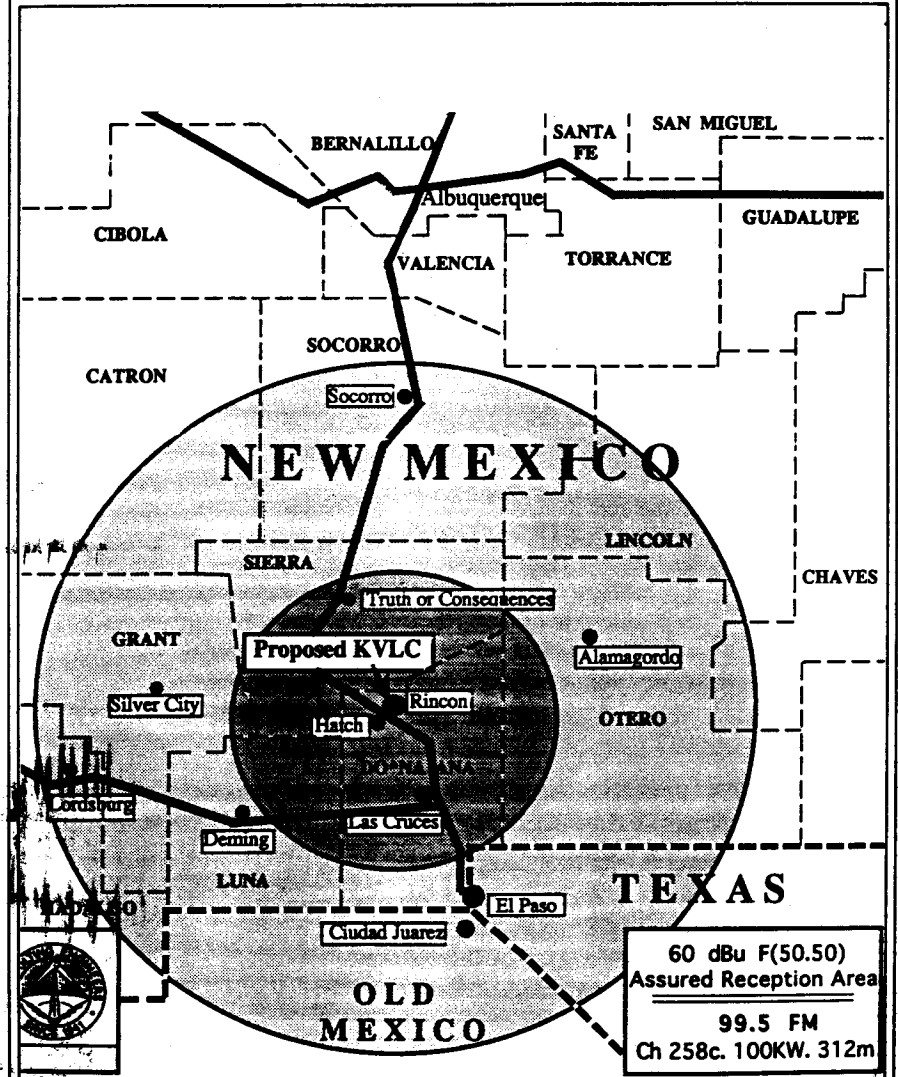


Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

MARCH 1998



To assure complete coverage satellite transmitters will be built across West Texas and Northern New Mexico



WORLDWIDE TV-FM DX ASSOCIATION
PO BOX 501 · SOMERSVILLE, CT 06072



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Worldwide TV-FM DX Association

WORLDWIDE TV-FM DX ASSOCIATION

SERVING THE VHF-UHF DX ENTHUSIAST

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 BROADCAST SIGNALS AT VHF AND UHF. W.T.F.D.A. IS GOVERNED BY A BOARD OF DIRECTORS: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

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FROM THE STAFF:

WTFDA's NEW MAILING ADDRESS: Effective IMMEDIATELY all general club correspondence including applications for membership and renewals should be sent to:

WTFDA
PO Box 501
Somersville, CT
06072

Many thanks to long time member Mike Bugaj for accepting the duty of handling the club's mail.

