMT 43 PA 627 0144 WJET 24 PA 402 0159 WKBN 27 0H 437 0201 WENY 36 NY 523	28 0222 WPCH 53 PA 488 0234 WICZ 40 NY 564 0246 WTTE 28 0H 441 0301 WMPC 23 PA 534-TP 0308 CFMT 47 0N 358-TP 0823 WBNX 55 0H 398 0958 CFTO 9 0N 358 1359 WONY 62 (W62AN)-nt 29 1900 WAND 17 IL 459	29 1913 WMBD 31 IL 429 1914 WEEK 25 IL 429 1924 WICD 15 IL 438 2221 WOC 67 04 429 2227 W7ZZ 43 IL 421 2229 WHOI 19 IL 429 2234 KLJB 18 IA 408 2 2323 WKOM 19 WI 320 2320 KYIN 24 IA 399

Note # 1 Off back of antenna which was pointed at NY stations. Note # 2 ID-ed as WCNY-only ID given-(Jerry, it does point to Newdrow NY with 11.5 kw-congradulations!-BN) JANUARY 1992 Tropo

4 2200 KRIN 32 IA 404	4 2400 KTIN 21 IA 487-nt 1	5 0907 WKEF 22 0H 494	5 1314 WQRF 39 IL 319
2334 WXOW 19 WI 320	5 0053 KMEG 14 IA 579	1159 WXIN 29 IN 437	28 2211 KDSM 17 IA 494
2336 WQOW 18 WI 299	0059 WLAX 25 WI 321	1203 WFFT 55 IN 353	2216 WLAX 25 WI 321
2358 KSIN 27 IA 579	0102 Note # 2	1208 WEHT 25 IN 583	2221 WXOW 19 WI 320
2359 KŸĪÑ 24 IA 399	0859 WOPT 61 Note 3	1229 WLFI 18 IN 404	2223 KYIN 24 TA 399

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

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

Note # 3 PBS another translator that I don't know what it is- ch 61 carrying ID and programming of WQPT Moline IL I don't have any listing for this one. (Niether do I-BN)) 1....

Stephen West 26 Dougherty Blvd. G-8 Glens Mills PA 19342 N3FYO 215-358-2648

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

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

Fred McCormack Box 17860 St. Paul MN 55117-7860

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

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

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

GR Guerrero

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

CST

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

Der	cemb	per 19	91				Jar	nual	y 199	2				7	Es	0958	KUSD	2	SD	945
							2	Es	1759	WPBT	2	FL	1150				WBAY	2	WI	1185
2	Es	1455	WDTN	2	OH	1075	4	Es	0129	WWAY	3	NC	1235			1220	WCIA	3	IL	930
-	m.c.	1629	CKC02	2	ON	1430				WFMY	2	NC	1175			1833	XHAP	2	GR	875
		1658	WSAZ	3	WV	1125			0206	WAVE	3	(IN	955	12	F2	0832-	1011	unids	s ch	1 2
		1705	WJBK	2	MI	1240			1030	KXMA	2	ND	1215	16	Es	1856	WESH	2	FL	1040
		1827	KTVI		MO	780	5	Es	1346	WJXT	4	FL	1020	Fe	bru	ary 19	92			
		1828	WAVE	3	(IN)	955			1400	WESH	2	FL	1040	2	Es	0627	TMWW	3	MI	1160
3	Es	1812	WJBK		MI	1240			1459	WSAV	3	GA	1040				WCIA	3	IL	930
		1815	KTVI	2	MO	780			1743	KTVK	3	AZ	835			0642	WBBM	2	IL	1055
		1817	WBBM	2	IL	1055	6	Es	1528	WFMY	2	NC	1175			0657	WBAY	2	WI	1185
		1820	WCIA	3	IL	930			1529	WWAY	3	NC	1235			0747	KGAN	2	IA	960
		1857	WTWO		IN	925			1558	WBTV	3	NC	1090			0759	KTVO	3	MO	840
		1900	KIMT	3	IA	1010			1648	WPTV	5	FL	1135			0805	WBTV	2	NC	1090
8	Es	1700	WSJK	1.5	TN	1010	7	Es	0958	KMTV	3	NE	830	3	F2	0710-	-0752	unid	s c	1 2

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

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

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

Pat, WA5IYX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment: See February 1992 Western TV-DX

Febru	ary 19	92				2								KHNE			
2 tr	0255	WAAY	31	AL	503		0400	WLOV	27	MS	558	6		KTVP			
	0300	WTTO	21	AL	582		0435	WYMT	57	KY	449		0350	WOIO	19	OH	401
	0315	WNAL	44	AL	551		0500	WZTV	17	TN	408						
	0342	WPTY	24	TN	451		0530	WAFF	48	AL	503						

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

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

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

Western TV-DX

William Eckberg (continued)

Basseterre, St. Kitts, British West Indies has just replied and stated that it was not them. They included some

interesting information on their operation. They use color bars.

