

The Worldwide TV-FM DX Association

Serving the VHF-UHF Enthusiast



VHF-UHF DIGEST

E-ZINE VERSION

APRIL 2002

The VHF-UHF Digest is the official publication of the Worldwide TV-FM DX Association dedicated to the observation and study of the propagation of long distance television and FM broadcasting signals at VHF and UHF. The WTFDA is governed by a board of directors: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK AND MIKE BUGAJ.

WHEN IS YOUR MEMBERSHIP UP?

In order to keep your VUD arriving at your home without interruption, look for your name on this list. Your membership ends on the last day of the month shown. Renew **early!**

April

Eric Fader	John Hourigan
Dan Oetting	William Thompson
Larry Weisberg	James Ivil
Leslie Green	Tim Clampit
Robert Fischer	Tom Christman
Ben Cox	Milton C. Bay
Doug Gault	Barry Shinall
Wayne Johnson	

WTFDA INTERNET CHAT

Every Tuesday and Friday night at 10PM EST

Join us for chat on the internet. The address is <http://www.talkcity.com>. Look for the section that lists "open rooms" and click on it. Then look for wtfda listed as one of the rooms. Click on that. You will go right to our chat area.

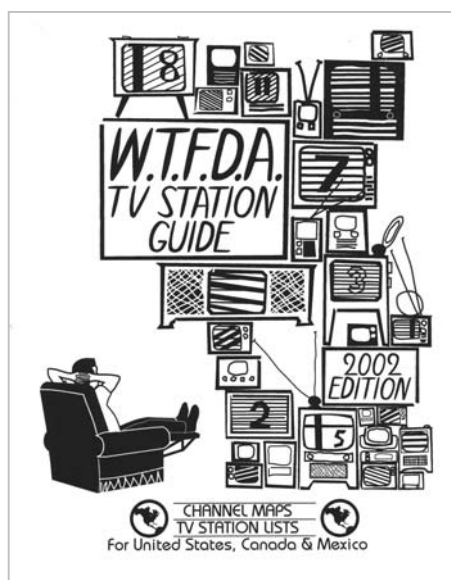
If this is your first time joining chat you'll have to register with Talkcity first. Enjoy!

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This month we have our final installment of Mid-Latitude SpE by Mike Hawk and some digital television talk that appeared very recently on the WTFDA list plus some very interesting Q and A. Next month we'll begin with some great articles by Bob Cooper.

So, find yourself a comfortable chair, adjust the lamp, open a soda or an adult beverage and enjoy this issue of the VHF-UHF Digest.



The 2002 WTFDA TV Station Guide IS NOW READY For Skip Season!

You just can't get any better than this! Over 400 pages of listings by channels and by plots on channel maps...full power, LPTVs, translators and DTV stations. The WTFDA Station Guide has it all! Make your check or money order for \$23.00 (US funds for those outside the USA) payable to **Dave Janowiak** and mail it to:

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The Mailbox

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MIKE BUGAJ MBUGAJ@SNET.NET

APRIL 2002

Welcome back, and welcome to spring! Don't we all love those rumbling and crashing sounds as warm and cold air collide. It's time for thunderstorms and it's time for some tropo and if you live in the southern states, it just may be time for some E-skip. Time to check your antenna connections and make sure your rotor is working and all of your coax F connectors are socked on tightly. Take a look at your antennas to see if all of the elements are still attached and not bent into a pretzel shape. It's spring cleaning time for your antenna system.

A worthwhile addition to your dx den might be the WTFDA TV Station Guide for 2002. Although the guide has only been available for a short time as of this writing, sales are brisk. The TV scene has changed in two years. More stations are going digital and stations above ch60 are being forced to relocate. LPTVs are changing channel positions. The TV Station Guide has all the newest changes so if you want one or need one, get it now before they're sold out!

MEMBERS AND MORE

This month we welcome **Emily Keene** to the WTFDA. Emily lives in Uniontown, PA . Emily writes that she has been a Dxr since she was 8 years old. She also told me how many years ago that was, but that will give away her age so I won't tell. But I will say that she's younger than me. Emily said "...but now I am interested in learning about other signals besides my usual MW and shortwave catches. I am especially interested in TVDX after having read John Zondlo's intriguing little book "Discover Dxing" and hope that joining your club will give me an opportunity to learn more about what is possible." Keep reading the VUD and keep reading the posts on the WTFDA list and you'll be learning and having fun at the same time.

Over on the renewals-received side this month we have dues from **John Broomall**(GA), **Allan Dunn**(MA), **Dave Nieman**(NY), **Luis Franceschi** in beautiful Ponce, PR, **Winton Smith** in sunny Kingston, Jamaica, **Tim Clampit**(MI), **Robert Fischer** in frosty Fairbanks, AK, **Nathaniel Ely**(WI), **Harry Hayes**(PA), **Jeff Wolf**(MD), **Frank Merrill**(IL), **Bruce Elving**(MN), **Doug McAbee**(MI), **Burton Zacks**(GA), **John Zeis**(PA), **Thomas Leu**(OH), **Bill Dvorak**(WI), **Gerard Hart**(NY), **Ryan Grabow** in lovely Patchogue, NY, **Leonard Nix**(FL), **Edward Cotton**(VA), and **Joseph Martin**(CA). This month we have multiple renewals for three years! Thank you! We must be doing something right.

I received a letter in the mail from **George Hamer**, who had trouble finding the Antenna Performance website on the internet. The correct URL (address) for this website is the following: <http://www.antennaperformance.com>. George was looking for a listing of their products. Ed Hanlon has a complete list of all his TV and FM antenna goodies there for your viewing pleasure. There is no "catalogue" as such, but you can easily download the webpages and print them at your leisure. Antenna Performance, located in Bolton, CT is definitely NOT out of business. George also had a problem locating Scala Electronics, a manufacturer of professional antenna and filter products. The problem turned out to be a name change. Scala is now Kathrein-Scala Division with a web address of <http://www.kathrein-scala.com>. Remember though, that Scala does not sell consumer type antennas, but heavy duty transmitting antennas for the broadcast industry. If you want to order a catalog from them, you can order one right there on their website.

Edward Cotton sent along a short note said "I don't remember what the dues are since it isn't printed in the publication anymore." Hey Ed...yes it is! Look at the inside back cover where you will find the Sign-Up/Renewal form. Look directly under "Sign me up for one year, two years, 10 years, 15 years or more." But even without noticing this, the check you sent was pretty much right on the money.

Here is more from **J. Conway Dabney**: "I still have much of my original equipment which is now 40 plus years old. I have my Knight kit am/fm receiver 1960, a Knight kit 16 watt hifi amplifier 1960, (my original kit was built in 1957 and later sold), a 35 watt stereo amplifier made from an RCA hifi schematic in '62, a Utah 15" woofer with mounted tweeter which Santa delivered in '57, a Scott fm tuner '64 and a Heathkit color tv '65. Last time I checked all were functioning like new except for the Knight amplifier which has a blown output transformer. I also have numerous new electron tubes from the 50s and many tubes from color tvs. Among other things, I also have my family's original 55 Chevy (!! –Mike), original fly rod '53, 5.5 hp Johnson outboard engine '52. Maybe I should open a museum. (some of this stuff could probably fetch big bucks on eBay –Mike...and I thought I was a packrat)

ANARC AWARDS

The WTFDA is a member of the Association of North American Radio Clubs. Recently the ANARC announced the recipients of the 2002 Don Jensen Distinguished Service Award and Certificates of Recognition. The 2002 Don Jensen Distinguished Service Award was given to Ralph Brandi. Ralph is the backbone of the ANARC and the North American Shortwave Association. He and several other hobbyists formed the "Save the BBC Coalition." The purpose of this coalition was to open the eyes of the British government to the mistake of closing down the BBC's Australasian and North American services.

The "Save the BBC Coalition" received a group Certificate of Recognition from the ANARC as well as the "RCI Action Committee", which is an effort to restore funding to Radio Canada International.

All of the awards were presented during the 15th Annual Winter SWL Fest Banquet held during the weekend of 8-9 March 2002 in Kulpville, PA.

M.L.B. TV FLAGSHIP STATIONS

Thanks to Ken Onyschuk for this info:

American League

Anaheim KCAL-9, Baltimore WJZ-13/WFTY-50/WNUV-54, Boston WFXT-25, Chicago WGN-9, Cleveland cable only, Detroit WKBD-50, Kansas City KMBC-9/KCWB-29, Minnesota KMSP-9, New York WCBS-2, Oakland KICU-36, Seattle KIRO-7, Tampa Bay WTSP-10 Texas KDFW-4/KDFI-27 and Toronto CBC-TV.

National League

Arizona KTVK-3, Atlanta WTBS-17, Chicago WGN-9/WCIU-26, Cincinnati cable only, Colorado KWGN-2, Florida WAMI-69, Houston KNWS-51, Los Angeles KCOP-13, Milwaukee WCGV-29, Montreal TSN-FF, New York WPIX-11, Philadelphia cable tv only, St.Louis KPLR-11, San Diego KUSI-9 and San Francisco KTVU-2.

Ken writes "I really get annoyed when TV stations use network names instead of call letters. Here in Chicagoland all network stations never mention calls... only channel numbers like CBS-2. It stinks. I was in the South Bend, IN area last November and viewed their TV news at World Series time. All TV stations gave their call letters proudly. I will say that all other Chicago TV stations like WGN-9, WYCC-20, WCIU-26, etc., give calls regularly.

LAST BUT NOT LEAST

Rich Wertman reports "Just wanting to let all know I'm now down to 12 Channel Master 9515 remote controlled h/d style rotors left. You will not find these anywhere else...just check and see!!! Starke hasn't had any of these in 6 months. If you need a good lower cost h/d rotor let me know .They are Still \$139.99." It's time to go up on the roof and check things out up there. If you think you need a rotor see Honest Rich. Take care everybody and see you all next month -Mike

FM NEWS

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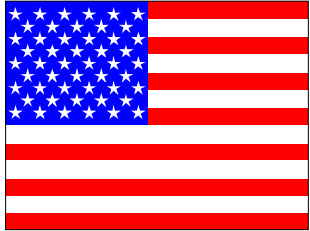
KEY TO

ABBREVIATIONS:

&: satellite programming
 AF: New frequency allocation **accepted for filing** for a new FM license
 AFA: American Family Association
 CC: **call letter** change
 CL: **city of license** change
 CX: a **construction permit** has been **canceled**
 C1,C2,etc: a change in status to that FM license **class**
 DA: **directional antenna**
 DE: station has been **deleted**
 FC: **format change**
 GA: **granted amendment** to the table of FM allocations

GE: **granted extension** of construction permit
 GX: **granted replacement** of expired permit
 LC: **license to cover** filed (means station is ready to come on air)
 MC: **multiple-city** legal ID
 NC: **no change** yet on a reported change/permit
 ND: **non-directional** antenna
 NO: **not on the air**
 NS: **new station** granted
 NW: **new station** signs on
 OSA: **one-step application** granted for change
 PA: **proposed amendment** to change FM table of allocation
 PC: **power change** on the air ("**>**" for increase, "**<**" for decrease, when known)

Ital. Calls: LPFM station
 PG: **power change** granted ("**>**" for increase, "**<**" for decrease, when known)
 QC: **frequency change** occurred
 QG: **frequency change** granted
 RA: silent station **returns to air**
 RE: station **requests extension** on permit
 RX: station **requests replacement** of expired permit
 SG: **slogan change** or update
 SI: **station is silent**
 XA: **dismissed amendment** to FM allocations
 XC: **transmitter site change** occurred
 XG: **transmitter site change** granted



UNITED STATES

ALABAMA:

Atmore: WYDH 105.9 FC to alternative (Mobile)
 Montgomery: WBAM 98.9 PG> 100 kW, C1, 981', XG: 31-58-05 / 86-13-01
 Ozark: WAQG 91.7 PC> 5 kW, class C3

ALASKA:

Anchorage: KRUA 88.1 inc. to 833', XC: 61-20-11 / 149-30-48

ARIZONA:

Colorado City: KZNZ 107.1 QG to 107.3, C1, PG> 34 kW, 1138 ft.
 Flagstaff: KLOD 100.1 FC to hot AC
 Holbrook: KBMH 90.3 NW, AFA religion (&)
 Kingman: KGMM 100.1 QC from 99.9

ARKANSAS:

Monticello: KHBM 93.7 PC> 23 kW, C2, 417 ft.

CALIFORNIA:

Arnold: KCFA 106.1 FC to regional Mexican, // KNT0 "La Favorita" (Sacramento)
 Bishop: KWTW 88.5 LC
 Chowchilla: KNT0 93.3 CC (ex KSKD)

California:

Garden Grove: KMXN 94.3 FC to alternative "Super Cool" (emphasis on local artists) (L.A / Anaheim)
 Gilroy: KBAY 94.5 XC: 37-12-33 / 121-46-30
 Healdsburg: KRSH 95.9 CC (ex KSXY), FC to alternative "the Crush" (Santa Rosa)
 Livingston: KSKD 95.9 CC (ex KNT0)
 Lompoc: KWSZ 105.1 PC 420w, 1217', XC: 34-41-28 / 120-15-58
 Lucerne: KPFF 104.5 LC
 Mariposa: KUBB 96.3 dec. to 2096', XC: 37-32-01 / 120-01-46
 Merced: KBKY 94.1 LC
 Middleton: KSXY 98.7 CC (ex KRSH), FC to CHR "Hot 98.7" (Santa Rosa)
 Needles: KNKK 107.1 NW, modern AC "The Knack"
 Randsburg: KGBM 89.7 NW, contemp. Christian
 San Jose: KMTG 89.3 CC (ex KLEL)

COLORADO:

Rocky Ford: KJQY 95.5 NW, adult standards CC (ex KOOO) "The Pack 95.5"

CONNECTICUT:

Hartford: WHCN 105.9 FC to classic hits "The River"
 Norfolk: WSGG 89.3 NW, Spanish religion
 Stonington: WUXL 102.3 CC (ex WAXK), FC to classic hits "XL 102"

FLORIDA:

Crystal River: WHGN 91.9 C3, PC> 39.3 kW, 482 ft, XC: 28-50-29 / 82-30-21

Midway: WOKL 100.7 FC to urban "The Beat"

Newberry: WHHZ 100.5 FC to modern rock "Z100"

Quincy: WXSX 101.5 PC 37 kW, 489 ft, XC: 30-29-32 / 84-17-13

Santa Rosa Beach: WWAV 102.1 PG 50 kW, C2, 374', XG: 30-23-10 / 86-17-48

Vero Beach: WGNX 99.7 PG> 50 kW, XG: 27-44-07 / 80-27-27

GEORGIA:

Albany: WGNP 90.7 PC> 5.5 kW, 305 ft.