CONVENTION NEWS: David J. Nieman's proposal for the 1998 WTFDA convention has been enthusiastically accepted. Dave has attended a lot of conventions and knows what it takes to make a good one. The flavor of this get-together will be somewhat like that of the popular gatherings hosted by Bob Seybold on the hilltops near Fredonia (Dunkirk), NY. Although he won't be able to guarantee any E-Skip; his mountaintop location in southwestern New York state has enormous potential to provide convention-goers with some exotic tropospheric treats. A full page of convention information appears elsewhere in this issue. Be sure to take a look at the details and make arrangements to be there Friday July 31 through Sunday August 2.

TV/FM DXers CHAT ON INTERNET: WTFDA's new 'postmaster', Mike Bugaj, is the organizer and promoter of a newly formed DX chat channel in the IRC area of the internet. Several club members have been getting together once or twice a week for over a month to talk about DX, equipment, and themselves. Oregon, Connecticut, California, Louisiana and Tennessee are states represented thus far, and Monterrey, Mexico has checked in too. Each week another name or two pops up, and all tv/fm dxers are welcome to join. Here's the hookup information. First, you'll need to determine if your internet service provider offers access to IRC (most do). If the answer is yes, there's likely an IRC software program provided. In the event you don't have such a program, a visit to this URL will lead you to information and several download points for the popular mIRC shareware: <<http://pebbles.cxi.net/mirc/>>. Unfortunately, this software is only for IBM and IBM clone PCs. Mac programs are available elsewhere. Once you have the IRC software installed and operating, here's where you'll find your dxer pals: *irc.stealth.net* (port 5550) and join channel #wtfidxa. The group meets each Tuesday and Friday at 10 PM Eastern Time. If you have trouble hooking up, e-mail Mike for help at <<ikon@netcom.com>>. Give this new DXer hookup a try. Those who have love it.

FM NEWS

MARCH 1998

editor- GREG CONIGLIO
 90 SLATE CREEK DRIVE - APT. 3
 CHEEKTOWAGA, NEW YORK 14227
 E-MAIL coniglio@localnet.com
 TIP DEADLINE - The 10th

Many of the items listed in this column are taken from the publication:
M Street Journal - P.O. Box 1479 - Madison, TN 37116-1479
 PHONE (615) 865-1525 FAX (615) 865-2598

KEY: &: satellite programming AF: new freq. allocation accepted for filing for a new FM license AFA: American Family Association CC: call change/new calls assigned CL: city of license change granted CO: new xmtr co-ordinates CX: a CP has expired, and is cancelled C1,C2, etc: change in class status DA: directional antenna DE: calls deleted, license returned to FCC FC: station format change	GA: granted amendment to table of FM allocations GE: station was granted extension of a CP GX: granted replacement of expired CP LC: filed for license to cover (for new strn.) MC: multiple-city legal ID NC: no change yet, on a reported pending grant/change. ND: non-directional NO: station is not on the air NS: a new station granted a license OSA: one-step application NW: new station signs on the air PA: proposed amendment to change table of allocations PC>: a power change (increase)	PC<: a power change (decrease) PG>: power change granted (increase) PG<: power change granted (decrease) QC: frequency change for this station QG: frequency change granted RA: station returns to the air RE: station requests extension of a CP RX: station requests re-instatement of an expired CP SG: slogan change or update SI: station is silent XA: dismissed amendment to the table of FM allocations XC: station changes xmtr site XG: station granted a transmitter (xmtr) site change
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UNITED STATES

ALABAMA:

Florence: WQLT107.3 NC to 93 kW, 1017 ft, RX
 Gadsden: *NS 89.9 8.9 kW (h)
 Gadsden: WQEN103.7 OSA to C1, 77 kW, 1105 ft
 XG: 33-49-33 / 86-26-46
 Millbrook: WMCZ 97.1 PG< 1.3 kW, 702 ft
 XG: 32-20-06 / 86-17-16
 Thomaston: *NS 97.7 4 kW, 407 ft.
 Troy: *NS 91.12 kW, 246 ft. (AFA)

ALASKA:

Anchorage: KSKA 91.1 PC> 100 kW, 617 ft, C1
 XC: 61-25-22 / 149-52-20
 Houston: *NS 88.7 NO-RE

ARIZONA:

Arizona City: KBZR106.5 FC to oldies // KRIM 104.3
 Groom Creek: K258AL 99.5 NS-KAWZ 88.9 ID
 Payson: KRIM 104.3 FC to oldies "Oldies 104.3"
 Salome: *** 96.1 GA: add class A
 Show Low: KNAA 90.7 NW, info & classical // KNAU
 Yarnell: *** 99.5 GA: add class A

ARKANSAS:

Brinkley: KQMC102.3 OSA to C2, 50 kW, 492 ft,
 XG: 34-58-10 / 90-51-07
 Dermott: *NS 105.7 3 kW, 328 ft.
 Hamburg: KHMB 99.5 PG> 3.2 kW, 312 ft
 XG: 33-17-19 / 91-52-45
 Harrison: *NS 91.9 AF
 Hope: KHPA 104.9 PC> 6 kW, 328 ft
 XC: 33-43-12 / 93-29-11
 Lakeview: *NS 93.5 25 kW, 328 ft, DA
 Mtn Pine: KZBR 101.9 PC< 3.1 kW, 407 ft
 XC: 34-26-56 / 93-15-59
 Newport: KOKR 96.7 QC from 100.7, PC> 40 kW
 548 ft, XC: 35-29-16 / 91-26-13

CALIFORNIA:

Boonville: *** 96.1 GA: add class A
 Borrego Sps: K220GJ91.9 NS-50w(v): KAWZ 88.9 ID
 Carmel: KBOQ 95.5 adds Super classical (&)
 Escondido: KFSD 92.1 adds Super classical (&)
 Indio: KCMJ 92.7 FC to dance-CHR (P.Springs)
 PC> 6 kW, 328 ft.
 Long Beach: KLAX97.9 PC< 33 kW, 604 ft, DA
 XC: 34-09-49 / 118-11-44
 Marina: KRQC 92.7 FC to rock (Monterey)
 Mendocino: KAKX 89.3 LC
 Merced: KFIE 107.7 FC to reg. Mexican (&)
 Morro Bay: KWWV 99.7 FC to dance-CHR "Kiss 99.7"
 CX CP for 265w, 1532', DA, XC
 Oceanside: KXST 102.1 PC> 14.5 kW, 817 ft.
 Ojai: KKBE 105.5 FC to soft AC (&)
 Riverside: KUCR 88.3 NC to 150w, 1620', RX
 San Fran: KFOG104.5 PG< 7.1 kW, 1506 ft.
 San Jose: KBRG100.3 CX CP for 34 kW, 587 ft.
 San Rafael: KFOG1 104.5 NS- ?? watts
 Sebastopol: KJZY 93.7 PG> 6 kW, 215 ft, DA
 XG: 38-25-07 / 122-40-33
 Shasta Lake City: *NS 107.1 150w, 3549 ft.
 Soledad: KLUE 106.3 PC> 5.1 kW, 344 ft
 XC: 36-16-25 / 121-16-12
 Twentynine Palms: KCDZ 107.7 PC> 6.7 kW, 305', B1

COLORADO:

Calhan: *** 104.7 GA: add class A
 Canon City: KSTY103.9 GA: to 104.5 - A
 Canon City: *NS 89.1 AF
 Gunnison: KEJJ 98.3 CC (ex KKY)
 Kremmling: KRKM106.3 FC to oldies (&)
 Montrose: *NS 88.3 5 kW, 1535 ft.
 Pueblo: KYZX 104.5 GA: to 103.9 - C1: W.Pueblo
 Pueblo: K201CZ88.1 NS: 90w(v): KEAR 106.9 CA
 Silverton: *NS 103.7 AF
 Telluride: KRYD104.9 LC

CONNECTICUT:

Hartford: WJMJ 88.9 PC< 6.2 kW, 607', DA

FLORIDA:

Homestead: WRGP88.1 NO-GE
 Jupiter: WTPX105.5 FC to adult standards (&)
 Key Largo: WMKL 91.7 NO-RE
 Leesburg: W257BF 99.3 NS-55w: WYFB 90.5
 Melbourne: WCFI 106.3 OSA to C3, 11 kW, 489'
 XC: 28-08-15 / 80-42-11
 Ponte Vedra Bch: WBGB 106.5 CC (ex WTLK), FC
 to Classic rock (Jacksonville)
 Santa Rosa Bch: WWAV 102.1 XC: 30-23-10/86-
 17-48
 Satellite Bch: *** 98.5 GA: add class A
 St. Augustine: W207AZ 89.3 NS-WPCS 89.5
 Tallahassee: WGLF104.1 adds John Boy & Billy
 Tice: WAAD 93.7 NO-RE
 Venice: WCTQ 92.1 PC< 22 kW

GEORGIA:

Cordele: *NS 90.3 AF
 Darien: WYNR107.7 NC to 482', RE
 Douglas: WOKA106.7 FC to classic country (&)
 Douglas: WKZZ 92.5 NO-GE
 Elberton: WDDA105.1 CC (NS)
 Gainesville: W300AP 107.9 NS-13w: WYFW 89.5
 Gainesville: WYAY106.7 inc. to 1417 ft.
 XC: 34-07-32 / 83-51-32

Greenville: WKZJ 95.7 FC to urban AC, adds
 Tom Joyner (Columbus)

LaFayette: *** 107.5 XA to add class A
 Lumpkin: *NS 88.5 AF
 Montezuma: *NS 95.1 AF
 Pt. Wentworth: *NS 91.9 6 kW, 180 ft, DA
 Ringgold: WSGC101.9 FC to dance-CHR //
 WKXJ 97.3 TN (Chattanooga)

Sparta: *NS 102.7 NO-RX
 Statesboro: W257BG 99.3 NS-80w: WAFJ 88.3 SC
 Talking Rock: *NS100.1 AF
 Thomaston: WTGA 101.1 FC to country (&)
 Waycross: WBGA102.5 PC< 97 kW, 994 ft
 XC: 31-09-22 / 81-58-19

Winder: WYFW 89.5 PC> 6 kW, 200 ft, DA

IDAHO:

Grangeville: K220GK 91.9 NS-?? WAFR 88.3 MS
 Mtn Home: K267AE101.3 NS-10w: KEFX
 Nampa: KFXJ 94.9 CC (ex KFXD)
 Rathdrum: *NS 90.3 AF



ILLINOIS:

Albion: WBJW 91.7 LC
 Christopher: WUEZ103.5 XC: 37-55-55 / 88-57-31
 Crete: WYAA102.3 CC (ex WEMG), RA
 with black gospel (Chicago)
 Decatur: WDZQ 95.1 adds ABC country (&)
 El Dorado: WEBQ102.3 NC to 6 kW, 328', DA, RE
 Elgin: WJKL 94.3 go to ND
 Geneseo: *NS 88.1 2 kW (v), 335 ft.
 Glenview: WGBK 88.5 PG> 150w, 3389 ft, DA
 XC: 42-05-24 / 87-51-20

ILLINOIS:

Highland Park: WXXY 103.1 CC (ex WVVX), FC to
 R&B oldies (Chicago)
 Jacksonville: W218BA 91.5 NS- 15w: WTSG
 Monee: WMBY 88.9 CC (ex WGNR)
 Morris: WYXX103.1 CC (ex WJDK), FC to
 R&B oldies // WXXY 103.1 Highland Park
 Ramsey: WJLJ 93.3 XG: 39-08-04 / 89-06-00
 St. Joseph: WGNJ 89.3 NO-RE
 Seneca: WJEK 95.7 NW, ABC a/c (&)

INDIANA:

Alexandria: WAXT 96.7 adds Jones AC
 Anderson: WGNR 97.9 CC (ex WXXP)
 Auburn: WGL 102.3 adds 1-on-1 sports // AM (&)
 Danville: WSYW107.1 PC> 1.8 kW, 604 ft.
 Ferdinand: WQKZ 98.5 NW, CD Country (&)
 Hagerstown: WBSH91.1 NW, info/classical // WBST
 Indianapolis: WNAP93.1 adds Howard Stern
 Portland: WBSJ 91.7 NW, info/classical // WBST
 Winamac: WFRI 100.1 LC