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

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

John Ebeling, 9209 Vinent Ave S, Bloomigton MN 55431

AST

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

Anyway, with a TV set in the room, I could do a little DXing at 13° N latitude, which is a far cry from Minnesota. Only had set's "rabbit ears" with which to DX, but when I

had time to DX, results are as noted (Atlantic Standard Time):

2-10 2230-2330 chs 2-5 - aurora like E skip, active but no picture seen, but video very active. Spanish audio (at least two audios fighting it out on some channels). "Caracas" heard.

2-11 2230-2330 chs 2-5 - like above (no Caracas).

2-12 2230-2335 chs 2-5 - again like above.

2-13 2245-2350 chs 2-6 - again like above.

2-14 2230-2315 chs 2-5 - again like above.

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

I don't know if any aurora was present, as I could not see the northern sky; I was

on the south coast of Barbados.

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

They do have subscription (scrambled) TV in Barbados: chs 14 & 16 are Lifetime, 18

& 20 are ESPN Sports, 22 & 24 are CNN, and 26 & 28 are Turner Network TV.

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

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

CST

Equipment: See February 1992 Western TV-DX

February 19	92				2	tr	0658	WKYT	27	KY	473	19	tr	1903	WKPC		(IN)	437
1 tr 1902	KOCR	28	IA	280				WLEX	18	KY	473				WTVQ	36	KY	473
1956	KNLC	24	MO	432			0711	WPBO	42	OH	462				KRIN	32	IA	280
		32	MO	432				&WEVV	44	(IN)	420	21	tr	1821	WKPC	151	(IN)	437
		100	MO)				0713	WBMG	42	AL	768				WLKY	32((IN)	437
		-333°°	IL	365			0720	WUSI	16	IL	390				WDRB	41	(IN)	437
	KMIZt						0736	WDKY	56	KY	480				WTVQ	36	KY	473
2032			IA				0908	WGRB	34	KY	515	22	tr	0729	WKPC	15	(IN)	437
2.7.7.2	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IA					WCTEt	22	TN					WLKY	32	(IN)	437
2354			IN)	437				WYMTt	57	KY					WDRB	41	(IN)	437
7.7.7	1	21.00	KY	480			0927	KAWB	22	MN	365	23	tr	1940	same a	as (02/2	2
2 tr 0327		7.7	IA	250			2035	WKHA	35	KY	553	25	tr	2149	KHINt	36	IA	
	nport	-	-	TBN)	16	tr	2004	WGBA	26	WI	25			2153	KSMQt	15	MN	
(501)	Rockfr	d :	33.4					(Now	Fox)		26	tr	0535	KSHB	41	MO	525
0658			AL	685			2109	WLKY			437				@KOIA	15	IA	345
0000			(IN)	100					Z-3	2 da	rk)			0541	e KCPT	19	MO	525
	PARTIES AND THE REST	48	OH	400				WDRB	41	(IN)	437				@KSPR	33	MO	589
		36	05 F.C.	473	19	tr	1903	2000			437				KDEB	27	MO	589
	1.000		ee)					WLKY		(IN)					KOZK	21	MO	589

Wi	1112	am Dra	eb (cor	tir	nued)			1992	KSAX	42 MN	380	3	tr	1200	WDIO (See		MN te#	286
		DEFA	@KYFC	50	MO	ESE	2	FF	2109	KVRR	15 (MN	1 1007110			1721			(MN)	
26	tr	0551	WTCIt			525			2250	KAWB	22 MM	Section 1				(Bett			
		0003	WDSIt				3	tr	0630	KVRR	15 (MN					KSAX	42	MN	380
			WNEO		OH	405	125			KSAX	42 MN	380				KAWB		MN	365
			CBLN4	45	ON	307				KBMY	17 NE	665			2000	CBLN		ON	325
		0611	WWAT	53	OH	437				(See	Note	#1)	4	tr	0410	W61	61		
		0.000	WPBO	42	OH	462			0635	KTCI	17 MM	280			(Unkr				TAB)
		0616	WDRB		(IN)	437			0653	KDSD	16 St	500				(Gran	d R	apid	s??)

Note # 1 - Positive ID at 0730 with KBMY-17-KCMY-14 ID slide. Note # 2 - Early AM DX still in, but KBMY-17 mostly gone.

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

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

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

UPDATE ON THE N.J. SCANNER LAW

BY BILL NIENAJADLY

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

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

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

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



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A 1 . STATION

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



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

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

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

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

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

FIRST with full color coverage, network and local,

FIRST to "feed" live network programming to a national audience, and FIRST with minicam coverage of news

in the field.

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

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

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

Lee Garrett Director, Community Services WSLS-TV

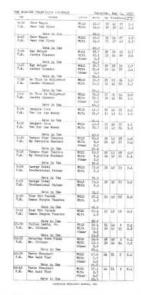














When we increased our power in 1954, an appliance dealer in Burlington, North Carolina sent us a photo he had taken of his television set.



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







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



(neraman Glen "Whitey" Robinson and George Chernault c-ronicle the final run of the Pocahontas. (June 1971)















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

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

BY JOOP J. PROSÉE

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

In his article it looks like Doug is thinking that the "No Hop" theory is my personal invention, because he states in his article "Joop J. Prosee's No Hop theses", once again I declare that everything in my article then, was based on what can be found in all kinds of literature about propagation. Among others, some of the propagational findings out of the first chapter of the 14th edition of the ARRL Antennabook were partly incorporated in my article.