Bowdon: WMAX 105.5 RA with 80's hits, "Max" (Atlanta), CC (ex WYAI)

Hogansville: WMGP 98.1 CC (ex WMAX)

Pearson: WPNG 101.9 FC to ABC AC "Freedom"

Sylvester: WZBN 102.1 CC (ex WWSG), FC to urban "Blazin 102" (Albany)

Talking Rock: WNSY 100.1 PC 7 kW, 617', C3

Washington: WXKT 100.1 RA with a/c

HAWAII:

Lihue: KHJC 88.9 NW, cont. Christian

Pukalani: KJMD 98.3 CC (ex KMVI), FC to R&B Hawaiian "Da Jam" (Maui)

IDAHO:

Sun Valley: KSKI 103.7 FC to hot AC

ILLINOIS:

Casey: WCBH 104.3 FC to dance "The Party" (Terre Haute, IN)

Charleston: WWGO 92.1 FC to rock in March (simulcast WCBH before that)

Fairbury: WBZM 107.7 PG 22.5 kW, 351 ft, DA, XG: 40-37-45 / 88-46-52

Geneseo: WAXR 88.1 PC> 3 kW, XC: 41-28-47 / 90-16-08

Lincolnshire: WAES 88.1 NW, variety

Mt. Vernon: WIBV 102.1 CC (ex WAJT) "Star 102", FC to classic hits

Pana: WEGY 100.9 PG 6 kW, 328 ft, CL: Macon, IL, XG: 39-47-11 / 88-59-29

Petersburg: WYVR 97.7 CC (ex WLGM) "The River"

INDIANA:

Churubusco: WHTD 96.3 (CC ex WWWD), FC to CHR "Hits 96" (Fort Wayne)

Marion: WCWC 94.3 lc

New Carlisle: WZUW 102.3 CC (ex WGTC), FC to modern rock (South Bend)

W. Lafayette: WGLM 106.7 FC to soft AC

IOWA:

New Hampton: KCZE 95.1 FC to country

Osage: KSMA 98.7 PC> 25 kW, 328', C3, XC: 43-21-43 / 93-2-53

KANSAS:

Emporia: KVOE 101.7 XC: 38-21-45 / 96-07-00

Haysville: KFBZ 105.3 CC to hot AC (Wichita)

KENTUCKY:

Lancaster: WRNZ 105.1 XC: 37-36-6 / 84-34-27

Lerose: WOCS 88.3 PC> 1 kW, 322 ft, XC: 37-36-23 / 83-41-16

Louisville: WAMZ 97.5 inc. to 666', XG: 38-15-40 / 85-25-43

LOUISIANA:

Hammond: *NS 107.9 100w, 132 ft.

Jennings: KJLA 92.9 CC (ex KJEF) "LA 92.9", FC to oldies (lake charles)

Lake Charles: KBXG 99.5 CC (ex KHLA) K-Big 99.5", FC to Country

MAINE:

Isleboro: WBYA 105.5 PG< 20 kW, DA

MARYLAND:

Baltimore: WYPR 88.1 CC (ex WJHU)

Pocomoke City: WKHW 106.5 FC to classic hits

MASSACHUSETTS:

Nantucket: WNCK 89.5 CC (ex WAZK)

Newburyport: WNEF 91.7 NW, folk & urban // WUMB "Folk Radio" (Boston)

MICHIGAN:

Frankenmuth: WRCL 93.7 CC (ex WZRZ) "Club 93.7"

Gladwin: WGDN 103.1 XG: 43-57-14 / 84-32-56

Holton: WSHN 100.1 FC to hot AC

Honor: WKVK 100.7 PC> 4.7 kW, 367 ft. CC (ex WAIR) "The Peak"

Lapeer: WRXF 103.1 FC to classic rock "US 103.1" (Flint)

Traverse City: WLJN 89.9 PC> 39 kW

Whitehall: WEFQ 97.5 FC to country "Kickin' Country"

MINNESOTA:

Nisswa: KBLB 106.7 QC from 93.3, dec. to 558', XC: 46-26-34 / 94-22-55

Sauk Center: KMSR 94.3 reported SI (St. Cloud)

Sunburg: KLFN 106.5 PG 6 kW, 328 ft, XG: 45-22-13 / 95-8-26

Worthington: KWOA 95.1 FC to WW1 hot AC (&)

MISSISSIPPI:

Clarksdale: WWUN 101.5 SI

Oxford: WAVI 91.5 NW, AFA religion (&), PG> 8.3 kW, C3, 575 ft, DA

MISSOURI:

Cape Girardeau: KRCU 90.9 PC> 6.5 kW, C2, XC: 37-24-17 / 89-34-6

Gordonville: KCGQ 99.3 PG> 5 kW, XC: 37-21-34 / 89-37-16

Lamar: KHST 101.7 PG> 22 kW, C3, XG: 37-25-27 / 94-16-11

Vandalia: KKAC 104.3 PG> 11,380w, 465 ft, C3, XG: 39-25-04 / 91-27-26

Warsaw: KWKJ 98.5 NW, hot AC "J 98.5"

Warsaw: KAYQ 97.7 PG> 6 kW

MONTANA:

Cascade: KIKF 104.9 NW, country "Kickin' Country"

Great Falls: KINX 107.3 NW, modern rock "X107"

NEBRASKA:

Hubbard: KAYA 91.3 PG> 9 kW, C1

Kearney: KRNY 102.3 PC< 77.3 kW, XC: 40-36-8 / 98-50-21

Lincoln: KLTQ 101.9 FC to soft AC "Lite 101.9",
CC (ex KZFX), class C0, PC 96.4 kW, 1198 ft,
XC: 41-3-1 / 96-11-33

NEVADA:

Carlin: KHIX 96.7 PG 12.5 kW, 1598', C1
Pahrump: KNYE 95.1 dec. to -93 ft.

NEW JERSEY:

Cape May CH: WGBZ 105.5 FC to dance // WZBZ
Pleasantville: WZBZ 99.3 FC to dance
Trenton: WKXW 101.5 PC 15.5 kW, 902 ft.
Trenton: WWFM 89.1 PG 1150w, 292 ft.

NEW MEXICO:

Albuquerque: KLYT 88.3 PG> 4.1 kW, C, 4245 ft,
XG: 35-12-48 / 106-26-58
Raton: KBKZ 96.5 PG> 5.4 kW, C2
Roswell: KMOU 104.7 dec. to 328', XC: 33-24-49 /
104-22-49

NEW YORK:

Albany: WKLI 100.9 CC (ex WCPT)
Canandaigua: WCIY 88.9 PC 500w, 1043', XC: 42-
44-51 / 77-25-24
Chenango Bridge: WYOS 104.1 FC to dance/CHR
"Wild 104" (Binghamton)
New York: WQCD 101.9 PC 29.5 kW, 636', XC: 40-
47-17 / 74-15-19
Salamanca: WQRT 98.3 PC> 3.2 kW, 443', DA
Utica: WRVN 91.9 PC> 1.9 kW, -62 ft,
XC: 43-8-31 / 75-13-36
Watertown: WWJS 90.1 reported SI

NORTH CAROLINA:

Biltmore Forest: WOXL 96.5 NW, variety (this freq.
Battle is finally settled, with FCC auction winner
Liberty Prod. Taking over from Orion Comm.
On 2/21/02). WZLS 96.5 goes silent, CC (ex
WYSE)
Dallas: WSGE 91.7 PG> 6 kW, 853 ft, DA, class
C2, XG: 35-24-26 / 81-7-48
Greensboro: WKSI 98.7 FC to modern AC "The
Zone"
Mars Hill: WVMH 90.5 PG> 300w, 262', XG: 35-49-
39 / 82-33-6

NORTH DAKOTA:

a

OHIO:

Cleveland: WRUW 91.1 PC> 15 kW, class C1, 292
ft, DA as moot
Cleveland: WQAL 104.1 PG 13 kW, 961 ft, XG: 41-
20-28 / 81-44-24
Fredericktown: WWBK 98.3 FC to CHR "Kiss"
Galion: WFXN 102.3 CC (ex WGLN)
Hicksville: WFJZ 106.7 PC 2850w, 482 ft.
Ironton: WBKS 107.1 CC (ex WFXN), FC to CHR
"Kiss" (Huntington)
Loudonville: WBZW 107.7 FC to CHR // WWBK
"Kiss"
N. Kingsville: WFXJ 107.5 PG 3.6 kW, 427', XG:
41-53-4 / 80-38-28
Oberlin: WOBC 91.5 PG> 1 kW, 135 ft, XG: 41-
17-38 / 82-13-20
S. Webster: WZIO 94.9 FC to cont. Christian //
WUFM "Radio U"
Steubenville: WBJV 88.9 LC

OKLAHOMA:

Pawhuska: KBVL 103.9 FC to ABC a/c

OREGON:

Lake Oswego: KLTH 106.7 CC (ex KKJZ) "Lite Rock
106.7, K-Lite" (Portland)

PENNSYLVANIA:

Cooperstown: WHUG 107.7 LC
Harrisburg: WRBT 94.9 PC< 24.5 kW, DA
Philadelphia: WYSP 94.1 adds talk, Don & Mike
mid days
Pt. Matilda: WJHT 107.9 CC (ex WNCL), FC to
dance "Hot 107.9" (State College)
Ridgebury: WREQ 96.9 PC> 3.6 kW
Tafton: WPGP 88.3 LC
Warwick: WBMP 88.1 NW, cont. Christian "Word
FM" (Philly)
Williamsport: WCRG 90.7 LC

SOUTH CAROLINA:

Saluda: WJES 92.1 PG> 6 kW, XG: 34-2-23 /
81-39-53
Walhalla: WGOG 96.3 FC to JRN country (&)

TENNESSEE:

Tullahoma: WUSX 93.3 CC (ex WXMR), FC to
country "US 93" (Huntsville)

TEXAS:

Abilene: KAQD 91.3 PG> 10.5 kW, C3, XG: 32-
28-37 / 99-44-56
Brownfield: KLZK 104.3 FC to soft AC "Star 104.3"
Caldwell: KLTR 95.1 LC
Cedar Park: KXMG 93.3 dec. to 1926'
Corpus Christi: KMXR 93.9 inc. 932', XC: 27-45-07
/ 97-38-17
Corpus Christi: KRYS 99.1 XC: 27-45-07 / 97-38-17
Kerrville: KHKV 91.1 CC (ex KKER)
Kerrville: KKER 88.7 CC (ex KHKV)
Littlefield: KAIQ 95.5 FC to country // KZZN, PG
25 kW, 328 ft, XG: 33-39-34 / 102-15-56
Nacogdoches: KJCS 103.3 PG 22.5 kW, C2, 801 ft,
XG: 31-25-59 / 94-49-3
Pearsall: KMMG 104.1 XG: 28-43-17 / 98-45-44
Perryton: KEYE 96.1 FC to oldies
Pittsburg: KDVE 103.1 PC 25 kW, C3, 302'
Robinson: KDOS 107.9 CL from Corsicana, TX,
PC< 6 kW, 328', XC: 31-30-33 / 97-10-3
Robstown: KSAB 99.9 XC: 27-45-07 / 97-38-17
San Angelo: KWFR 101.9 FC to classic rock
Springtown: KSQX 89.1 CC (ex KMQX) "Power FM"
Sterling City: KCSE 96.5 FC to rock "The Rock"
Terrell: KRVF 107.1 QG to 106.9, C3, PG 17
kW, 397', XG: 32-6-12 / 96-22-23, CL: Kerens,
TX
Uvalde: KBNU 93.9 QC from 93.7, class C3,
PC> 25 kW

UTAH:

Kanab: KHUL 101.1 CC (ex KONY, KEOT)
Nephi: KCSL 103.9 RA with rock "Mad Dog"
St. George: KONY 99.7 CC (ex KEOT) "Coyote"

VERMONT:

Springfield: WXKK 93.5 PC 1450w, 472', XC: 43-
18-55 / 72-27-37

VIRGINIA:

Bowling Green: WWUZ 96.9 FC to classic rock
Grundy: WMJD 97.7 FC to alternative "The End"
Spotsylvania: WYSK 99.3 FC to alternative

WASHINGTON:

Chehalis: KACS 90.5 PG> 6 kW, DA
Quincy: KZML 95.9 PG> 11 kW, 1050 ft, C2
Wenatchee: KKRZ 104.9 QC from 104.7, PC> 6.5
kW, XC: 47-28-44 / 120-12-49
Yakima: KXDD 104.1 PG> 100 KW, 804 ft, DA
Yakima: KYPL 91.1 PG> 26 kW, 79 ft, C1

WEST VIRGINIA:

Clarksburg: WPDZ 104.9 PC 7.4 kW, 597', DA, B1,
XC: 39-15-22 / 80-6-46
Dunbar: WZJO 94.5 FC to hot AC "Mix 94.5"
Princeton: WKOY 100.9 FC to classic rock "The
Eagle" (Bluefield)
Tazewell: WKQY 100.1 FC to classic rock "The
Eagle" (Bluefield)

WISCONSIN:

Madison: WSUM 91.7 LC
Mukwonago: WFZH 105.3 PC 6kW, 328 ft, XC: 42-
54-23 / 88-29-01
Platteville: WPVL 107.1 FC to ABC oldies (&)

WYOMING:

Laramie: KKHI 104.5 PC 8 kW, C2, 1073', XC:
41-18-39 / 105-27-12
Powell: KCGI 104.1 NW, classic rock "The
Eagle"



BRITISH COLUMBIA:

Burns Lake: CBXB 99.1 PG> 547w

Burnaby: *NS 90.1 app by Simon Fraser U.
Fort Fraser: CBXR 102.9 PG< 106w.
Houston: CBUR 102.1 PG< 462w

British Columbia:

Merritt: CIFM-3 103.9 PG<40w, XG 22km SE
Powell River: *NS 90.1 app for new community
station, 5 watt power
Smithers: CBRS 97.5 PG< 220w
Vancouver: *NS 88.9 50w TIS
Vancouver: CFBT 94.5 NW, urban "The Beat"
Vanderhoof: CBRV 96.7, PG> 198w
Victoria: *NS 88.9 TIS, 50 w

MANITOBA:

Emerson: *NS 102.3 1w TIS app
Morris: *NS 101.3 1w TIS app
St. Norbert: *NS 102.3 1w TIS app
Winnipeg: *NS 92.9 app by Red River College

ONTARIO:

Bracebridge: CFBG 100.9 QG to 99.5, 12 kW
Chatham: CFCO-1 FM ?? wants PG>250w
Nakina: CFNO 107.1 app for 50w relay
Ottawa: *NS 96.5 app for 200w temp. French
lang. Youth station
Owen Sound: CJLF 90.1 wants 75 w relay
White River: CFNO 100.7 wants 20w relay

QUÉBEC:

Les Mechins: CHRM 104.1 app for 49w relay
Montreal: CHOM 97.7 FC to classic rock
Trois Rivieres: CBMT-1 PG> 14 kW, XG 1.9km NE

SASKATCHEWAN:

Dafoe: CJVR-1 100.3 100 kW, tower ht 500'
Melfort: CJVR 105.1 100 kW, 500 ft ht.
Moose Jaw: *NS *NS 93.7 QG to 100.7,
QG to Regina, SK TV tower near Disley, SK
Nipawin: *NS 94.7 new 14.8 kW a/c & oldies
Waskesiu Lake: CJVR-2 106.3 11 kW (proposed),
350 ft, tower ht.

METEOR SHOWER GUIDE

Here is a list of upcoming meteor showers for the month of April.