IOWA:

New London: *NS 97.3 AF
 Sageville: KIYX 106.1 NO-GE

KANSAS:

Beloit: K217CV 91.3 NS-250w: WAFR 88.3 MS
 Concordia: KCKS 95.3 OSA to 94.9 - C1, 100 kW
 538 ft, XG: 39-38-17 / 97-49-19
 Dearing: *NS 98.1 6 kW, 328 ft.
 Dodge City: KONQ91.9 NC to 223', XC, RX
 Kingman: KCVW 94.3 LC
 Marysville: K219DG91.7 NS-WAFR 88.3 MS
 Medicine Lodge: KREJ 101.7 dec. to 476 ft
 XC: 37-14-00 / 98-39-44
 Pleasanton: *** 101.5 PA: add class C3

KENTUCKY:

Benton: *NS 88.1 AF
 Carlisle: WVCM100.7 RA with religion and
 cont. Christian // WJMM 106.3
 Danville: WHIR 107.1 NC to 4.9 kW, 157 ft.
 Garrison: WOKE 98.3 NO-RE
 Hawesville: WXCM 97.1 PG< 2.5 kW, 505 ft,
 XC: 37-47-44 / 86-50-58
 PA: to CL: Whitesville, KY - class A
 Middlesboro: *NS 90.1 AF

LOUISIANA:

Arcadia: *NS 92.5 5.5 kW, 328 ft.
 Ball: *NS 105.5 1.5 kW, 328 ft.
 Buras: *NS 91.1 AF (AFA)
 Clayton: KFGA107.9 NO-RE
 DeRidder: *NS 91.1 250w, 289 ft.
 Jackson: WBJJ 104.5 NO-CX-DE
 Jonesville: KTYX 105.1 CC (NS)
 Minden: KSYR 95.7 XG: 32-37-50 / 93-16-56
 Natchitoches: KDBH 97.7 QG to 97.3 C3, 25 kW, 312'

MAINE:

Freeport: WMSJ 89.3 LC
 Kennebunk: WBQQ99.3 adds Super classical (&)
 Portland: W281AC 104.1 NS-50w: WMPG 90.9

MARYLAND:

Morningside: WPGC95.5 drops Ed Lover & Dr. Dre

MASSACHUSETTS:

Amherst: WFCR 88.5 NC to 13 kW, 968', RX
 Milton: WMLN 91.5 XG: 42-14-28 / 71-06-52
 New Bedford: *NS 88.1 AF

MICHIGAN:

Brooklyn: WKHM105.3 FC to adult cont.
 Caro: WIDL 92.1 RA with classic rock (&)
 Detroit: WMXD92.3 PG< 45 kW, 479 ft, DA
 Grand Rapids: WFCR 98.7 adds Super - classical (&)
 Lansing: WJIM 97.5 NC to 45 kW, 593', RX
 McMillan: *** 102.3 PA: add class C3
 Oscoda: WCLS100.7 FC to CD Country (&)
 Sault Ste Marie: ***93.9 PA: add class C3
 Stephenson: WFON106.3 NO-RE

MINNESOTA:

Bemidji: *NS 95.5 AF
 Bemidji: K234AA94.7 NS-50w: KAXE 91.7
 Duluth: KTCO 98.9 XG: 46-47-27 / 92-06-59
 Park Rapids: *NS 92.5 3.2 kW, 443 ft.
 Rochester: *NS 88.7 250w(v), 25w(h), 531'
 St. Charles: KLCX 107.7 NO-RE
 Walker: *NS 101.9 6 kW, 328 ft.