Doug is disagreeing with the "No Hop" theory, well it is his right to do so and I'm

not writing this article to convince the disbelievers of the "No Hop" theory, but we have to take into consideration that the so called "Hopping Theory" is also not more

than a "theory".

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

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

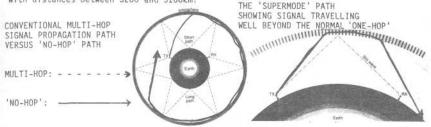
For me, one of the most convincing facts that I found in propagational literature, putting the multi hop theory aside, was the report on experiments with so called, "round the earth signals". These are mostly Shortwave signals that travel around the earth, these signals can be received after they travelled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

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

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

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

Even the Es-season of 1991, commonly regarded as one of the lesser ones of recent years both in the USA and Europe, did bring in 12 separate days with Jordan TV on che 3 plus nine days with other lowband TV transmitters from the Near- and Middle-East with distances between 3200 and $5160 \mathrm{km}!$



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

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

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



Fred Nordquist 7945 Boxford Rd Clay, NY 13041 Deadline: the 5th

ALL-TIME FM DISTANCE RECORDS FM STATISTICS AS OF 2/20/92

FM STATISTICS				1		AS UF Z/Z	0,02
MHZ PR CALL STATE/LOCATION DIST D)	ER-LOC 1	MHZ PR CALL	STATE/LOCATION D		MHZ PR CALL	211112122201111	ST DXER-LOC
88.10 ES WCRP PR GUAYAMA 2280		0.70 TR KVN0	NE OMAHA		93.50 AU WLIM	WI NEW LONDON	339 ABO-IL 2263 ACO-OA
SOUTH STATE OF THE		10.70 MS WXEL	FL W PALM BEACH		93.70 ES WJIT	PR SAN JUAN CA SANTA BARBARA	
OUL TO THE HUMIN THE CASE OF T		60.70 AU KWMU	MO ST LOUIS		93.70 TR KDB		1501 RCO-DK
90121 110 00111 02 1 0 01111	the state of the s	90.90 ES KCMW	MD WARRENSBURG	1534 JJE-CA	93.70 MS WCCM 93.70 AU KWYR	MA LAWRENCE SD WINNER	682 ABO-IL
	A. C. S.	0.90 TR KUNI	IA CEDAR FALLS	828 FNO-NY	93.70 HO NWIN	CA LOS ANBELES	2141 MBR-FL
		90.90 AS CBX	AT EDMONTON IA CEDAR FALLS	1170 JJE2CA 589 FMC-+D	93.90 TR WBUS	FL MIAMI BEACH	1152 GHA-TX
20010 110 0101		90.90 AU KUNI	and the second s	170701010000000000000000000000000000000	93.90 MS WWWL	FL KIAMI BEACH	1306 SCH-0N
and the second s		91.10 ES JBC-2 91.10 TR XETRA		2518 SR61+1	93.90 AU WWWL	FL WIAMI BEACH	838 'ABO-IL
000 10 00 1011		91.10 MS KSJM	TH ST PAUL	1123 GHA-TX	94.00 ES XET	ML MONTERREY	1382 JEB-RN
		91.10 AU KSJA	MN ST PAUL	739 DNI-NY	94.10 ES WOYE	PR MAYAGUEZ	2263 RBRITA
		31.30 ES WIPR	PR SAN JUAN	1806 CHO-DH	94.10 TR KFSD	CA SAN DIEGO	2513 SRE1HÎ
		31.30 TR WTHS	FL MIAMI	1148 GHR-TX	94.10 MS KBT0	TX BEAUMONT	1192 PSA-ON