SHOWER	RUNNING DATES	PEAK	TYPE
Delta Pavonids	March 21 – April 8	April 5-6	Daytime
April Virginids	April 1–16	April 7-8	Daytime
Alpha Virginids	March 10- May 6	April 7 – 18	Daytime
Gamma Virginids	April 5 –21	April 14-15	Daytime
Librids	March 11-May 5	April 17-18	Daytime
April Ursids	March 18-May 9	April 19-20	Daytime
Lyrids	April 16-25	April 21	Major
Pi Puppids	April 18-25	April 23-24	Daytime

OKLAHOMA CITY JULY 26, 27, 28
WTFDA CONVENTION 2002

TV News

April 2002

Douglas E. Smith W9WI
 1385 Old Clarksville Pike
 Pleasant View, TN 37146-8098
 W9WI@w9wi.com http://www.w9wi.com

Abbreviations:

AF	Applied for (a new station)	PC	Power (or tower height) change on the air
CA	Class A status request/grant	PG	Power (or tower height) change granted
CC	Call change	PR	Power (or tower height) change requested
CL	City-of-license change	QC	Channel change on the air
DE	Station deleted	QG	Channel change granted
FC	Programming (format) change	QR	Channel change requested
GA	Granted amendment to the table of allocations	SI	Off the air ("silent")
LC	License to cover (for changes or new station)	XC	Transmitter site change on the air
NO	Not on the air	XG	Transmitter site change granted
NS	New station granted permit	XR	Transmitter
NW	New station on the air	*	999 watts
PA	Proposed amendment to the table of allocations		

News:

Alaska:

Anchorage	KTVA	11	PG>165kw/240m 61-25-22/149-52-20
Kodiak	KUBD-LP	11	CC from K11UQ
Palmer	K12OW	12	PG>3kw, 61-43-34/149-25-46

Alabama:

Dothan	WHAR-LP	55	CC from W55CW
Dozier	WDIQ-DT	11	NS 1kw/214m
Mobile	WALA-DT	9	NS 124kw/346m
Montgomery	WNCF	32	PC<3000kw
Sylacauga	WJXS-CA	24	CC from W24CB

Arkansas:

Arkadelphia	KETG-DT	13	QG from ch. 46, 7.3kw/305m
Fort Smith	KPBI-LP	46	QC from ch. 32, 32kw
Hope	KTSS-LP	50	QC from ch. 55

Arizona:

Cottonwood	K58AV	58	PG>10.4kw
Flagstaff	KTVW-CA	6	CC from KZZA-LP
Holbrook	KPHZ-DT	11	AF 160kw/2417m, 34-23-20/111-03-24.
Phoenix	K49DF	18	QR from ch. 49, 8.06kw
Phoenix	KHSK-LP	27	PR>130kw
Sierra Vista	KWBA-DT	44	PG<1000kw/319m
Tucson	KHRR-DT	42	NS 411.5kw/621m
Tucson	KUAT-TV	6	PR<33.9kw/1101m, 32-24-55/110-42-52

California:

Chico	KKPM-CA	28	PG>150kw
Eureka	KEAZ-LP	35	CC from K35GM
Indio	K08MX	8	QC from ch. 63, 0.5kw
Los Angeles	KSMV-LP	33	PR>22.8kw
Ontario	KFTR	46	PR<2291kw/956m
Oxnard	KADY-DT	24	NS 85kw/533m
Red Bluff	KMCA-LP	49	PR<0.14kw, 40-15-32/122-05-20
San Diego	K31FC	36	QR from ch. 31, 3.42kw, 32-41-47/116-56-09
San Francisco	KBIT-CA	28	PR>39kw, 37-45-19/122-27-06
Sanger	KFRE-DT	36	PR>594m, 37-04-37/119-26-01
Santa Maria	KWSM-LP	40	QG from ch. 62, 150kw, 34-54-37/120-11-08
Stockton	KFTL-DT	62	PR>300kw

Colorado:

Cortez	K57EX	30	QR from ch. 57, 37-21-01/108-08-01
Denver	KTFD-LP	36	QC from ch. 43, 31.4kw

Connecticut:

New Haven	WCTX-DT	39	QR from ch. 6, 100kw/333m, 41-25-22/72-57-06
New Haven	WEDY-DT	6	QR from ch. 39, 0.4kw/88m

District of Columbia:

Washington	WKRP-LP	23	QG from ch. 42, 4.4kw, 38-57-01/77-04-48 or 29.8kw, no TL change
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Delaware:

Wilmington	WPPX	31	QR from ch. 61, 800kw/374m, 40-02-30/75-14-11
Wilmington	WXHL-LP	14	PG>135.4kw (or 146?), 39-50-07/75-25-25 (or 40-02-30/75-14-11?)

Florida:

Bradenton	WXPX	42	QR from ch. 66, 2240kw/476m, 27-49-10/82-15-39
Cape Coral	WFTX-DT	35	NW 1000kw/404m
Fort Myers	WBBH-DT	15	PR>453m, 26-49-21/81-45-47
Jacksonville	WAWS-DT	32	PR>291m
Jacksonville	WBXJ-CA	43	QG from ch. 10, 44kw, 30-19-33/81-39-32 (or 49kw, 30-16-34/81-33-53)
Lake Worth	WPXP	67	PR>5000kw/290m dismissed
Melbourne	WOTF	43	CC from WFUO
Miami	WVEB-CA	21	CC from W21AX
Naples	WZVN-DT	41	PR>453m, 26-49-21/81-45-47
Orlando	WRBW	65	PC>492m, 28-36-35/81-03-35
Panama City	W54CU	54	PR 10.6kw dismissed
Rock Harbor	W61AI	49	QR from ch. 61, 150kw, but dismissed
Rock Harbor	W67AP	67	PR>150kw, but dismissed. QR to ch. 16, 0.8kw, 25-58-08/80-13-19 instead.
Tallahassee	W35BN	35	QC from ch. 19, 20kw,

W. Palm Beach	WPTV	5	30-29-32/84-17-13 PR>390m	Houghton Lake	W52CO	28	41-06-28/81-21-19, CL to Akron, OH CL to Defiance, OH; 41.3kw, 41-17-29/84-32-15
Georgia:				Michigan:			
Savannah	WTOC-DT	15	PR<53kw	Houghton Lake	W59DC	32	QR from ch. 59, 49kw, 41-39-12/83-32-53
Tifton	W51AR	38	QR from ch. 51, 1kw	Houghton Lake	W65DJ	40	QR from ch. 65, 50kw, 42-05-25/79-56-36, CL to Erie, PA
Hawaii:				Marquette	WMQF	19	PR<500kw/248m, 46-36-14/87-37-15, DA
Honolulu	KFVE-DT	23	NS 50kw/629m	Petoskey	W18BX	18	PG>4kw, 45-28-40/84-57-04
Kailua Kona	KLEI-DT	25	NS 800kw/935m	Petoskey	W31BI	31	CL to Holland, MI; 4kw; 45-28-40/84-57-04
Iowa:				Sault Ste. Marie	W56DI	24	QR from ch. 56, 150kw, 44-48-00/91-27-57, CL to Eau Claire, WI
Ames	K48FZ	48	QC from ch. 52, 3kw	Sault Ste. Marie	W58CO	34	QR from ch. 58, 25kw, 43-12-44/89-35-59, CL to Madison, WI
Davenport	KQCT-DT	34	PG>200kw	Traverse City	W58CN	14	QR from ch. 58, 100kw, 43-42-12/87-45-09, CL to Sheboygan, WI
Idaho:				Traverse City	W66CX	30	QR from ch. 66, 100kw, 42-39-35/89-02-32, CL to Janesville, WI
Sun Valley	KIDA	5	PR>65kw/780m, 43-38-36/114-23-49	Traverse City	W56DF	39	QR from ch. 56, 50kw, 42-30-35/87-53-11, CL to Kenosha, WI
Twin Falls	KBAX-LP	27	CC from K27FT	Traverse City	W52CP	49	QR from ch. 52, 80kw, 42-15-18/89-07-23, CL to Rockford, IL
Twin Falls	KCTF-LP	45	CC from K45FF	Minnesota:			
Illinois:				Intl. Falls	KRII	11	PR>200m, 47-51-39/92-56-46; CL to Chisholm
Chicago	WBBM-TV	2	PG<26.4kw/455m	Minneapolis	KSTC-DT	44	PR>1000kw/430m
Danville	W31BX	31	QC from ch. 68	Minneapolis	KSTC-TV	45	PG>430m
Springfield	WCFN	49	PC>1750kw/191m; FC to UPN	Rochester	K56HW	56	QG from ch. 60, 75kw
Indiana:				Missouri:			
Evansville	WNIN-DT	12	PG>30kw/285m	Cape Girardeau	KFVS-DT	57	PR<246kw/564m
Fort Wayne	WANE-TV	15	PG>2450kw	Jefferson City	KNLJ-DT	20	PG<12kw/248m rescinded
Indianapolis	WALV-LP	50	QR from ch. 27, 10kw	Joplin	KCLJ-LP	24	QR from ch. 46 dismissed
South Bend	WRDY-LP	12	CC from W12BK	Springfield	K15CZ	15	PG>18.9kw, 37-14-23/93-17-07
Kansas:				St. Louis	KTVI-DT	43	PG>1000kw
Independence	K54GC	54	QC from ch. 43, 18.9kw	West Plains	K38HE	38	NS, 40kw, 36-45-00/91-49-39
Liberal	K49GO	49	NS 50kw, 37-02-53/100-54-34	Mississippi:			
Wichita	KWCV	33	PC>2300kw/328m, 37-48-01/97-31-29	Laurel	WDAM-DT	28	PR<79kw, DA
Kentucky:				Montana:			
East Bernstadt	WOBZ-LP	9	PG>3kw	Belgrade	K20DY	20	PG>16.9kw, from no offset to minus
Louisville	WAVE-DT	47	PR<392m, 38-22-08/85-49-48	Dutton	K56HR	56	NS*, 47-57-46/111-39-17
Louisiana:				Great Falls	new-LP	21	AF 50kw, 47-32-09/111-17-02 reinstated
Alexandria	K27CO	27	QG from K36DS	Polson	K10LP	10	PR>90w, 47-40-42/114-36-00
Shreveport	KBXS-CA	50	PG>104kw	Rollins	K60AL	60	CL to Skidoo, MT; PG>0.15kw, 47-40-42/114-00-00
Shreveport	KSLA-DT	17	PR<175kw/518m	North Carolina:			
Massachusetts:				Boone	W65DT	65	XG 36-14-07/81-42-20
Boston	WCEA-LP	3	QG from ch. 19, 3kw, 42-18-12/71-13-08 but promptly rescinded	Charlotte	WCCB-DT	27	PC>1000kw/368m
Boston	WBPX	32	QR from ch. 68, 700kw/292m, 42-18-27/71-13-27	Greensboro	WFMY-TV	2	PG<550.8m
Norwell	WWDP-DT	52	PR>1000kw/144m, 42-00-34/71-02-46	Winston-Salem	WUNL-DT	32	PR>570kw
Maine:				North Dakota:			
Bangor	WLBZ-DT	25	NS 400kw/334m, 44-34-50/68-53-53; PR>1000kw/199m, 44-44-10/68-40-17	Harvey	K52HU	52	NS*, 47-46-32/99-55-01
Michigan:							
Berrien Springs	WYGN-LP	25	PR>37.8kw, 41-35-58/86-11-07, CL to South Bend, IN				
Grand Rapids	WZZM-TV	13	PR<257kw/324m				
Grand Rapids	WXMI	17	PR>1700kw				
Grand Rapids	WOGC-CA	25	PR<30kw, 42-48-59/85-57-20, CL to Holland, MI				
Houghton Lake	W61CS	13	QR from ch. 61, 3kw, 41-23-02/81-41-43, CL to Cleveland, OH				
Houghton Lake	W63CH	18	QR from ch. 63, 49kw,				

Nebraska:**Hastings**

**KHAS-DT 21 PR<173m,
40-38-56/98-23-01**
 KWAZ-LP 22 CC from K22CX
 K31GD 31 NS 12kw,41-59-11/101-02-28
 K46GP 46 CC to KAZJ-LP
 KAZK-LP 27 CC from K27GV

Lincoln
 Mullen
 Norfolk
 O'Neill

Pacific City K19EI 19 PG>1.1kw, already on
 Pendleton KORX-CA 16 PG>36kw
 Reedville KWBP-LP 5 QR from ch. 4, 3kw,
 45-30-58/122-43-59; CL to
 Portland
 Salt Creek K14KW 14 NS 100w,44-58-58/123-21-01
 The Dalles K06NI 6 NS 250w,45-42-43/121-06-58
 Tillamook K05KX 5 NS 650w,45-27-23/123-50-34

Nebraska:

O'Neill
 Omaha
 S. Sioux City
 Valentine
 Valentine

KAZW-LP 48 CC from K48HF
 KKAZ-CA 18 CC from K18EC
 K23GC 23 CC to KAZS-LP
 K29FH 29 CC to KCAZ-LP
 KAZD-LP 33 CC from K33GL

New Jersey:**Vineland**

**WUVP 65 PG>4070kw/396m,
40-02-30/75-14-11**
**WUVP-DT 66 PG>500kw/396m,
40-02-30/75-14-11**

Vineland**New Mexico:**

Alamogordo
 Fort Sumner

new-LP 56 AF dismissed
 K36GF 36 NS, 1.1kw,
 34-28-13/104-21-16,
 KENW-3 PBS

Hobbs
Santa Fe

K58EJ 45 QR from ch. 58 dismissed
**KWQB-DT 29 PG<1275m,
35-12-48/106-27-00**

Thoreau

K28HM 28 NS 1.283kw,
 35-27-59/108-14-25 //
 KRQE-13 CBS

Zuni

K39FY 39 FC, sold to Emmis TV

Nevada:

Dayton
 Eureka
 Pahump
 Reno
Tonopah

K13PD 43 QR to ch. 43 dismissed
 K68CS 17 QR from ch. 68
 K62FX 62 NS 1kw, 36-12-25/115-57-35
 KNVV-LP 41 CC from KNRV-LP
**KBMO-TV 9 NW, 5.01kw/448m,
38-03-05/117-13-30. //
KVBC-3 Las Vegas, NBC.**

New York:**Buffalo**

Easton
 Nyack
Schenectady

WGRZ-DT 33 NS rescinded
 WV BX-LP 15 QG from ch. 39
 WRNN-LP 20 QR from ch. 57, 2.5kw
**WEWB-TV 45 PR>413m,
42-37-31/74-00-38**

Utica

Watertown

WKTV-DT 29 PR>1000kw dismissed
 W23BP 22 QR from ch. 23 dismissed

Ohio:**Athens****Cleveland**

WOUB-DT 27 PG>250kw
**WKYC-DT 2 PG>20kw,
41-23-00/81-41-21 (or 8kw,
no change in TL?)**

Cleveland**Columbus**

WEWS-DT 15 PC>870kw
**WTTE 28 PG<1440kw/267m,
39-56-14/83-01-16**

Toledo

Youngstown

WNWO-DT 49 PR<59kw/409m
 W52CX 39 QR from ch. 39 dismissed

Oregon:**Bend****Grants Pass**

Lincoln City

Newberg**Lubbock****Lubbock****Mesquite****Quannah**

KABH-CA 15 PG>84kw
**KBLN 30 NW, 9.77kw/654m,
42-22-56/123-16-29**
 K05KY 5 NS, 2.25kw,
 44-45-23/124-02-49
 KOXO-CA 51 PG>150kw
 KJTV-CA 32 CC from K32FF
 KXTQ-LP 46 PG>106kw
 KATA-LP 50 QG from ch. 60, 50kw,
 32-32-36/96-57-33
 K49FE 49 QC from ch. 69, 5.86kw,
 34-38-20/99-21-19, CL to
 Altus, OK

Pennsylvania:**Freedom
Greensburg**

Greensburg
 Johnstown
 Kittanning

**Pennsylvania:
Philadelphia**

Pittsburgh
 Pittsburgh
 Uniontown
 Willow Grove

**Rhode Island:
Block Island****South Carolina:**

Columbia

South Dakota:

Aberdeen

Buffalo

Edgemont

Faith

Rapid City**Rapid City****Tennessee:****Memphis**

Nashville

Nashville

Texas:

Alvin

Amarillo

Amarillo

Amarillo

Arlington

Austin

Bracketville

Conroe**El Paso****Garland**

Goodlett

Goodlett

Greenville

Livingston

San Antonio

Stamford

Victoria

Water Valley

K19EI 19 PG>1.1kw, already on
 KORX-CA 16 PG>36kw
 KWBP-LP 5 QR from ch. 4, 3kw,
 45-30-58/122-43-59; CL to
 Portland
 K14KW 14 NS 100w,44-58-58/123-21-01
 K06NI 6 NS 250w,45-42-43/121-06-58
 K05KX 5 NS 650w,45-27-23/123-50-34