88.60 ES HILF DR SANTO DOMINGO 1050		91.30 MS CKUA	AT DRUMHELLER	1055 JJESCA	94.10 AU KCKM	KS KANSAS CITY	881 D≈I-×Y
8A. 70 ES KEGS TX CORPUS CHRISTI2029		91.30 AU WENY	NY SYRACUSE	530 RBR-MI	94.30 ES KVFM	CA SAN FERNANDO	1510 050-19
		91.50 ES RJR	JAMORACABESSA	1950 JPI-MM	94.30 TR WGMW	FL RIVIERA BEACH	
		91.50 TR WFSU	FL TALLAHASSEE	861 PDY-TX	94.30 MS WÜUU	TH DAK RIDGE	1221 FMC-ND
		91.50 MS WHMD	WI SURIMG	1219 GHA-TX	94.30 AU CFRW	AB MINNIDER	743 KBR-MI
88.80 ES TORT OU GUATEMALA 1148	PDY-TX 9	91.50 AU WRPI	NY TROY	512 FME-MI	94.50 ES KELT	TX HARLINGEN	SILL NCH-BC
		91.70 ES KRSW	MH WORTHINGTON	1457 JPI-MM	94.50 TR KELT	TX HARLINGEN	934 CH01FL 1113 POY-TX
		91.70 TR XHXL	NL MONTERREY	1101 CH01FL	94.50 KS KTSP	MN ST PRUL	575 RBR-MI
		91.70 MS KOSU	OK STILLWATER	870 FMC-ND	94.50 AU WRVG	ND GRAND FORKS	1582 MDA-FL
		91.70 AU KRSW	MN WORTHINGTON	861 DNI-MY	94.70 ES KTYN 94.70 TR KAPT	TX LULING	919 CH01FL
		91.90 ES WSIU	IL CARBONDALE	1748 JPI1CA	94.70 NS KSET	TX EL PASO	1073 ABO-IL
03466 HG 1845 CH 644 GHATTER		91.90 TR KBNJ	TX CORPUS CHRIST WI WAUSAU	1012 RWO-LA	94.70 AU WPTF	NC RALEIGH	512 FRE-FI
		91.90 MS WHRM	IL CARBONDALE	741 FREEND	94.80 ES TGDX	GU GLATENALA	1136 G-A-TX
63570 III News Surgonier-Contract		91.90 AU WSIU 92.00 ES XEBJ	TAMED VICTORIA	873 GHA20K	94.90 ES WINZ	FL MIAMI BEACH	1948 FAC-ND
03174 to Made: For the property		92.10 ES CJAJ	AT CALGARY	1765 DAI-#Y	94.90 TR WINZ	FL MIAMI BEACH	1158 GMA-7X
22728 De Hiller 100 HAVIET		92.10 CS C3HJ	FB WINNIPES	842 FME-MI	94.90 MS WPCH	GA DECATUR	1342 FRC-ND
		92.10 MS WJBA	GA JACKSON	929 SGR-1A	94.90 AU KF%6	IA DES MBINES	600 FAC-ND
		92.10 AU WYXE	WI SUN PRAIRIE	260 ABO-IL	95.00 ES ZFB	BM HAMILTON	1374 RBR-#I
		92.15 ES CARC	CU HABANA	1299 GHAZOK*	95.10 ES KRDO	CO COLORADO SPOS	1555 MDI-40
		92.30 ES WDB0		1743 FMC-#0	95.10 TR WJAX	FL JACKSONVILLE	1013 SHR-TX
		92.30 TR KEAS		2474 SREINI	95.10 MS WLST	WI MARINETTE	1146 RSA-TX
		92.30 MS WVAE	MI DETROIT	1176 DAL-CO	95.10 AU KICT	KS WICHITA	651 RBR-MI
	5 CDU-FL	92.30 AU KLIG	OR PORTLAND	1017 FMC-ND	95.30 ES XHOX	TAMTAMPICO	1492 KSIINC
89.50 MS KENN NM PORTALES 1076		92.50 ES KPRX		1541 GCD-NY	95.30 TR WTLN		1029 G-A-TX
89.50 AU WPKM CT BRIDGEPORT 79		92.50 TR WFYN		1089 PDY-TX	95.30 AS NONE		Ta ()
89.60 ES TGDX GU GUATEMALA 113	6 ЭНЙ-ТХ	92.50 MS KAF1		1466 JJE-CA	95,30 AU CKDS		378 SRE-CT 491 GnA-TX
	6 JJE2CA	92.50 AU WITHE		749 FMC2ND	95.40 TR XHDX	TANTAMPICO FL FT PIERCE	1619 FFE2XD
02114 III 81100 I L 112111		92.70 ES KJAZ		2388 MDA-FL	95.50 ES WOVE 95.50 TR KLOS		2474 SREINI
92479 10 1000 111 24 11 1000		92.70 TR KJ87		1032 CH01FL 431 PSA-DM	95.50 MS KDCK		1195 JJEECA
07219 110 8001 111 2001011	4 ABU-IL	92.70 MS MDUI		425 FMC-40	95.50 AU WHPS		604 SCH-GN
		92.70 AU KBR		1644 JJE-CA	95.70 ES #11		1855 BNI-N)
	5 LVO-VA	92,90 ES WSL		891 401-40	95.70 TR KXXX	[2] - 기계 시시 시간에서 인적하다 () () ()	1043 FNG→Y
	6 FAC-AD	92.90 MS KIT		1251 EH0-0H	95.70 KS KKA		1177 DNI-NY
89.90 AU WHSA WI BRULE 49 90.00 ES YSU EL SAN SALVADORE 123		92.90 AU WVN		841 ABO-IL	95.70 AU WPT		467 FNU-NY
90.10 ES KCBX CA SAN LUIS OBISP227		93.10 ES KAN	The second secon	1818 MDI-MD	95.90 ES KDH	MN FARIBAULT	1561 JJESCA
		93.10 TR KGG		2474 SRE1HI	95.90 TR KRS	48 RUSSELL	664 GnR-TX
		93.10 NS KBH		1183 RW8-LA	95.90 MS KEY		1016 WHE30N
	6 SCH-OM	93.10 AU XHA		918 JEB-AN	95.90 AU KHD		477 FNC-ND
	6 ADA-FL	93.20 ES XHG		1385 RBR-A1	96.10 ES KEZ		1633 MSI-TM
90.30 TR KKED TX CORPUS CHRISTI 90	3 CHOIFL	93,20 TR XHB		274 GHA-TX	96.10 TR WKT		
	il bon-TX	93.30 ES KDW		ISIT JJE4CA		ID IDAHO FALLS	1224 PDY-TX
90.30 AU WHOL IM FT WAYNE //	DASJAH AC	93.30 TR WFL		984 PDY-TX	CHARLES AND ADDRESS OF THE PARTY OF THE PART		588 RBR-RI 2141 #BR-FL
	57 JJESCA	93.30 MS KYK			ALL DESCRIPTION OF THE PARTY OF		2141 ABR-FL
90.50 TR WKAR MI E LAMSING 93	31 RWO-LA	93.30 AU WES		689 JEB-NA			1136 ABB-11
	55 FNU-NY	93.50 ES Xm		1492 MSI1MC			541 JEB-10
	26 796204	93.50 TR KRP		623 FAE20H		D PR FAJARDO	1998 PHU-12
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96.50 TR KIDU	TX COMPUS CARLS		99,90 KS KT0*	AT CLOVIS	1069 JUEZCA		STATE/LOCATION D	151 DAEK-LUL 1523 JJEECA
96.50 FS KATA	10 ARMSRS CITY	1254 465-58	99,90 AU KEAB	NE OMAHA	554 FAC-AD		FL FT LAUDERDALE	
96.50 AU WTIC	DT HARTFORD		100.10 ES XHJT	TAMTAMPICO	1492 MSIINC		CA LOS AMGELES	2474 SREIHI
96.70 ES DAGE	UN KITCHERER		100.10 TR WEEJ	FL PORT CHARLOTT		103.50 AU KEYI	TX SAM MARCOS	1006 RST-IN
96.70 TR KOFX	TX GEORGETOWN		100.10 MS CBAX	AT LETHBRIDGE	930 IJESCA	103.70 ES WEZS	VA RICHADAD	1494 JPI-MM
96,70 KS MONE 96,70 RU WJOL	IL JOLIET		100.10 AU WIVE	VR ASHLAND	564 RBR-MJ	103.70 TR KJUY	CA SAM DIEGO	2513 SREIHI
96.90 ES CBUF			100.30 ES KIGG 100.30 TR KBER	CA LOS ANGELES TX SAN ANTONIO	2141 ADA-F.	103.70 AS KVIL	TX DALLAS	1274 SCH-0N
96.90 TR WINK	FL FT MYERS		100.30 MS KBGX	TX DALLAS	958 MDA-FL 1098 FMC-MD	103.70 AU KIIK 103.90 ES KUOO	IA DAVEMPORT IA SPIRIT LAKE	1448 JJE4CA
96.90 FS WCDZ	KY LEXINGTON		100.30 AU WZEN	IL ALTON		103.90 TR WBBY	DH WESTERVILLE	817 DBU-DK
96.90 AU WFP6	NJ ATLANTIC CIT		100.50 ES WC#S	VA NORFOLK	1560 JPI-NM		AT EDMONTON	1148 JJE4CA
97.10 ES WFUX	GA GAIMESVILLE		100.50 TR WEAT	IL JACKSUNVILLE	81: FMC-ND	103.90 AU KKIX	AR LITTLE ROCK	952 GC0-WY
97.10 TR KLSX	CA LOS ANGELES AR CARGEN		100.50 MS WKEE	WV HUNTINGTON	856 GHA20K	104.10 ES KRBE	TX HOUSTON	1506 JPIICA
97.10 MS KWCH 97.10 AU MCON	WI SPARTA		100.50 AU WWKI	IN KGKGKG		104.10 TR KBGX	CA LOMPOC	5363 SKEIHI
97.30 ES KLCE	ID BLACKFOOT		100.70 ES MDAE 100.70 TR KHAY	EL TAMPA CA VENTURA		104.10 MS KJJU 104.10 AU WIKY	MN ST LOUIS PARK	
97.30 TR KEEZ	TX SAN ANTONIO		100.70 MS WMJR	FL FT LAUDERDALE		104.30 ES WKTC	IN EVANSVILLE NC TARBORO	559 JEB-MK 1485 JPI-NR
97.30 MS KBUF	KS GARDEN CITY		100.70 AU KGBI	NE ORAHA		104.30 TR KBIG	CA LDS ANGELES	2474 SRE1HI
97.30 AU KBNI	IA DES MOINES		100.90 ES KSRT	CA THACY	The second secon	104.30 MS WGMC	MI DETROIT	983 FMC-ND