WWBP-LP 25 CC from W25BK
**WPCB-DT 50 NS 340kw/300m,
40-23-34/79-46-54**

WQVC-LP 28 CC from W28AW
 WBYD-LP 35 CC from WONT-LP
 WBOA-LP 64 CC from W64BL

**WYBE-DT 34 XG 40-02-35/75-14-15,
342m**

WIIC-LP 29 CC from W29AV
 WPTG-LP 69 CC from W69CC
 WWAT-CA 45 CC from W45AU
 WELL-LP 15 QG from ch. 8, 18kw,
 40-02-21/75-14-12

**WPXQ 17 QR from ch. 69,
4000kw/220m,
41-34-22/71-37-55**

W21CA 21 PG>9.5kw,
 34-03-23/80-58-50

K53HE 53 NS*, 45-31-55/98-47-05
 K59HA 59 NS*, 45-30-47/103-38-38
 K59HD 59 NS*, 43-18-15/103-49-20
 K53GW 53 NS*, 45-03-14/102-15-49
KOTA-TV 3 PC<186m
KBHE-DT 26 PR>192m

WMC-DT 52 PR<394kw/338m
 W52CT 42 QR from ch. 52, 25kw
**WNAB 58 PR>434m,
36-15-50/86-47-39**

KFTH 67 PR<4800kw
 K20DM 25 QC from ch. 20
 KTMO-LP 36 CC from K36DV
 K41GY 41 FC - sold to KBCA-31,
 Univision
**KPXD 42 QR from ch. 68,
1750kw/541m**

KDAS-CA 31 CC from K31FM
 new-LP 56 AF dismissed
**KPXB-DT 5 PR>9.5kw/555m,
29-34-15/95-30-37**

KVIA-DT 17 PG<850kw
**KUVN 23 PG>544m,
32-35-19/96-58-05**

K40FL 40 QC from ch. 65, 0.58kw,
 34-38-20/99-21-19, CL to
 Altus, OK
 K45FH 45 QC from ch. 67, 5.86kw,
 34-38-20/99-21-19, CL to
 Altus, OK

KTAQ 47 PC>4680kw/202m
 KCTL-LP 25 QC from ch. 66, 10.4kw

K10OR 10 QG from K02MX; 3kw
 KIDT-LP 44 QR from ch. 43 dismissed
**new 31 AF reinstated;
215kw/148m,
28-46-39/96-57-43,
KTXN-FM tower**

K52HO 52 NS*, 31-35-57/100-50-43

Wolfforth	KUPT	22	NW, 70.8kw/228m, 33-30-08/101-52-20, UPN	Riverton K28HL	28	QG from K08GO; 1.19kw, 43-27-00/108-14-00
Utah:				Sheridan	KSGW-DT 13	NS 50kw/372m
Dutchland	K17FW	17	NS 130w,40-57-34/109-24-58			
Ogden	KPNZ-DT 24		DTV app on this channel dismissed. (trying for channel 49 for DTV)			
Virginia:						
Harrisonburg	WDOB-LP	58	CC from W58DF			
Lynchburg	WTLU-CA	50	QG from ch. 19, 41.4kw (or 40.6) 37-11-51/79-21-07			
Virginia:				U.S. Possessions:		
Norfolk	WPXV	49	PC>5000kw/376m	Guam:		
Richmond	WWBT-DT 54		NW, 860kw/211m	Agana	KGTF-DT 5	NS 3.2kw/60m
				Tamuning	KTGM-DT 17	NS 2kw/-16m
Washington:				U.S. Virgin Islands:		
Camas	KOXI-LP	19	PR>150kw, 45-41-30/122-21-40	Charlotte Amalie	WBIV-LP 38	CC from W38BM
Kennewick	KVVK-CA	15	PG>81.9kw	Christiansted	WCVI-TV 27	PR<26.67kw/134m, 17-44-40/64-43-40
Walla Walla	K46FL	46	PR>1.75kw			
Wenatchee	K30AJ	24	QC from ch. 30, 0.57kw	Canada:		
Wisconsin:				Quebec:		
Eau Claire	WQOW-TV 18		NW, 38kw/226m, 44-57-39/91-40-05 (aux. backup)	Quebec	CBVT 11	PR<132kw, 46-47-04/71-15-54
Madison	WHA-TV 21		PC<870kw	Ste.-Famile	new-LP 55	AF 4.4kw, //CBVT 11
West Virginia:				Mexico:		
Martinsburg	WWPX 12		QR from ch. 60, 45kw/314m	Tamaulipas:		
				Nuevo Laredo	XHFTX 57	FC to Televisa independent
				Reynosa	XHFOX 17	FC to XEW-2
Wyoming:						

Forum & Other Stuff

Pax had earlier asked the FCC to allow them to swap the DTV and analog assignments of their stations. Now, it looks like they hope to force the issue - they have filed for analog permits on their digital channels in five cities. Note also that WCTX-59 and WEDY-65 in New Haven, Connecticut have filed to swap DTV channels - WEDY-DT ending up on channel 6, and WCTX-DT on 39. KPNZ-24 in Utah is one of those stations that got its NTSC permit relatively late in the game, and was not assigned a second channel. They filed for both DTV and NTSC permits on the same channel, apparently planning to simply pull the plug on analog at some point and switch to 100% DTV. That plan seems to have fallen by the wayside; they've asked the Commission to dismiss their channel 24 DTV application. KPNZ has an application on file to assign channel 49 for DTV operation in Ogden. Finally, note the application for a new full-power NTSC operation on channel 31 in Victoria, Texas, and a new full-power channel 9 on the air in Nevada.

The Michigan LPTVs are at it again. If you live in Wisconsin, Illinois, Indiana, Ohio, or Pennsylvania, you need to read the Michigan section - you may have a new local coming your way. A few more of the 999-watt LPTVs have also appeared.

If KPHZ-DT's application (Holbrook, Arizona) is granted, it would be the highest broadcast antenna in the United States. 2417m HAAT is equivalent to 7,928 feet - higher than the Wailuku, Hawaii stations that currently hold this distinction.

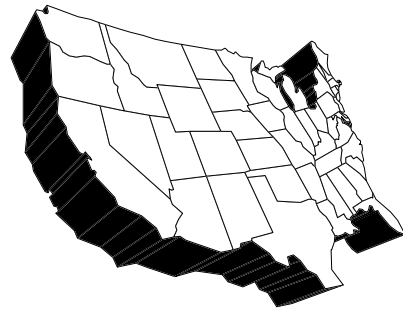
CBVT-11 plans to move to the CBC-FM site. This move will consolidate equipment, but will also leave a coverage gap northeast of the city. A new transmitter on channel 55 is expected to fill this gap. Further east in Canada, CBYT-5 and its relayers are now a 100% simulcast of CBNT St. John's.

Note that two more Fox affiliates have jumped ship. XHFTX and XHFOX in northeast Mexico had operated as English-language Fox affiliates for the Rio Grande Valley and Laredo respectively. Not anymore.

WKFT-40 Fayetteville, NC is temporarily off the air. Their tower was struck by an airplane, and collapsed. Some news reports had it that WRAL-5 was also affected. In fact, WRAL owns the WKFT tower, but the WRAL antenna is elsewhere. Skip season approaches. Good luck!

WESTERN TV DX

VICTOR FRANK
12450 SKYLINE BLVD.
WOODSIDE, CA 94062-4554
frank@horizon.sri.com



William Eckberg, 1032 Sterling Rd. Dixon, IL 61021

January 2002 CST

4 Es 1915 WDIQ 3 AL 737
2000 KRGV 5 TN 1189
2030 WPBT 2 FL 1229

February 2002

6 tr 0125 K16EL 16 IA Davenport 61
7 tr 2220 KHOG 29 AR 463
2240 KWBS 34 AR 429
2300 KWCV 33 KS 498
KTBO 14 OK 612
2310 KOCB 34 OK 612
8 tr 0320 KGEB 53 OK 519

February 7 saw simultaneous 500-600 mile snow free tropo to Wichita and Oklahoma City to the SW and 375 mile tropo to Chillicothe OH to the SE. No tropo was south of snow free Cincinnati and Louisville. No tropo was to the west, east, or north of my QTH. The area of intense tropo was the shape of a tilted triangle. A half hour either side of 2245 presented the opportunity for 800 mile tropo across the base of the triangle from Oklahoma City to southern OH. Dxers in these two areas and the east and west fringes of the triangle might have made some interesting loggings. I was the north and center of the area of activity. I've never seen such a configuration of winter tropo.

Tropo intensified during the day. The Chicago Tribune stated a temperature inversion occurred. Warm air over bare ground to the west overrode cold snowpack in the Midwest. A long horizontal front also ran from NYC to Billings.

Dennis Park Smith, 3605 San Remo Drive, Santa Barbara, CA 93105-2523 (805)687-7803

This report is for February 2002. While southern-California coastal tropo was generally poor to nonexistent this month (cold and unsettled)(to San Diego/Tijuana TV-FM 250mi/320km), there were distractions to keep from following conditions very well, so there is not as much detail as I would have preferred.

Jan 27-Feb 2 am: None (Jan 27 rain, much colder)
Feb 2 eve-3 am: Poor
Feb 3 eve: Very poor
Feb 4: None
Feb 5 - 7 aft: Poor +
Feb 7 eve - 11?: None (Feb 7 windy)
Feb 12?-16: Variably poor
Feb 17-20: None (Feb 17 a.m. rain)
Feb 21 am: Poor +
Feb 21 eve-22 am: None
Feb 22 eve: Fair (some warming)
Feb 23-25 am: None (Feb. 23-24 windy)
Feb 25 eve-27 am: Poor
Feb 27 eve-28 am: Fair
Feb 28 eve: Poor
Mar 1 am: None (not yet sure why ...)

Best of DX to all. Dennis

John Ebeling, 9209 Vincent Ave So, Bloomington, MN 55431

Again time to report my TES reception from Barbados. As usual, no IDs were nailed, as the TES is always very distorted by nature. I do not stay in the room at night, but go out at various times & check the TV when I can. This year, a different set was in the room, a Toshiba model CF19H25, built in Mexico in 11/98. Times listed are Barbados time: one hour ahead of E.S.T.

February 2002

1 23:00: Weak TES on ch. 2
2 18:30: Heavy CCI Ch 2-6 (FM good)
(CCI=co-channel interference)
3 22:25 Heavy CCI 2-6 (FM all freqs)
4 19:20 Nil
20:00 CCI 2-4 (Spanish Audio on 2)
21:15 CCI 2-6
5 19:30 Weak 2 CCI
21:30 Still weak 2 CCI
6 19:30 Heavy CCI on 2-6
23:15 Still Heavy 2-6 (Spanish audio on 2) FM good
7 19:30 Dead conditions
20:13 Ch 2 CCI
20:40 CCI 2-6 (Color burst noted on 2)
FM clear
22:30 Still CCI 2-6

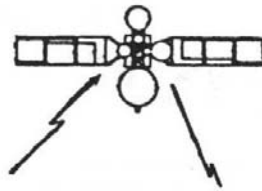
8 22:00	CCI 2-6		
	23:10	CCI 2-6	
	23:35	CCI 2-4	FM good-all Spanish
9 22:50	CCI 2-6	FM very fadey-good	
		when in	
	23:50	CCI 2-4	
10 21:30	Wild CCI 2-6	FM strong to 107.7	
	23:10	Still wild CCI	
11 19:00	Dead conditions		
	19:50	Ch 2	
	23:00	CCI 2-6	FM on most freq's & fairly clear
12 18:15	Dead		
	20:20	Ch 2-4 with CCI	
13 20:00	CCI 2-6	FM all freq's	
	23:30	Still 2-6	
			14 23:00 CCI 2-6 FM good-all Spanish
			24:00 Ch 2 only

That's it from the south coast of Barbados. Too bad I don't know Spanish, as it might have helped.

Regards from
John Ebeling

Editor: could we talk you into taking a recorder with you and burning some tapes on your next ventures?

Satellite News



George W. Jensen
4604 Anntana Ave.
Baltimore, MD 21206-4220
SCISATMAN@AOL.COM

APRIL 2002

This month, and for the next month or two - we take a look at the immense Anik F1. Put into service in 2001 with 36C and 48 KuBand high power transponders - with some specifically directed to Latin and South America.

C Band powers are 20 watts and KuBand is 50 watts - all located at 107.3 West. Generally the C-Band transponders are used primarily for feeds with the exception of 19 - MPEG2 4080H/28346 with Metro Media and TeleQuebec and 24 MPEG2 4160V/28346 with CTV Red, Green and Blue Feeds, the Weather Network and CBC Newsworld International. Now we look at the immense Ku-Band - All of this is Digicipher (4DTV)

200 - Viewers Choice Pay-Per-View Promos, 201 through 236 - View's Choice Pay-Per-View, 238 - Canucks Pay-Per-View Games, 260 - Canal Indigo French Pay-Per-View Preview Channel, 261 through 274 - Canal Indigo Pay-Per-View Channels, 290 through 293 - HDTV East and West Channels. 299 - Star Choice Information. 300 - CBHT - Ch3 - Halifax - CBC. 301 - CBMT - Ch6 - Montreal CBC, 302 - CBLT Ch 5 - Toronto CBC, 305 - CBKT Ch 9 - Regina CBC, 306 - CBRT Ch9 - Calgary CBC, 307 - CBXT CH5 - Edmonton CBC, 308 - CBC West, 310 - CJON Ch6 - St. Johns NTV, 311 - CJOH Ch 13 Ottawa CTV, 312 - CFCF Ch 12 Montreal CTV, 313 - CFTO Ch 9 Toronto CTV, 315 - CKCK Ch 2 Regina CTV, 316 - CKY Ch7 - Winnipeg CTV, 317 Ch 4 Calgary - CTV, 318 Ch CFRN Ch 3 Edmonton CTV, 321 - BCTV Vancouver, BC CTV, 330 - CIHF Ch 8 St. Johns Global, 331 CIII Ch 6 Toronto - Global, 335 CKND Ch 9 Winnipeg - Global, 336 CKVU Ch 10 Vancouver - Global, 338 - Calgary - Global, 339 - Edmonton, Global, 340 - Atlantic Satellite Network, 341 CJCH Ch5 ATV Halifax, 342 CHRO Ch 5 Pembroke, 343 CFMT Ch47 Toronto, 344 CITY Ch 57 Toronto, 345 CHCH Ch 11 TV Ontario Hamilton, 346 CKVR Ch3 Barrie, 347 CJAL Ch 9 A-Channel Edmonton, CHEX Ch 12 Peterborough, 349 CFPL Ch 10 London, 350 - Aboriginal Peoples Television Network, 351 Access Alberta, 352 Saskatchewan Commercial Network, 353 CICA Ch6 Toronto - TV Ontario, 354 Knowledge TV, 355 C T S, 357 Miracle Channel, 358 CHCH Ch 10 Vancouver Island, 359 CKVU Vancouver.

I'll stop here and pick up next month with those US network affiliates that are being carried as well as other goodies. While all of these services are encrypted, some are occasionally in the clear if you take time to look for them. HAPPY EASTER AND HAPPY PASSOVER.

Eastern TV-DX

Matthew C. Sittel
15013 Eureux Circle
Bellevue, NE 68123
mcsittel@cox.net

April 2002

May, 2002 column deadline: Apr. 12

Eastern TV-DX is for reporters from the following states: AL, CT, DE, FL, GA, IN, KY, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, VT and WV, plus Washington, DC. Also for reporters from the following Canadian provinces: NB, NF, NS, ON, PEI and PQ. Overseas reports are also welcome!

Jim Ayers, 2497 Wind Forest Court, Norcross, GA 30071

jimayers@raider.net

2/19 tr

0800 WBPI-LP-49 GA Augusta 135

Roy Barstow, P.O. Box 2488, Teaticket, MA 02536

2/20 tr

0100 15/27/33/43/49 eastern Virginia
WNLO-45 VA Virginia Beach

0200 W14CM-14 DE Dover, from ch. 68

2/24 tr

2300 WPXU-35 NC Jacksonville
WUNM-19 NC Jacksonville
WUNJ-39 NC Wilmington 660

2330 WVEC-13 VA Hampton
WNCT-9 NC Greenville

2/25 tr

0000 15/27/33/43/49 eastern Virginia
0840 WCTI-12 NC New Bern
WTVB-11 NC Durham
WAVY-10 VA Portsmouth
WFXI-8 NC Morehead City
WYDO-14 NC Greenville
WNCN-17 NC Goldsboro
WUNP-36 NC Roanoke Rapids
WITN-7 NC Washington
WRAY-30 NC Wilson

WHMC-23 SC Conway 702

WJPM-33 SC Florence 708

WUNU-31 NC Lumberton

0905 WRAZ-50 NC Raleigh

WSFX-26 NC Wilmington

WLFL-22 NC Durham

WEPX-38 NC Greenville

WUNJ-39 NC Wilmington

0945 WTAT-24 SC Charleston 779

0958 WJWJ-16 SC Beaufort 825

ID on ICOM

W18BS-18 VA Hampton

WPDE-15t SC Florence

1020 WJHJ-19 VA Williamsburg

WJHJ-39 VA Virginia Beach

WKFT-40 NC Fayetteville 616

WNCT-9 NC Greenville

W52AB-52 VA Craddockville

1130 W56CS-56 VA Portsmouth

1945 unID-39 NJN PBS, who?

2000 WCVE-23 VA Richmond

What a wimpy winter. Had snow 2 times, next day it was gone. Many golf courses have stayed open all winter. Because of the warmer weather, ice not thick enough to skate on. First time this has happened that I can remember. But I can't complain for DX in every time it gets up to 50 degrees. WTAT-24 Charleston, SC in twice this past month, rare indeed.

Saul Chernos, 57 Berkeley St., Toronto, ON M5A 2W5 Canada (416) 364-0725 schernos@sympatico.ca

Key to loggings: (BR)-Burnt River, (TO)-Toronto

8/13/2001 Es (BR)

2245 CJCB-4 NS Sydney, ATV/CTV news

2325 unID-2 CTV

Mike Bullard Show 0005-0105 ET

2325 unID-2 CBC French

8/14 Es (BR)

0835 WDIQ-2 AL Dozier, APT

0850 WBRZ-2 LA Baton Rouge, ABC

0853 WWL-4 LA New Orleans

8/15 Es (BR)

0929 KNOP-2 NE North Platte

8/21 Es (BR)

2200 WESH-2 FL Daytona Beach

2234 KARK-4 AR Little Rock

KARK News 4 promo

2259 KDFW-4 TX Dallas Fox 4 News
promo

2300 KJRH-2 OK Tulsa

8/22 Es (BR)

2313 KGAN-2 IA Cedar Rapids, nx

8/23 Es (BR)

2059 KNOP-2 NE North Platte, NBC

2237 KAMR-4 TX Amarillo, NBC

2250 KACV-2 TX Amarillo, PBS

www.kacvtv.org, 800-999-9243

8/24 Es (BR)

1956 WDIQ-2 AL Dozier, APT

9/3 tr (TO-Snowball)

0119	WDCP-35	MI	Bad Axe	0615	CBEFT-54	ON	Windsor, SRC TP
0120	CKCO3-42	ON	Sarnia, CTV	0620	WINM-63	IN	Angola, TCT // 49
0123	WFUM-28	MI	Flint	0630	WLLA-64	MI	Kalamazoo
0130	WDWB-20	MI	Detroit, WB20	0631	WLAJ-53	MI	Lansing, ABC 53
0131	WVNY-22	VT	Burlington, ABC 22	0635	WKAR-23	MI	East Lansing WKAR MSU TP
0136	unID-40		LivingFaith Television	0640	WOKZ-LP-38	MI	Kalamazoo 8 logo atop wx map in UR
0137	WZPX-43	MI	Battle Creek, TP	0642	WUPW-36	OH	Toledo, Fox Kids
0144	CHCH2-51	ON	London	0643	CICO32-32	ON	Windsor, TVO
0245	WEYI-25	MI	Saginaw	0650	WSBT-22	IN	South Bendwsbt.co
0258	WFQX-33	MI	Cadillac, Fox 33	0654	WNWO-24	OH	Toledo, NBC 24
0300	WHMB-40	IN	Indianapolis	0656	WADL-38	MI	Mount Clemens
0512	CHLF1-25	ON	Sudbury, tfo	0658	WTLJ-54	MI	Muskegon
0515	CHOT-40	PQ	Hull, TVA schedule	0755	CBLFT10-48	ON	Chatham, SRC TP
0525	WOTV-41	MI	Battle Creek	0811	WOTV-41	MI	Battle Creek, ABC 9/7 tr (TO-Scarborough Bluffs)
0529	unID-15	ACN	shopping//23 GrRap.	0540	WETM-18	NY	Elmira, NBC
	9/6 tr (TO-Snowball)			0548	WENY-36	NY	Elmira, ABC
0150	WXMI-17	MI	Grand Rapids, Fox 17	0557	WITF-33	PA	Harrisburg, PBS
0200	WVPX-23	OH	Akron	0559	WDCA-20	DC	Washington, UPN 2
0229	WJBK-2	MI	Detroit, Fox 2	0656	WYTV-33	OH	Youngstown News Channel 33
0230	CIII4-4	ON	OwenSound, Global	0701	WPCB-40	PA	Greensburg
0335	CKNC-9	ON	Sudbury MCTV blank screen TV	0705	WPMT-43	PA	York, Fox 43 10/3 tr (TO-Downtown)
0336	CKNY-10	ON	North Bay	0830	WGTE-30	OH	Toledo, PBS
0337	CBLFT6-12	ON	Elliot Lake SRC Ottawa bars TP	0831	CICO59-59	ON	Sarnia, TVO
0345	CICO93-42	ON	McArthurs Mills	0832	WWJ-62	MI	Detroit, best ever 11/18 tr (Blackstock, ON)
0346	CHCH4-41	ON	Sudbury, //67	0030	WADL-38	MI	Detroit, Fox 38
0348	CICO19-19	ON	Sudbury Two TVO stns. (one is Toronto)	0030	WGTE-30	OH	Toledo
0603	WFQX-33	MI	Cadillac, Fox 33	0045	CBLN2-34	ON	Sarnia, CBC hockey 11/18 tr (TO-Downtown)
0604	WSMH-66	MI	Flint, Fox 66	1120	CBLN3-64	ON	Chatham, CBC nx
0605	CBLFT17-68	ON	Sarnia, SRC TP	1122	CICO59-59	ON	Chatham, TVO
0607	WTVS-56	MI	Detroit Public TV	1130	WFMJ-21	OH	Youngstown, solid 12/12 tr (TO-Snowball)
0609	WAQP-49	MI	Saginaw, TCT Today	0209	WXMI-17	MI	Grand Rapids, Fox 17
0610	WSYM-47	MI	Lansing, Fox 47				
0612	CBLN2-34	ON	Sarnia, English CBC				

More Q & A

Q. I am perplexed. I use a CM 4228A 8 bay UHF antenna for distant UHF reception coupled to a 0071 DSB preamp through a ch. 21 trap (local DTV station). Cable is heavy duty RG-6. In the past few weeks ch. 45 has remained consistently poor while the other Dayton UHFs have been at least fair in quality. Reception of closer UHF stations (e.g., 26 Springfield, 53 Chillicothe, 31, the 34 translator in Newark, OH) seems unchanged. Best reception distant UHF here is in the warm months, but this deterioration with ch. 45 is worse than usual for the cold months. I have checked antenna continuity to all elements. All antenna and cable connections check OK to continuity. There is DC output from the power supply of about 12-13 VDC. Power is reaching the preamp as pulling the plug shuts all UHF reception off. The lightning arrestor has 0.0 ohms resistance. I need either further trouble shooting suggestions and/or reassurance from someone in Ohio or nearby Midwest that propagation has indeed been lousy for the past 2-3 months. I am out of ideas. -Perplexed


A. Don't rule out the possibility that WRGT has temporarily reduced power and/or antenna height for DTV tower work.

I note they have an application on file to reduce antenna height by 6 meters (20 feet), and their DTV antenna will be at exactly the same height.

That means that they're putting up either a candelabra (sidearms sticking out either side of the tower with an antenna on each arm) or a broadband antenna to handle both channels. Either way, they have to switch to a temporary side-mounted antenna while doing the work. (either that, or go off the air completely...) Temporary antennas often have lower gain *and* lower power handling capability -- as well as being lower on the tower -- a triple whammy.

Upside is that they should be essentially back to normal once the work is done. --Doug Smith

SOUTHERN FM DX



John Zondlo
4009 Driftwood Circle
Yukon, OK 73099
Jpzondlo@aol.com
Deadline: 10th

For DXers in AL, AZ, AR, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, MO, NV,
NM, NC, OK, SC, TN, TX, UT, VA, WV, Cuba & Mexico

April 2002

Bill Nollman – Dxing from Hilton Gardens Inn, New Orleans LA

Equipment: Yamaha T-85 FM tuner, Radio Shack rabbit ears, Conrad RDS Manager

6/14 Tr

KVOL	105.9	LA	Opelousas, "Sports Animal 1330AM/105.9FM 120"
0700KKHT	106.9	TX	Conroe, "The Point" 325
1010WYCL	107.3	FL	Pensacola, "Cool 107" 185
KOOJ	93.7	LA	New Iberia, "Oldies 93.7" 105
WZNS	96.5	FL	Fort Walton Beach, "Today's Best Music Z-96" 225
KSMB	94.5	LA	Lafayette 120
2115WPAP	92.5	FL	Panama City, "Country Heartlines" syndicated pgm 275
WBZE	98.9	FL	Tallahassee, "The New Star 98" 370
KTFA	92.5	TX	Grove, g 230
WRHK	96.1	AL	Mobile, "96-1 The Rocket" 135
KXGJ	101.7	TX	Bay City, "Pure Country 101.7 FM" 390
KAJN	102.9	LA	Crowley 140
WMXP	103.5	FL	Callaway, "Lite Rock 103.5" 280
WOSM	103.1	MS	Ocean Springs, "The Gospel Giant" 90
KJOJ	103.3	TX	Freeport, "98-5 Houston's Jammin' Hits" 350
KNEK	104.7	LA	Washington, "Magic 104.7" 120
KHCB	105.7	TX	Houston, g 320
KQQK	106.5	TX	Galveston, "Tejano 106.5" 320
KLTW	106.7	LA	Rayne, "Oldies 106.7" 120
KCIL	107.5	LA	Houma, "Today's Best Country" 50
2350WTGE	107.3	LA	Baker, "Old School 107.3" 80
2357KLUB	106.9	TX	Bloomington, "106-9 The Rock" 425

6/15 Tr

0000KRKA	107.9	LA	Erath, "K-Rock, Acadiana's classic rock" 110
WAZA	107.7	MS	Liberty, "Boomer 107.7" 90
0008KLIL	92.1	LA	Moreauville, "Stereo 92 KLIL" 140
KFAD	93.9	LA	Alexandria, "Magic 94" 175
0040KQXY	94.1	TX	Beaumont, "Continuous Hit Music 94.1" 240
0045KTBZ	94.5	TX	Houston, "94.5 The Buzz" 350
KZLG	95.9	LA	Mansura, "Z-95.9" 140
0100KSJY	90.9	LA	Lafayette 120
KRVS	88.7	LA	Lafayette, "Public Radio for Acadianne" 120
KQKI	95.3	LA	Bayou Vista 75
KAYD	97.5	TX	Beaumont 240
0120KZMZ	96.9	LA	Alexandria, "96.9 Rocks" 175
KAPB	97.7	LA	Marksville 145
WDGL	98.1	LA	Baton Rouge, "Eagle 98.1" 70
KKST	98.7	LA	Oakdale, "Star 98.7" 170
WHER	99.3	MS	Heidelberg, "Eagle 99.3" 150
0142WJMI	99.7	MS	Jackson, "99 Jamz" 160
KRRV	100.3	LA	Alexandria, "K-Double-R-V" 175
0200WRTM	100.5	MS	Port Gibson, "Rhythm" 180
KKGB	101.3	LA	Sulphur, "101-Dot-3, The Rock" 200
KBCE	102.3	LA	Boyce, "102 Jamz" 180
KLAA	103.5	LA	Tioga, RDS ID "LA-103.5" 175
0220WMJU	104.3	MS	"Magic 104.3" 115
KKMY	104.5	TX	Orange, "Mix 104.5" 220
KJJB	105.5	LA	Eunice, "Cajun Country 105.5" 145
0240KHFX	105.5	LA	Ball, "105-5 The Fox" 175

KIOC	106.1	TX	Orange, "Big Dog 106" 220
KXOR	106.3	LA	Thibodaux, "Eagle 106.3 KXOR" 45
0250KKHT	106.9	TX	Conroe, "The Point" 325
0300KFMV	107.1	LA	Ferriday, "MissLou's best mix, River 107-1" 150
KVEE	107.5	LA	Lake Arthur, "V107-5" 160
WKJF	92.9	LA	Jennings, "Cajun Country 92-9" 155
0310KKBQ	92.9	TX	Pasadena, "The New 93Q" 340
0320KRTS	92.1	TX	Seabrook, "K-Arts," c 340
KQID	93.1	LA	Alexandria, "Q-93," "All Night Café (syndicated show)" 175
WKZB	93.5	AL	Butler, "B-93 the Buzz" 190
0345WQST	92.5	MS	Forest, RDS ID "WQST – Amer Family" 170
0410WKTF	95.5	MS	Jackson, "95.5 the Beat" 175
0420WUSJ	96.3	MS	Jackson, "US-96.3" 175
WABB	97.5	AL	Mobile 135
WKNL	99.3	GA	Lumpkin, "Hot Country – Kissin' 99.3" 350
WOOF	99.7	AL	Dothan 300
0435KRVV	100.1	LA	Bastrop, "The Beat," telephone 387-BEAT 230
KKGB	101.3	LA	Sulphur, "The Rock" 200
0447WUSW	103.7	MS	Hattiesburg, "US-103" 110
0505WBBN	95.9	MS	Laurel, "B-95" 140



From the Editor

It's DX time! April usually brings a few good openings. When you get one, be sure to let us know what you've heard! See y'all next month!



WTFDA 2002



Time to make your reservation for this year's convention at the Hampton Inn, I-40/Garth Brooks in Yukon, OK, July 26-28. Our special rate is \$55/night. You will need to call the Hampton Inn direct at (405) 350-6400 to make your reservation. Be sure to mention that you'll be there for the WTFDA convention.



What's on tap for the convention? There's an early-bird trip to the Bricktown entertainment district Thursday, July 25. We'll have station tours, a banquet Saturday night at the Interurban Grill, and lots of time to talk and DX.



If you have suggestions for seminars, send them along! And if there is a topic you would like to make a presentation on, please let me know! We're also looking for items to be donated for an auction at the banquet. So far we have one antenna donated. Items could include equipment, station promo material (like coffee cups), or anything else you think a DXer would love to have!