97.50 ES KINT	TX EL PASO	1670 RSE-NY	100.90 TR KEPG	TX VICTORIA		104.30 AU WOMC	MI DETROIT	745 FACSHD
97,50 TR WPCV	r_ WINTERHAVEN		100.90 AS MONE		0nT	104.SO ES WEAT	FL W PALM BEACH	1895 FMC-HD
97.50 AS KINT 97.50 AU WWAS	TX EL PASO MS DXFORD		100.90 AU KOAD	AN LUVERNE		104.50 TR XELTH	BCMTIJUANA	2518 SREIHI
97.70 ES CBUF	BC VANCOUVER	1526 JPI-NA	101.10 ES CFMI 101.10 TR KRTH	BC WESTWINSTER CA LOS ANGELES	1827 RBR-MI	104.50 KS KEXL	TX SAN ANTONIO	1103 RBR-MI
97.70 TR KDUV	TX KINGSVILLE		101.10 AS KCKK	UT KAMAB	2474 SREIHI	104.50 AU WHST 104.70 ES WRBG	DH WOOSTER FL TAMPA	639 JEB-MH
97.70 AS WUD	GA VIDALIA		101.10 AU WMZU	MO CARROLLTON		104.70 TR WRBQ	FL TAMPA	2290 JPI1CA 979 PDY-TX
97.70 AU CHOM	PO MONTREAL		101.30 ES WVHR	VA HAMPTON		104.70 MS KIBV	SD SIOUX FALLS	898 SCH-ON
97.90 ES XETIA	JALGUADALAJARA	2066 RSE-HY	101.30 TR KMCN	TX SINTON		104.70 AU KIBV	SD SIDUX FALLS	524 ABO-IL
97.90 TR WJNU	FL PALM BEACH		101.30 MS KDWB	MN RICHFIELD	716 SCH-0N	104.90 ES KYUF	TX UVALDE	1404 JJE4CA
97.90 MS WRMF	FL PALM BEACH		101.30 AU WEZO	MY ROCHESTER		104.90 TR KIBL	TX BEEVILLE	923 CH01FL
97.90 AU WSIX 98.10 ES WTOF	TX NASHVILLE On CANTON		101.50 ES WKES	FL ST PETERSBURG		104.90 MS KTCH	HE WAYNE	943 BNI-NY
98.10 TR KRRD	TX LAKEDO	1197 CDU-FL	101.50 TR KGB	CA SAN DIEGO		104.90 AU WFXD	MS 1UKA	760 BCB-NY
58,10 MS w0FA	OH ALLIANCE		101.50 MS WIBA 101.50 AU WBIE	WI MADISON GA MARIETTR		105.10 ES KERM 105.10 TR KKGO	TX ABILENE	1499 WHE40N
98.10 AU KUDL	MD KANSAS CITY		101.70 ES KTLQ	OK TAHLEGUAN		105.10 MS WYOR		2474 SREIHI 1147 RSA-TX
98.30 ES CFLY	DN KINGSTON		101.70 TR KSOX	TX RAYMONDSVILLE		105.10 AU WS8m	DH SALEM	685 JEB-MN
98.30 TR KXT0	TX ODEM		101.70 MS NONE			105.30 ES KSMG	TX SEGUIM	1486 JJE4CA
98.30 MS WLEN	FL GOULDS		101.70 AU WILS	FI LAMSING	291 FMC-MD	105.30 TR KCBQ	CA SAN DIESO	2513 SRE1HI
98.30 AU CKLC	ON KINGSTON		101.90 ES WCIB	MA FALMOUTH		105.30 MS WLTS	LA SLIDELL	1166 FMD-WY
98.50 ES KPAC 98.50 TR KLAZ	TX PORT ARTHUR	1650 RWORAT	101.90 TR KEDS	CA GLENDALE		105.30 AU WDAS	PA PHILADELPHIA	611 RBR-MI
98.50 KS WIFE	AR LITTLE ROCK TH KINGSPORT		101.90 MS KOXT 101.90 AU WRIG	TX SAM ANTONIO		105.50 ES WRAR	VA TAPPAHANNOCK	1430 FMC-HD
98.50 AU MSB	BA ATLANTA		102.10 ES KLYX	WI WAUSAU TX HOUSTON		105.50 TR KITM 105.50 MS WSMT	TX MISSION TN SPARTA	1155 CDU-FL 739 JEB-MN
98.60 ES TGHR	GU GUATERALA	1503 JPI-MA	102.10 TR KLYX	TX HOUSTON		105.50 AU WXEZ	DH SYLVANIA	280 ABB-IL
98,70 ES KBBE	AZ PHOENIX	1780 MDR-FL	102.10 KS KWES	TX MÜNAHANS		105.70 ES CBU	BC VANCOUVER	1526 JPI-NM
98.70 TR KNUS	TX DALLAS	898 MDA-FL	102.10 AU KFWD	TX FT WORTH		105.70 TR KSTV	TX STEPHENVILLE	981 CH01FL
98.70 MS KAML	TX AMARILLO		102.30 ES WPTM	NC ROANOKE RAPIDS	\$1479 JPI-NA	105.70 RS KHEB	TX HOUSTON	1065 JEB-MH
98.70 AU WBFG	MI DETROIT		102.30 TR KBIC	TX ALICE		105.70 AU KHCB	TX HOUSTON	1065 JEB-MN
98.90 ES WHFM 98.90 TR WBGM	NY ROCHESTER		102.30 MS NONE			105.90 ES XHGU	CHIJUAREZ	1826 FME20H