Your resource for FM DXing

There will be a registration form in next month's VUD. In the meantime, be sure to call the Hampton Inn today to reserve your room. For more info on the convention, check out the WTFDA 2002 page at Fmdxweb.com, call me at (405) 354-1530, or write to me at the Southern FM DX address above. Hope to see you at **WTFDA 2002!**

PHOTO-NEWS

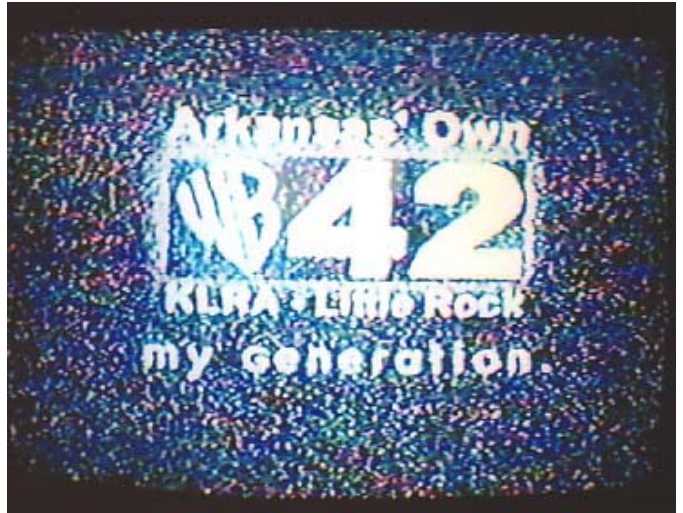
Jeff Kruszka, Editor
5024 S. Braxton Ave.
Baton Rouge, LA 70817
jkruszka@bellsouth.net

April 2002

This month we feature more photos from --- ME! By the way, I'm just about out of photos, so come on gang, get 'em in to me. E-mail, snail mail, it doesn't matter. We print 'em all.



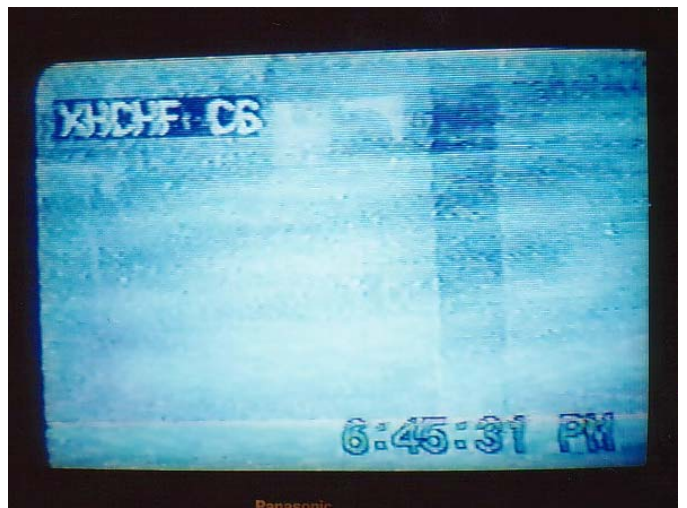
WAKA-8 Selma, AL
280 mi Tr seen 5/21/01
@2223 CT



KLRA-42 Little Rock, AR
300 mi Tr seen 9/20/01
@2359 CT



WHNT-19 Huntsville, AL
400 mi Tr seen 12/11/01
@2200 CT
"local LPTV off"



XHCHF-6 Chetumal, Q. ROO
855 mi Es seen 1/29/02
@1844 CT
"brief opening w/Honduras"

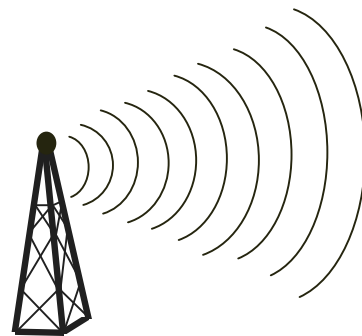
My totals stand at 593. Good DX to all.

73's,

Jeff

Northern FM DX

Northern FM DX



Keith McGinnis
387 Shirley Street, Winthrop, MA 02152
longwave@attbi.net

Saul Chernos - 57 Berkeley St Toronto ON M5A 2W5
schernos@sympatico.ca - 416-364-0725
TO=Toronto BR=Burnt River

Aug 11 MS (BR)

1521 WKTZ 90.9 FL Jacksonville
WKTZ jingle ID
1630 KKOT 93.5 NE Columbus
...Coyote Country...

Aug 13 Tr (BR-East Cliff)

0700 WJRZ 100.1 NJ Manahawkin
J's newest stn is J's favorite oldies

Aug 12 MS (BR)

1143 KMXW 92.3 KS Newton
Mix 92.3, Wichita's hit music station
1421 KNCY 94.7 NE Auburn
KC Royals v. Detroit Tigers bb
1426 KKOT 93.5 NE Columbus
...Coyote Country...

Aug 12 Tr (BR)

1817 WIHC 97.9 MI Newberry
RDS: WIHC, k, Hot Country 97-9

Aug 13 Es (BR)

2335 CJBR1 89.5 PQ Riv du Loup
RDS: SRC--PREM, c

Aug 13 MS (BR)

2300 WOFM 94.7 WI Mosinee
...Oldies 94.7 & 99.9...

Aug 14 Es (BR)

0900 WBSN 89.1 LA New Orleans
Life Sings 89-1 FM
0917 WSCI 89.3 SC Charleston RDS:
WSCI

2147 WLRH 89.3 AL Huntsville
RDS: WLRH
2225 WVAS 90.7 AL Montgomery
RDS: WVAS blues/jazz/r'n'b
2228 WYPL 89.3 TN Memphis
RDS: WYPL-FM g
2244 WAFR 88.3 MS Tupelo
RDS: WAFR AFR g (//89.3 unID)
2306 KDKR 91.3 TX Decatur
RDS: KDKR
2308 KMMY 97.1 OK Muskogee
k
2310 KTSH 99.7 OK Tishomingo
RDS: KTSH c
2311 KHOZ 102.9 AR Harrison
k

Aug 22 Es (BR)

1632 WWOZ 90.7 LA New Orleans
Rock'n'Bowl ad, blues/jazz/r'n'b
1636 WBSN 89.1 LA New Orleans
Life Songs 89-1 g-mx
1637 WQST 92.5 MS Forest
RDS: WQST g-t
1639 KUHF 88.7 TX Houston
713-743-KUHF
1640 KMEZ 102.9 LA Belle Chasse
1640 KWYX 102.7 TX Jasper
1642 WLMG 101.9 LA New Orleans
1643 WSLY 104.9 AL York
Sly 104-9, E-MS/W-AL
1645 WOKK 97.1 MS Meridian
97-OKK k
1646 WEZB 97.1 LA New Orleans
B-97
1647 WALN 89.3 AL Carrollton
AFR g
1649 WRNO 99.5 LA New Orleans
1651 KFNV 107.1 LA Ferriday
1654 WAFR 88.3 MS Tupelo
RDS: WAFR AFR g-mx
1657 WCKW 92.3 LA LaPlace
92.3 The Point r
1659 KAYD 97.5 TX Beaumont
k

Aug 21 Es (BR)

1706 KRVS 88.7 LA Lafayette
FF
1707 KKEG 92.1 AR Fayetteville
1713 WEMX 94.1 LA Kentwood
RDS: WEMX FM
1716 WMSV 91.1 MS Starkville
World Class Radio
1719 KIJN 92.3 TX Farwell
Clovis (NM) & w-TX ads
1720 KMMML 96.9 TX Amarillo
k
1721 WJMI 99.7 MS Jackson
hip-hop
1722 WTYX 94.7 MS Jackson
Arrow 94-7
1723 KDGS 93.9 KS Andover
Wichita's Music Channel, Power 93.9
1725 KTFA 92.5 TX Beaumont
1728 KBAN 91.1 LA DeRidder
1729 KLSA 90.7 LA Alexandria Red
River Radio
1734 KQXY 94.1 TX Beaumont

Aug 24 Es (BR)

2100 KMUW 89.1 KS Wichita
KMUW FM 89 j/b/r'n'b

Sep 3 Tr (TO - Snowball)

0159 CJXY 107.9 ON Hamilton
CJXY is Y-108, RDS: Y 95.3
0159 CING 95.3 ON Burlington
Energy, RDS: Not working yet ?
0100 WKPK 106.7 MI Gaylord
The Peak at 106-dot-7
0112 CJQM 104.3 ON St Ste Marie
Today's Country Q-104
0156 CJET 92.3 ON Smiths Falls
CJET-FM k
0201 WPNE 89.3 WI Green Bay
RDS: WPNE
0202 WTLI 89.3 MI Bear Creek
Tp89.3 The Light B.C.T. MI gr
0221 WYZN 94.5 MI Mackinaw City
The Zone, N'ern MI's Modern Rock
0235 WHAK 99.9 MI Rogers City99-9
The Wave, o
0246 WOOD 105.7 MI Grand Rapids
RDS: EZ 105.7
0257 WKLQ 94.5 MI Holland
KLQ
0258 WLAV 96.9 MI Grand Rapids
0306 WERK 104.9 IN Muncie
Werk Radio 101.7/104.9 o
0311 WMUS 106.9 MI Muskegon
107-MUS After Midnite
0316 WKQH 104.9 WI Marathon
Classic Rock on 104.9 KQH
0318 WAPL 105.7 WI Appleton
0320 WNFM 104.9 WI Reedsburg
Midnight Cowboy Trucking Network

k
0330 WPCK 104.9 WI Kaukauna
ID with WPKR, k
0332 WCMU 89.5 MI Mt Pleasant
j//91.7
0335 WOZZ 93.5 WI New London
CFXJ completely wiped out
0344 WCMB 95.7 MI Oscoda j
//91.7
0350 WKKM 92.1 MI Harrison
k
0400 WBLV 90.3 MI Twin lake
RDS: BLUELAKE
0410 CBON 98.1 ON Sudbury
FF CBC //106.3
0418 CBON5101.7 ON Elliot Lake FF
CBC //106.3
0419 WLEW 102.1 MI Bad Axe
Cruise 102
0423 KLTl 104.1 IA Ames
Lite1041.com
0429 WCSG 91.3 MI Grand Rapids
g Turning Point ends
0442 WCRZ 107.9 MI Flint
Cars 108
0448 WSHW 99.7 IN Frankfort
Shine 99
0640 WGNR 97.9 IN Anderson
g-mx
0658 WLTM 99.7 WI Sturgeon Bay
Rick Dees ... Green Bay's new Magic
99.7
0713 WTCF 100.5 MI Carrollton
r
0723 WGLB 100.1 WI Pt Washington
Retro Rock
0734 WLTR 101.9 MI Traverse City

Sep 5 Tr (TO - Snowball)

0659 WRVM 102.7 WI Suring
g (DVP & 401)
0732 WPNE 89.3 WI Green Bay
RDS: WPNE
0740 WIBA 101.5 WI Madison
Bob & Tom Show
0807 WNFM 104.9 WI Reedsburg k
0818 WHHI 91.3 WI Highland
WI Public Radio, Ideas 91.3, 800-
642-1234
0830 WCHO 105.5 OH Wash Crt Hse
Buckeye Country WCHO, 333-
WCHO/9246
0901 WIHC 97.9 MI Newberry
RDS: WIHC k
0905 WCMW103.9 MI Harbor Sprgs
//91.7 WCML
0906 WCMZ 98.3 ON St Ste. Marie
//91.7 WCML
0910 WGLQ 97.1 MI Escanaba
Magic-97-WGLQ
0915 WOGB 103.1 WI Kaukauna
OGB
0917 WRHN 100.1 WI Rhinelander

0919 WCMM 102.5 MI Gulliver
102.5 The Moose, Moose Country
Classics

0658 WLTM 99.7 WI Sturgeon Bay
Magic 99.7

0923 WBNZ 99.3 MI Frankfort

0925 WQLH 98.5 WI Green Bay

0929 CJTK 95.5 ON Sudbury
g

0938 WJPD 92.3 MI Ishpeming
Want ads live

0940 WPKR 99.5 WI Omro

0945 CBSM 89.5 ON St Ste. Marie
CBC-R-1 //89.7

0952 WMXG 106.3 MI Stephenson
Mix 106

0955 WVCX 98.9 WI Tomah
g Insight for Living

1000 WBNI 89.1 IN Fort Wayne NPR

1020 WJNR 101.5 MI Iron Mountain

Sep 6 Tr (TO - Snowball)

0042 WXKR 94.5 OH Port Clinton
94-5-XKR, r

0055 WMMS 100.7 OH Cleveland
wmms.com (CHIN nulled)

0100 WENZ 107.9 OH Cleveland
Z-107-9 urban (CJXY nulled)

0121 WIOT 104.7 OH Toledo
IOT r

0126 CFGX 99.9 ON Sarnia
The Fox FM o (CKFM nulled)

0138 WPNE 89.3 WI Green Bay
RDS: WPNE c

0216 WSAQ 107.1 MI Port Huron
Q-Country-107 k (CILQ nulled)

0220 WVCC 101.7 PA Linesville
o

0314 CBON21 104.9 ON Gogama
FF CBC //860

0326 CHNO 103.9 ON Sudbury
Z-103 r

0327 WLTM 99.7 WI Sturgeon Bay
The New Magic 99.7 r

0338 WVCX 98.9 WI Tomah
g

0400 WSAE 106.9 MI Spring Arbor

0408 CBON25 97.1 ON Timmins
FF CBC //860

0414 WJIM 97.5 MI Lansing
Oldies 97.5

0450 WWDX 92.1 MI St. Johns
Lansing Rock 92-1 The Edge

0453 WITL 100.7 MI Lansing
After Midnite k (CHIN nulled)

0500 WFUM 91.1 MI Flint
(CJRT nulled)

0515 WLEN 103.9 MI Adrian

0325 WHZZ 101.7 MI Lansing
Z-101.7

0530 WMUK 102.1 MI Kalamazoo
NPR (CFNY nulled)

0540 WRVF 101.5 OH Toledo
Soft Hit Music 101.5 The River

0546 WDTJ 105.9 MI Detroit
105-9 Jamz (CICX nulled)

0740 WKCQ 98.1 MI Saginaw
98.1FM-KCQ Today's Best Country
(CHFI nul)

0744 WAKS 96.5 OH Akron
The New 96.5 Kiss FM (CJBC3
nulled)

Sep 7 Tr (TO - Scarborough Bluffs)

0500 WWKC 104.9 OH Caldwell
Yr stn fr kickn' ctry WWKC Cldw-
Cambridge

0723 WVIA 89.90 PA Scranton

0728 WHUZ 94.3 PA Saegertown
Steve & DC / Louisville Chamber of
Comce

0732 WEMG 104.9 NJ Egg HarborLa
Mega SS

0733 WKSB 102.7 PA Williamsport

0738 WIOV 105.1 PA Ephrata
Today's Best Country the New I-105

0740 WSQA 88.7 NY Hornell
Oneonta ment / NPR Morn Edn

0806 WQED 89.3 PA Pittsburgh

0810 WKNB 104.3 PA Clarendon
Kinzua Country 104

0850 92.1
Your Country Home 92.1, Marsha
Everett

Sep 29 Tr (TO - Oakville)

0905 WVIN 98.3 NY Bath
V-98.3, CBS News, 776-7626

Oct 1 Tr (TO - Oakwood & St. Clair)

1915 PIR 90.7 ON Toronto
Antenna Radio Classic, Greek mx/t,
mono

Oct 3 Tr (TO - Snowball)

0131 CHCQ 100.1 ON Belleville
Q-100 Quinte Country k

Oct 6 MS (Sunderland - for travel log only)

1225 KYBB 102.7 SD Canton
...magical world of Toys &
Treasures...

Oct 6 Tr (BR)

1705 CHCQ 100.1 ON Belleville
CHCQ Q-100 Quinte Country k, 966-
0959x227

Oct 7 MS (BR)

1802 KSJR 90.1 MN Collegeville
Program sponsor in St. Cloud

Oct 27 Tr (TO - QEW/Kipling)

0938 LP 104.9 ON Etobicoke
Ikea Radio, 1475 The Queensway,
new store

Nov 18 Tr (Blackstock ON at Phil Gebhardt's)

0103 WUZZ 104.9 OH Lima
Wuzz-104

0109 WBTU 93.3 IN Kendallville B-93

0123 WCKY 103.7 OH Tiffin
k

Nov 18 Tr (Utica ON with Phil during Leonids
MS)

0225 WDFM 98.1 OH Defiance
Mix 98.1, Clear Channel fundrsr, TV
11 wx

0300 WEEC 100.7 OH Springfield g-mx

0436 WMRN 106.9 OH Marion
Buckeye Country

Nov 18 Tr (TO - Snowball)

0522 WCKY 103.7 OH Tiffin
k

0523 WIOT 104.7 OH Toledo
rp

0525 WRVF 101.5 OH Toledo

0538 WZOO 102.5 OH Edgewood
102-Zoo

0545 WWWM105.5 OH Sylvania

0549 WVIN 98.3 NY Bath
V-98.3

0556 WDOK 102.1 OH Cleveland

0614 WAKS 96.5 OH Akron
Kiss-FM

0625 WXKR 94.5 OH Port Clinton

0632 WQKT 104.5 OH Wooster
Sports Country WQKT

0639 WJZE 97.3 OH Oak Harbor
Fox r

0641 WMRN 106.9 OH Marion
Buckeye Country, Ment. AM 1480
WMRN

0644 WSWR 100.1 OH Shelby
Stn that specializes in 60s, Cruisin'

100

0645 WDFM 98.1 OH Defiance
Mix 98.1, Clear Channel fundrsr, TV
11 wx

0646 WNCI 97.9 OH Columbus
610 WTVN promo

0647 WBNS 97.1 OH Columbus
Buckeyes mentioned

0650 WTWR 98.3 MI Monroe
Tower 98

0652 WWBK 98.3 OH Fredericktown
K-Country 98.3

0653 WQIO 93.7 OH Mount Vernon
93-Q

0700 WLRD 96.9 OH Willard
g-mx

0701 WDVD 96.3 MI Detroit
96.3-DVD rp

0702 WNIR 100.1 OH Kent
Haven Of Rest g (Local to Akron)

0707 WVNO 106.1 OH Mansfield

0712 WQMX 94.9 OH Medina
k

0719 WKFM 96.1 OH Huron
K-96 k

0737 WSAQ 107.1 MI Port Huron
Woodsongs Old Time Radio k

0800 WQED 89.3 PA Pittsburgh

0815 WBZX 99.7 OH Columbus
99-7 The Blitz pr

0923 WYFM102.9 PA Sharon
Y-103

Dec 12 Tr (TO - Snowball)

0101 WWKN 104.9 MI Marshall
Keener 104-9 WWKN Marshall-Battle
Creek r

0106 WBTI 96.9 MI
96.9 WBTI / Also strong Detroit

0240 CIXX 106.9 ON London
Six-X-FM

John Ebeling 9209 Vincent Ave So Bloomington, MN 55431
(Report is from the south coast of Barbados]

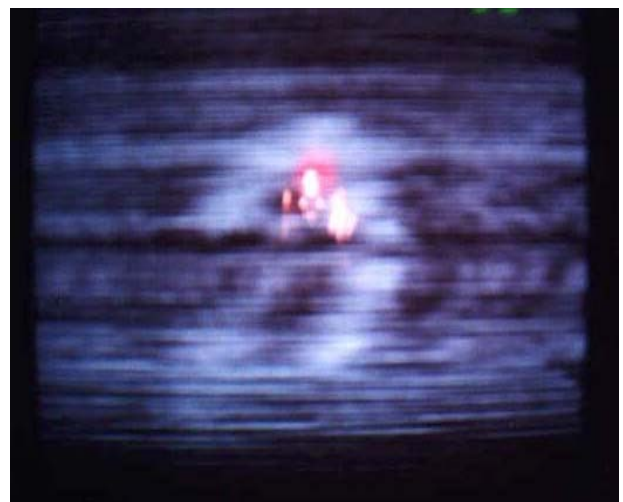
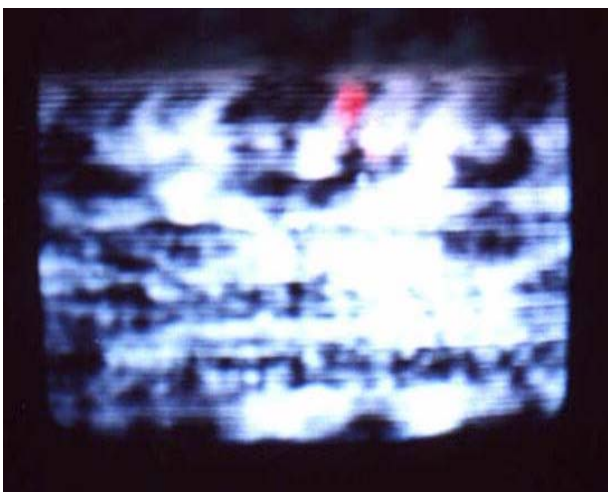
Some FM DX to report from Barbados. I know it's not a usual topic for this column, but DX conditions are poor, to say the least. Anyway, times are Barbados, which is one hour ahead of Eastern standard time. Receiver was a Sangean ATS-818, using the sets' whip antenna. Sometimes the signals were good enough to hear Spanish, but I do not understand the language, so no ID's were possible. TES mode produces a lot of hash: similar to aurora & garbled.

- Feb. 2 @ 8:30 FM on 88.5, 89.5, 90.1, 93.5. (TV ch 2-6)
- Feb. 3 @ 22:25 FM on 88.1, .3, .5, .7, .9, 89.3, 90.1, 90.3, 91.1, .7, 93.7, 94.1, 95.9, 96.1, 98.7, 99.3, .7, 100.1, .7, 103.1, 105.3, 107.7
- Feb. 4 @ 19:20 Nothing but locals (90.7, 92.9, 95.3, 96.9, 98.1, 100.7, 102.1,104.1).
- Feb. 5 @ 19:30 Nothing but locals.
- Feb. 6 @ 19:30 88.5, 89.3, 90.1, 91.3, 92.3 (gospel), 94.1, 96.1, .3, 98.7, 100.3, 01.5, 103.1, 106.1. (Still in @ 23:15).
- Feb. 7 @ 9:30 Dead @ 20:40 Clear FM at 88.3, .5, 89.3, .5, 90.1, 91.1, .3, 92.1, 93.7, 94.1, 96.1, 98.7, 99.3, .7, 100.1, .3, 101.7, 105.3, .5, 106.5, 107.7. (Still in @ 22:30).
- Feb. 8 @ 22:30 FM like on Feb. 7th. All Spanish, but good audio.
- Feb. 9 @ 22:50 FM very fading, but good when in. Audio fairly clear.
- Feb. 10 @ 21:30 Whole FM band strong signals lasting to 23:20.
- Feb. 11 @ 19:00 Dead band. @ 23:30 FM in on most channels-fairly clear audio.
- Feb. 12 @ 18:15 Dead band.
- Feb. 13 @ 20:00 FM all frequencies. Heard Cuba mentioned several times on 101.5. Cuban station??? (Can't find a Cuban freq. list).
- Feb. 14 @ 23:00 FM good on all frequencies- all Spanish.

That's it as far as Barbados is concerned. Some of the reception was very understandable IF I understood Spanish. Oh, well.

MORE *BIZARRE* CH2 F2 PHOTOS

TWO MORE PICS OF THE F2 EVENT DEC 30 AND 31, 2001
 These two photos taken by Mike Bugaj using a hand-held Kodak 35mm camera



What do they show? Who knows, but it was fun!
 See these shots and Photo News in color in the electronic VUD...the eVUD.

Mid-Latitude Sporadic-E – A Review- Part IV

Michael Hawk - November 12, 2001

4.0 SPORADIC-E CLASSIFICATIONS

4.1 Introduction

As was touched on earlier, there have been slight variations in Es characteristics that have led to multiple classifications of Es. These characteristics primarily include the latitude they occur at, height of ionization, and other observed relations.

During the IGY, a standard was developed to further describe these types of Es. Each type of Es has a lower-case letter designator. These designators are rarely seen in today's studies, as the bulk of them deal with just the mid-latitude/temperate zone Es. For this reason, the primary intent of this section is to demonstrate that not even all Es is the same, further complicating the study of Es.

These classifications and their characteristics are described in great detail in E.K. Smith's book, referenced earlier in this text.

4.2 Temperate (Mid-Latitude)

Temperate zone Es is the type that we in the United States, Europe, and other temperate zone latitudes are most familiar with. This is the type of Es that this paper primarily deals with.

Four types of Es exist in the temperate zones. They are Type h (high), c (cusp), l (low) and f (flat). Type h and c are often grouped together into a category called "sequential" Es. It originates at higher E region altitudes (140+km) and as it intensifies, works its way downward to 100 km.

Type f is a classification for nighttime Es, as a requirement is that no "regular" E region can be present. Height of the ionization stay the same with increased ionosonde frequency, producing an ionogram with a flat-line.

Type l is a daytime-only classification.

4.3 Equatorial Es

The equatorial region is defined as the area of the earth within 10 degrees of the *geomagnetic* equator (not the geographic one). Type s (slant) and q (equatorial, or fringe) occur within this region.

Type q is the most common, as has a high correlation with the equatorial electrojet. The correlation is so high that it really isn't even a "sporadic" phenomenon.

Type s can occur at both the auroral and equatorial latitudes.

4.4 Auroral

Type classifications a (auroral), f (flat), r (retardation) and s (slant) occur in this zone.

Type a is commonly called "auroral-E" or "AE" in amateur radio circles. This type of Es has a direct relation with geomagnetic disturbances, and often occurs in conjunction with auroral scatter. The birthplace of type a Es is always within the auroral curtain. Since the auroral curtain can extend well into the mid-latitudes during severe geomagnetic storms, this type of Es can occur within the mid-latitudes. However, MUF's rarely exceed 88 MHz from this Es.

Type f in the auroral latitudes varies very little from type a. Type r's differentiating characteristic is a thicker ionization area.

4.5 Type n Es

For completeness, we must discuss type n Es. Type n was set aside in the IGY system as a catch-all for any Es that didn't fit the above categories.

4.6 Backscatter

Es backscatter is not well understood, and little scientific study of the phenomenon as it applies to us as DX'ers has been done. Backscatter generally propagates signals from 300-1100 km with a characteristic multipath flutter. In some cases, an antenna bearing for reception is offset from the

great-circle bearing to the transmitter.

Unfortunately, backscatter sounds similar to tropospheric scatter, and has been reported to last for 30 seconds to a few minutes, just like tropospheric scatter. Amateurs have reported that backscatter generally only impacts a very small range of frequencies, where tropospheric scatter will often affect a larger range, such as the entire FM band (88-108 MHz). I personally have never heard a backscatter signal that I am aware of, so cannot speak from experience on the subject.

5.0 CLOUD FORMATIONS

5.1 Two Cloud Formations

Many times, Es openings provide higher MUF's than what we'd expect through theoretical calculations. Sometimes, actual MUF's are as much as twice the value theory would indicate. This could perhaps be attributed to a two-cloud formation (not to be confused with double hop). Figure 7 demonstrates a possible scenario.

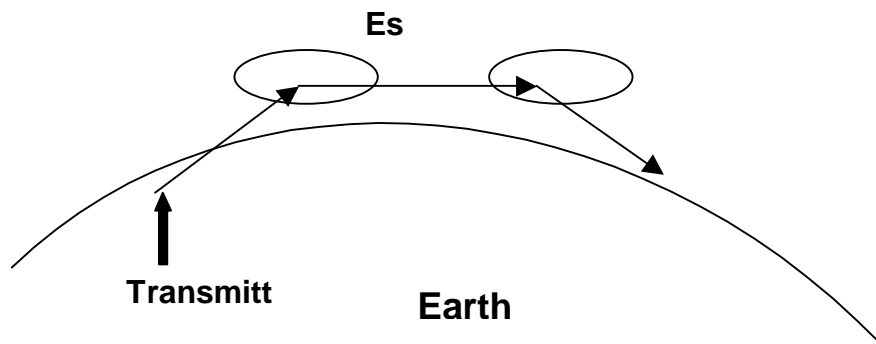


Figure 1 The Proposed Two-Cloud Es Formation

A two-cloud formation for Es would be somewhat analogous to what can happen with trans-equatorial F region propagation. The closer cloud begins the refraction process, and the second cloud finishes the process by refracting the signal back to earth.

It has been proposed that this scenario may exist much more often than thought. As mentioned earlier, it would not take as dense of ionization to propagate higher frequencies. Thus, many receptions in the 1000-1400 mile range could be by the process. Additionally, it could be responsible for those occasional long receptions of 1450 miles or greater.

During intense sporadic-E openings, it is well documented that a widespread elevation of ionization occurs, and a greater number of strong to intense clouds also exist. This leads some credence to the thought.

5.2 Cloud Shapes and Tilts

Es ionization may not necessarily form in a thin sheet parallel to the ground. Some studies have indicated the Es ionization is sometimes tilted, as much as 10°, with respect to the ground. Additionally, J.D. Whitehead's work of 1978 on the shape of Es ionization indicates that odd shapes even form – frequently concave on the underside.

The implication of this is that again, errors can be injected into some of the theoretical modeling of Es, and identification of midpoints. Additionally, ionosonde data can be misleading. Since ionosondes rely on reflection of vertically incident waves, tilted clouds could result in a signal not being reflected, despite ionization being more than adequate.

6.0 CONCLUSIONS

In some respects, many advances have been made over the last 30 years in the study of sporadic-E. We have a better understanding of the composition of the ionosphere and Es ionization itself. Interactions between the ionosphere and weather are beginning to be discovered and understood. The wind-shear theory has withstood years of validation and tests.

However, in most ways practical to DX'ers, little has been accomplished since the characteristics of Es were first documented in the late 1950's. And one question still stands: Would DX'ers lose more than they gain by being able to predict Es?

Comments may be sent to hawk@amfmdx.net.