98.90 MS CIZL	FL TALLAHASSEE SA KEGINA	861 PDY-TX	102.30 AU WWSR 102.50 ES WTSP	VT ST ALBANS FL ST PETERSBURG		105.90 TR WAXY	FL FT LAUDERDALE	
98.90 Au #SPA	SC SPARTANBURG	552 RBR-K1	102.50 ES WISP	CA SANTA MARIA		105.90 AS KUZZ 105.90 AU KBP1	NV RENO CO DENVER	1407 JEB-MH 696 JEB-MH
95-10 ES KBBL	CA RIVERSIDE	2089 MDA-F	102.50 MS KBIC	AN MILLARK		106.10 ES WKGO	MN CUMBERLAND	1445 JPI-HM
99-10 TR KDDA	TX HOUSTON	1104 CHB-BH	102.50 AU WBEM	NY BUFFALO	730 JEB-MN	106.10 TR KDAI	TX DENTON	940 CHBIFL
99.10 MS WORK	FL JACKSONVILLE		102.70 ES KIKX	CO MANITOU SPRIN		106.10 MS KLOO	OR CORVALLIS	459 JJE-CA
99-10 AU KBUM	ID IDAHO FALLS		102,70 TR KIIS	CA LOS ANGELES	2474 SRE1HJ	106.10 AU KDNT	TX DENTON	661 ABO-IL
99.30 ES CFGX 99.30 TR WEZY	BC VANCOUVER		102.70 MS KCYS	WA RICHLAND	1018 GHA-TX	106.20 ES VSB	BA HAMILTON	1056 DHI-NY
This as well	FL COCDA		102.70 AU NORD	WA RICHLAND	850 FAC-ND	106.30 ES KY80	MO BOLIVAR	1525 JJE2CA
99.30 AU WAEN	TA EROSSVILLE		102.90 ES WCC0	MM MINNEAPOLIS		106.30 TR KPRA	TX HEREFORD	1249 MM-FL
99.50 ES MONG	GA DOUGLAS	2260 JJE20A	102.90 TK KBUE 102.90 MS KMGC	TX MOUSTON TX DALLAS		106.30 RS KPAN		1103 JJE2CA
33"20 IS MOAK	FL ST PETERSBURG		102.90 AU WBCS	WI MILWAUKEE	473 SCH-DN	106,30 AU KVWO 106,50 ES WSFL	MY CHEYENNE MC BRIDGETON	949 RBR-MI 1552 FMC-MD
99,50 MS MERY	DE WASHINGTON		103.10 ES CF#X	Dw COBURG		106,50 TR KKLD	CA SAM DIEGO	2513 SREIHI
99.50 AU WKDG	KY MENDERSON	567 JEB-FM	103.10 TR 40T0	LA COLUMBUS		106.50 MS WOLR	MI KALAMAZOO	1048 DAL-CO
99.70 ES XHPL	COACIUDAD ACUAA					106.50 AU WDLB	WI MARSHFIELD	591 FMC-HD
99.70 TR WMC 99.70 MS WJMI	TH MEMPHIS		103.10 AU KJAM	SD #ADISOM		106.70 ES WYRY	GA GAINESVILLE	2040 JJEZUR
32,70 RU MAC	MI JACKSON In KEMPHIS		103.30 ES KKOV	TX WICHITA FALLS				2481 SREIHI
29, 90 ES KTGA	TX EL PASO		103.30 TR KEEE 103.30 MS KMTG	TX WACOGDOCHES TX WICHITA FALLS		106.70 MS WWW	MI DETROIT	891 GHAZOK
99,90 TR KROB	TX ROBSTOWN		103.30 AU WVEE	5A ATLANTA		106.90 ES KNRD	CO DENVER TX COMRDE	696 JEB-Mb 1488 JPIICA
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MHZ PR CALL	STATE/LOCATION DI	ST DXER-LOC
106.90 TR XHPJ	NL MONTERREY	1101 CH01FL
106.90 MS WKXX	AL BIRMINGHAM	956 JPI-NM
106.90 AU WSWT	IL PEDRIA	
107.10 ES CIBM	PR RIVIERE DU LO	J1884 DAL-CO
107.10 TR KFLZ	TX BISHOP	
107.10 MS KDUZ	THE HUTCHINSON	930 PHUS 029
107.10 AU NONE		0nT
107.30 ES WWBA	FL ST PETERSBURG	1707 FMC2ND
107.30 TR KOSZ	CA GROVER CITY	2365 SHEIHI
107.30 MS WWBA	FL ST PETERSBURG	1091 PSA-UN
107.30 AU WEOL	DH ELYRIA	613 JEB-MM
107.50 ES WBY8	PA BOYERTOWN	1505 GHA-TX
107.50 TR KLVE	CA LOS ANGELES	2474 SREIHI
107.50 MS KNOK	TX FT WORTH	1298 SCH-OM
107.50 AU KPPL	CO LAKELAND	699 JEB-MM
107.70 ES WGMR	NY ALBANY	1660 PDY-TX
107.70 TR WNCT	NC GREENVILLE	839 ALE-LA
107.70 MS KWIC	TX BERUMONT	1192 PSA-0M
107.70 AU KKSS	MO ST LOUIS	
107.90 ES WFSI	MD ANNAPOLIS	1423 PDY-TX
107.90 TR KWVE		2499 SRE1HI
107.90 MS KULY	TX EDINBURG	1062 ABO-IL
107.90 AU WAUR		824 7BU-CT