REFERENCES

- Grayer, G.H., Sporadic E and 50 MHz Transatlantic Propagation During 1987, *Ham Radio*, 10-35, July, 1988
- Mathews, J.D., Sporadic E: current views and recent progress, *Journal of Atmospheric and Solar-Terrestrial Physics*, 60, 413-435, 1998
- Neubeck, Ken, Sporadic-E and aurora propagation, *Worldradio*, 19-28, March 1993
- Pocock, E and Dyer, P.J., Eleven Years of Sporadic E, *QST*, 23-28, March 1992
- Smith, E.K., *Worldwide Occurrence of Sporadic E*, National Bureau of Standards Circular 582, 1957
- Smith, E.K., Temperate zone sporadic-E maps ($f_oE_s > 7$ MHz), *Radio Science*, 13, 571-575, 1978
- Spokes, G.N., Technical Correspondence: Sporadic E Causes, *QST*, April 1993
- Thomas, J.A. and Smith, E.K., A survey of the present knowledge of sporadic-E ionization, *Journal of Atmospheric and Terrestrial Physics*, 13, 295-314, 1959
- Whitehead, J.D., The formation of the sporadic-E layer in the temperate zones, *Journal of Atmospheric and Terrestrial Physics*, 20, 49-58, 1961
- Whitehead, J.D., Difficulty Associated with Wind-Shear Theory of Sporadic E, *Journal of Geophysical Research*, 76, 3127-3135, 1971
- Whitehead, J.D., On the peculiar shape of sporadic-E clouds, *Journal of Atmospheric and Terrestrial Physics*, 40, 1025-1028, 1978
- Whitehead, J.D., Recent work on mid-latitude and equatorial sporadic-E, *Journal of Atmospheric and Terrestrial Physics*, 51, 401-424, 1989
- Wilson, M., Midlatitude Intense Sporadic-E Propagation, *QST*, December 1970 and March 1971

Digital TV...The Beat Goes On

REPRINTED FROM A RECENT DISCUSSION ON THE WTFDA LIST

You may remember a while back Pax suggested channels 60-69 could be cleared faster if they were allowed to move their analog stations up there to their DTV channels - presumably switching directly to digital at transition time without any simultaneous analog/digital operation. It looks like they may be trying to force the issue. Six of Pax's analog stations have applied to move to their DTV assignments. The stations involved are: WPPX-61 Wilmington, Delaware to channel 31, 800kw/374m, WXPX-66 Bradenton, Florida to channel 42, 2240kw/476m, WBPX-68 Boston, Mass. to channel 32, 700kw/292m, WPXQ-69 Block Island, RI to channel 17, 4000kw/200m, KPXD-68 Arlington, Texas to channel 42, 1750kw/541m and WWPX-60 Martinsburg, W.Va. to channel 12, 45kw/314m

Yes, that would make a new analog VHF station on the East Coast. (Doug Smith)

How in the world could they "shoehorn" in this kind of assignment for a new NTSC station? A channel 12 in Martinsburg WV would be hemmed in by the following: WBOY-12 Clarksburg WV, WWBT-12 Richmond VA and WHYI-12 Wilmington DE. Surely they can't be serious in asking for this. (Dave Austin)

This is very interesting. Am I correct that each of these stations could in the long run count as three loggings? For example, KPXD-68 DFW is currently in my log as an analog on 68. Next, it could be an analog on 42. And eventually (providing I get a decoder) it will switch to digital and be logged as a DTV entry.??? (Danny Oglethorpe)

You've posed a very interesting question here and it will come up often in the future. After the transition (probably not in my lifetime) most VHF analog stations that operate their digital stations on UHF will revert back to their original VHF channels. For example, our plan at KTWU-11 is to operate on channel 11 (NTSC) and DTV channel 23 during the transition. At the end of the transition we will turn off NTSC channel 11 and digital channel 23 and operate only on DTV channel 11. Is that three loggings for KTWU? All will be from the same location and two of them on the same channel.

Our reason for going to digital on channel 11 is the lower power cost for VHF. The upper VHF channels should work OK for digital while there is some concern about the viability of DTV on channels 2-6. The chief engineer for KSWK-3 says that they have not made a decision. Also, I have heard the same about WDAF-4 and KCTV-5 in Kansas City. I guess only time will tell if the low band works for DTV.

Perhaps we should keep two logs--one for analog and one for digital. (Dave Pomeroy)

Unfortunately, there will be a lot of these situations where channels are squeezed into too small of a space. Apparently the FCC didn't learn much back in the late 40's when they had to freeze VHF grants, move some VHF channels around and create UHF.

There have already been interference problems and not many DTV stations are on the air yet. The DTV 8 in Milwaukee has caused a lot of problems for viewers of channel 8 from Grand Rapids. In this area the FCC has allowed KMBC-9 in Kansas City to go to DTV channel 7 instead of DTV channel 14. When I lived in KC I could always receive KETV-7 from Omaha and KOAM-7 from Pittsburg, KS. There will be problems for viewers of KETV and KOAM-TV. KOAM was to operate on DTV channel 30, but has now been granted a permit for DTV channel 13. Their channel 7 signal has an overlap with channel 13 in Fayetteville, AR. There will be real problems for KAFT, KRCG and WIBW which circle Pittsburg.

The FCC really doesn't seem to care too much about what happens to over-the-air television and the broadcasters don't seem to care about anything other than cutting their costs. Many viewers will lose out. (Dave Pomeroy)

With the NTSC assignments, the FCC assumes a station will be using the maximum power for its channel and a non-directional antenna. Channel 12 at Martinsburg, WV would be assumed to use 316kw/300m, and could only be assigned if they could run that much power without interfering with WBOY, WWBT, or WHYI. (obviously that's not possible - if it could be done, someone would have successfully petitioned to get channel 12 assigned decades ago!)

To shoehorn in DTV assignments while simultaneously removing 17 channels, they had to change that assumption. If a directional antenna makes it possible to make an assignment without interfering, it will be authorized. And coverage is predicted on the actual power of a station, not the maximum for its class.

WWPX on channel 12 would run 37.9kw in the direction of WHYH. (and WHYH already uses a directional antenna which radiates only 250kw in the direction of WWPX) WWPX would run 41.4kw in the direction of WWBT, and only 2kw in the direction of WBOY. (which runs 263kw non-directional, roughly 50kw less than the class maximum) The minimum separation between VHF stations on the same channel in Zone I (where all four stations are) is 170 miles; WHYH is 155 miles from WWPX; WWBT is 138; and WBOY is 122.

In Zone II (where Kansas and Missouri are) the minimum separation is 190 miles. KMBC-DT 7 is 173 miles from KETV, and 129 miles from KOAM. They null slightly towards KETV (76.7kw compared to an average of 85kw at all azimuths). And there's a deep null - like I'm used to seeing on *AM* stations - towards KOAM. 2.3kw in that direction, compared to 85kw average.

Another NTSC short-spacing has been applied for in my neck of the woods. WNAB-58 has been operating at just about exactly the minimum distance (175 miles) from WFTE-58 Salem, Indiana. They've now applied to move their NTSC antenna to their *DTV* site - which is only 153 miles from WFTE. Again, a directional antenna is involved...

The name of the game these days seems to be qualifying for must-carry. If you can establish a theoretical minimum signal strength at the head-end, then you can install a fiber-optic link to actually get the programming there, and you really don't care that the actual reception at the head-end is noisy & full of interference. Only 20-25% of the audience doesn't have cable - much of that has satellite instead. The ones who have neither either don't watch much TV (and thus aren't worth spending money on) or can't afford cable/satellite. (and thus can't afford much of anything else, and thus aren't worth advertising to)

The additional expenses of running a UHF DTV facility are pretty high. Electricity costs have always been a major part of the budget of a UHF station, and there's been a LOT of research over the years into methods of cutting these costs. There's been some success, but UHF still costs far more than VHF. (and one of the more successful cost-cutting methods, "anode pulsing", only works for analog. It doesn't work for digital.) With the DTV transmitter bringing no significant revenue for some time to come, it really doesn't make much business sense to spend any more on it than necessary.

(Imagine that Ford invented a new type of car. It could be driven safely at 200mph on existing freeways. But it only gets 5mpg if driven slower than 100mph, can only be driven safely faster than 75 if every car on the road is of the new type, and costs \$50,000. Does the state pass a law only permitting new-type cars on the freeways? Where does that leave you if you can't afford \$50,000 for a new car? If the state *doesn't* pass that law.. who will ever buy a new-type car if it costs \$50,000 and gets 5mpg?

That's pretty much what we've run into with DTV. Until/unless everyone buys it, the new technology is mostly just a drain on the industry.)

There *has* been an interesting resurgence in interest in over-the-air reception lately though. It first came up after the Sept. 11 attacks, when the number who complained about not being able to see the Alpine, NJ temporary site surprised a lot of people. And it was emphasized when NBC switched its affiliation to KNTV-11 in the San Francisco market, and realized just how many people were unable to see the station in the northern part of the market. (at the same time, some San Jose print journalists were reminding San Franciscans that the larger city at the other end of the bay had been dealing with this problem for 50 years...) Whether it'll hold, or the industry will join the FCC in saying "let them get cable", is a good question. (Doug Smith)



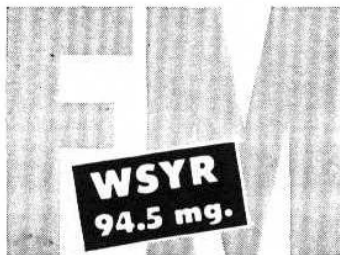
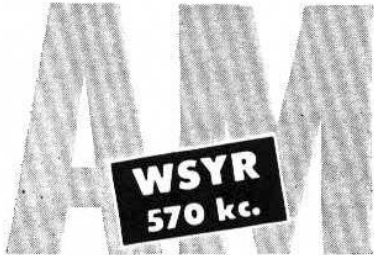
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MORE Q & A STUFF YOU ALWAYS WONDERED ABOUT

Q. Are there any car radios good for FM Dxing?

A. As far as aftermarket car radios goes, my experience is that the Sony CA650X, and Blaupunkt Heidelberg are the best. I have used other aftermarket car stereos from Kenwood, Clarion, Alpine, and factory from GM, Chrysler, and Hyundai. I currently have the Sony in one vehicle and the Blau in the other. Both are excellent with adjacent channels, allowing signals to be heard on either side of 100kw signals from around 5 miles from the tower. The capture on the Blau is better than the Sony, and the "digituner" technology the Blau uses seems to produce a much cleaner signal overall on weak stations. The Sony tends to be more susceptible to overload if around lots of high powered signals, while the Blau will ratchet down sensitivity in the midst of strong signals to compensate. The Sony has the best AM section I've ever used on a car radio. I think the Blau would perform even better if it wasn't in a vehicle with one of those stupid in-glass antennas:(

Q. I was on the roof today checking out my dish. The coax (RG6) is starting to look shabby. It's been up there a few years. Does coax degrade over time?

A. Absolutely! the primary factor seems to be exposure to direct sun. Does signal loss increase? Sure does! There are ample numbers of hams active on VHF who could attest to that, including yours truly. As the outer coating wears, so does the dielectric inside which separates the conductor from the shield.

Q. I believe that all the new DTV stations are on channels 7-69. Last night, a CATV engineer told me that all these new DTV stations would eventually be on UHF, and that 174-216 Mhz will be reallocated to digital land mobile. Can anybody confirm or refute that?

A. WKYC-DT Cleveland and WBBM-DT Chicago are already operating on channels 2 and 3 respectively, and other DTV stations are slated to begin operation on channels 2-6. An early plan called for all DTV to be on UHF channels 14-59. This was later amended to read 7-59, and then again to read 2-51. TV stations will have the option of moving their DTV operations to their current NTSC channels. (so for example, WGN-DT on channel 19 will have the option of moving its DTV operation to channel 9 at the end of transition) Some stations will be *forced* to do so. For example, my local WTVF-DT drew channel 56. 56 will cease to be a TV channel at the end of transition; WTVF-DT will be required to move to their current analog channel, 5. Four of the 60-69 channels will be allocated to public-safety (police, fire) service. The rest will be auctioned. As will channels 52-59. Current FCC plans seem to permit at least 52-59 to be used for any type of emission the auction winners choose. Specifically, plans are being made to allow the auction winners to use the channel 52-59 spectrum for television broadcasting if they choose to do so.

Q. Has anyone on the US west coast ever heard Hawaiian FM stations?

A. The Hawaii-California direction *has* been worked on most VHF/UHF/microwave ham bands. To my knowledge it has not been done on FM or TV broadcast. I would suggest three reasons: 1. Nobody in California is bothering to check. 2. There's a lot more interference on the California end. 3. Amateurs have found the duct to be rather elevation-sensitive, and often doesn't reach low elevations near the sea. Most stations in California are at high elevations, but most stations in Hawaii are at low elevations, below the duct. Sheldon lives at a high elevation on the eastern most island of the chain, but there's only one FM station anywhere near his location, and it's a very low power relay operation on the same frequency as several moderate-powered stations in the Los Angeles area. But while most times, the duct only reaches high elevations on the easternmost island, it *has* been observed at lower levels, and on other islands. At least at times, reception of Honolulu, Wailuku, and/or Hilo stations should be possible.

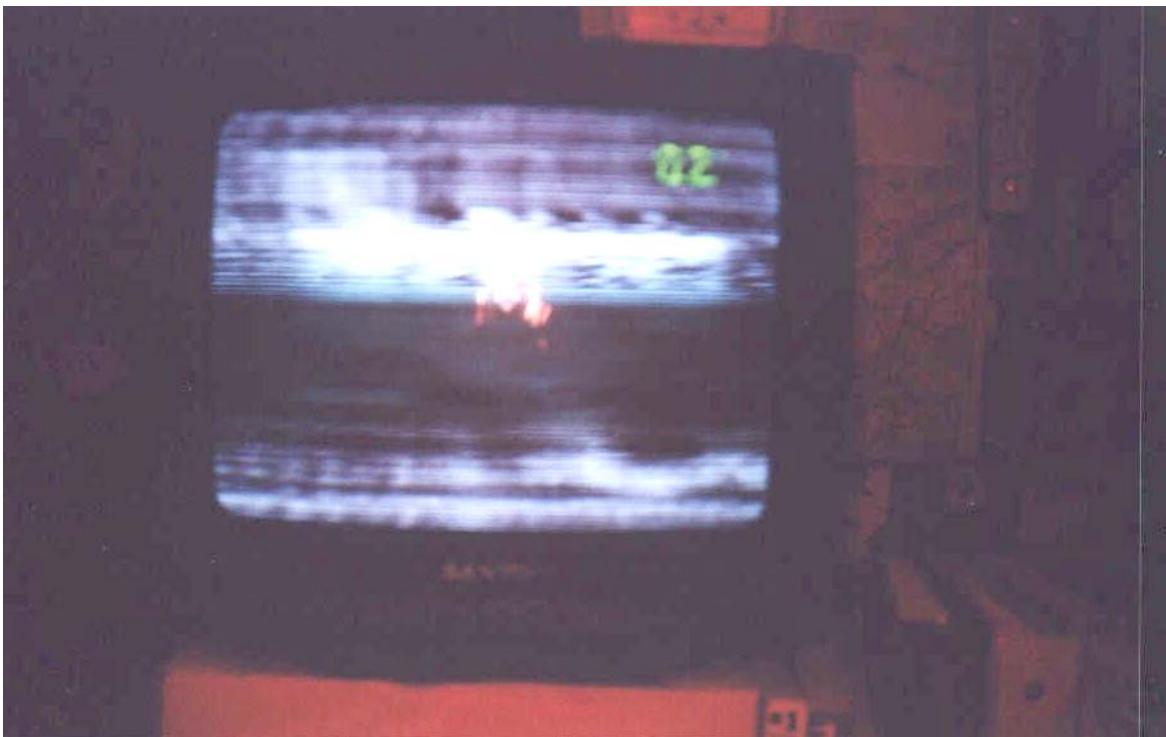
FROM QUESTIONS POSTED ON THE WTFDA LIST.

The Last Page

This page is for you, the eVUD reader. There are over 30 of you. This is your space. As workload permits I will add one additional page for you to share your photos. I don't really care what's on them; you, your town, your house, your antennas, your vegetable garden. Email me a photo and I'll put it here. Send to: mbugaj@snet.net



Kevin Redding's new APS-9 and his R. Shack VU-190 in beautiful Mesa, AZ.



This is my little Sanyo 13" TV sitting on a box of Staples computer paper in my Basement with F2 just wiping out ch2 in Enfield, CT. Suitable for framing.

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