PERSONAL BESTS - FM STATISTICS

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

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

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

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RBR- RUSS BROWN MI ST JOSEP RBRI ROGER BROWN IA ARES RCO- ROBERT COOPER IA OLGA-OMA RLE- ROW LEBLANC LA MARRERO RSA- RICK SAMEDRD IX BURNETT DES DROST SEYBOL IX BURNETT	43 28 80 31
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RCO- ROBERT COOPER G4 GALAHOMA RLE- ROM LEBLANC LA MARRERO RSA- RICK SAMFORD TX BURNETT COEL POREPT GEYROLD NY DUNKTES	42 2 93 7
RLE- ROM LEBLANC LA MARRERO RSA- RICK SAMFORD TX BURNETT DOSE- RODEOT SEYBOLD NY DIDN'T R	CITY 35 28 97 32
RSA- RICK SAMFORD TX BURNETT	29 54 90 7
DOE" BUREDT SEABOLD MA DINKING	30 AE 98 1A
AST- ROLDH STROBEL IN MUNCTE	42 29 79 20
RWO- RICHARD WOOD LA BATON RO	42 29 79 20 40 11 65 23
ANDP RICHARD WOOD AT PEDICINE	42 29 79 20 40 11 65 23 6E 30 23 91 11
SCH- SAUL CHERNOS (IN BURNT R)	42 29 79 20 40 11 65 23 6E 30 23 91 11 HAT 50 3 110 40
SSR- STU GRADE IA SIGNA CI	42 29 79 20 40 11 65 23 66 30 23 91 11 40 5 3 120 40 63 44 39 78 42
SRE- SHELBY REMINSTON CT NEW DAVE	42 29 79 20 40 11 65 23 6E 30 23 91 11 HAT 50 3 120 40 ER 44 39 78 42 Y 42 30 96 23
SREI SHELDON REMINGTON HI UPPER KA	42 29 79 20 40 11 65 23 6E 30 23 91 11 HAT 50 3 10 40 ER 44 39 78 42 Y 42 30 96 23 1 11 72 56
STO- STEUE TORFEE IN UINCENNE	42 29 79 20 40 11 65 23 66 30 23 91 11 67 3 120 40 ER 44 39 78 42 Y 42 30 96 23 Y 41 16 72 56 000 19 29 154 53
SUF- STEUE WEST ON -OUFSTEN	42 29 79 20 40 11 85 23 6E 30 23 91 11 6E 31 20 31 20 FE 44 39 78 42 Y 42 30 96 23 Y 42 30 96 23 Und 19 29 154 53 1 1 38 44 87 32
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Mail Bill sill Ale CT ROZRON	42 29 79 20 40 11 65 23 66 40 11 65 23 67 40 11 65 23 68 40 11 65 23 68 40 11 65 23 68 41 59 78 42 7 42 30 96 23 7 42 30 96 23 7 42 30 96 23 1 41 18 72 56 10 40 19 29 154 53 1 38 41 67 33 1 49 48 23 89 75 18 147 48 23 89 25 147 48 23 89 35 147 48 23 89 43 147 48 23 89 35 147 48 23 89 43 147 48 23 89 43 147 48 24 89 55 147 48 24 89 48 48 48 48 48 48 48 48 48 48 48 48 48

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

PUBLISHER'S NOTES:

THANKS to Dan Cashin for turning us on to the humor of the BIZZARO comic artist Piraro.

You can find collections of Piraro's comics in your local bookstore, or in many daily newspapers. Dan recently helped spread the word about WTFDA and TV/FM DXing at the recent North American Shortwave Association SWI. Winterfess, near Valley Forge, PA.

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

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

WINEGARD UPGRADES PRODUCT LINES

BY RICH WERTMAN

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

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

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

The new CA line consists of 7-V/U Models 64" to 177" long.

1- F.M. Beam # CA 6065 127" 10 Element 3- VHF Antennas 78"/ 110"/ 187" long 3- UHF Corner Yagi's 49"/ 74"/ 95" long

Again the most popular DXER Antennas are UPS shippable. I believe the biggest news is the new Chromstar Preamplifier Line. This line replaces all Winegards previous models, including the AC-Line, GA and CP lines and the PA Line of Preamps. Whats left is on warehouse shelves.

The new amps all are mast mounted and 75 OHM in and down to the power supplys. They

are mast mounted and 75 OHM in and down to the power supplys. They also have new stripline construction and better lightning protection. The new AP-4800 replaces the PA-4975 and at a much better price. The new line is now available, so if you need anything in the Winegard line, please drop me a line.

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

STATION BREAK

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

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

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

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

Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785

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