MISSISSIPPI:

Fayette: WTYJ 97.7 NC to 6 kW, 328 ft, RX
 Liberty: *NS 107.7 25 kW, 328 ft.
 New Augusta: *** 101.7 GA: add class A
 Newton: WMYQ97.9 PG< 8.7 kW, 551 ft
 XG: 32-21-57 / 88-54-50
 Philadelphia: WWSL102.3 adds Jones AC (&)
 Tylerstown: *** 107.3 GA: add class A

MISSOURI:

Kansas City: KOZN102.1 CC (ex KYYS)
 Kansas City: KYYS99.7 CC (ex KLTH) 'KY'
 Owensville: *NS 95.3 AF
 Pt. Lookout: KSMS 90.5 PC< 8.5 kW, 893', C2
 Savannah: *NS 91.9 AF
 St. Joseph: *NS 91.9 AF
 Wheeling: KULH 105.9 CC (NS)

MONTANA:

Butte: KAPC 91.3 NO-RE
 Choteau: K218CN91.5 5w(v): KGFC 88.9
 Eureka: *** 93.5 GA: add class C3
 Hamilton: *NS 98.1 AF
 Helena: KUHM 91.7 NO-RE
 Kalispell: KUKL 89.9 NO-RE
 Plains: KPLG 91.5 CC (NS)

NEBRASKA:

Nebraska City: KESY 97.7 CC (ex KOSJ)
 Omaha: KSRZ104.5 CC (ex KESY) 'Star'
 Orchard: KGRD105.3 inc. 502',
 XG: 42-20-45 / 98-25-05
 Ord: KNLV 103.9 NC to 4.7 kW, GX

NEVADA:

Las Vegas: KEDG103.5 drops Mancow Muller
 Verdi: K241AK96.1 NS-?? KRZQ 96.5 Reno
 W. Wendover: *NS 89.7 AF



NEW HAMPSHIRE:

Berlin: WPKQ103.7 PC< 4.8 kW, 3759', non-dir
 Gorham: WXLQ107.1 FC to adult rock (&)

NEW JERSEY:

Avalon: WOCZT 94.3 adds ABC AC (&)
 Dover Twp: WWNJ 91.1 NC to 50 kW (v), GX
 E. Orange: WFMU 91.1 NC to 1.5 kW, 492', RE
 Hazlet: WCNJ 89.3 may go top 40, 'C FM'
 Manahawkin: WNJMB89.9 NO-RE
 Trenton: WNJO 94.5 CC (ex WCHR), FC to
 oldies
 Villas: WFNN 98.7 adds JRN classic rock (&)



NEW MEXICO:

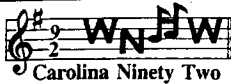
Alamogordo: KNMZ103.7 PC> 6 kW, -39 ft.
 Carlsbad: *NS 106.1 50 kW, 318 ft.
 Corrales: KSWA 95.1 increase to 433'
 XG: 35-04-04 / 106-46-46
 Kirtland: *NS 102.9 100 kW, 1007 ft.
 Maljamar: KMMW105.1 dec. to 924', C1
 XG: 32-52-50 / 103-41-01
 Raton: K216DQ 91.1 NS-250w(h): KRCC 90.5 CO
 Raton: *NS 96.5 AF
 Raton: *NS 97.7 AF
 Taos: KTAO101.5 OSA to C1, 1050w, 2824 ft
 XG: 36-14-48 / 105-38-15

NEW YORK:

Albion: *** 102.1 PA: add class A
 Amsterdam: WBKK 97.7 adds Super - classical (&)
 Arlington: WRRB 96.9 CC (ex WDSP)
 Brockport: WBSB105.5 NO-RE
 Honeoye Falls: WRCD 107.3 PA: to S. Bristol Twp, NY
 class A
 Newburgh: WGNV103.1 PC> 6 kW, 279 ft, DA
 XC: 41-28-25 / 74-08-22
 New York: WBIX 105.1 CC (ex WNSR), FC
 to hot a/c 'Big'
 Ogdensburg: WZEA98.7 NO-GE
 Poughkeepsie: W292CM 106.3 NS-??
 watts, WXHD 90.1
 South Bristol: WNVE 95.1 PA: to Honeoye Falls, cls B
 Sylvan Bch: *NS 100.3 6 kW, 328 ft.
 Truxton: *NS 88.7 100 w, 220 ft.
 Watertown: *NS 90.1 AF

NORTH CAROLINA:

Apex: W299AP107.7 NS-38w: WBFJ 89.3 SC
 Asheboro: WWMO89.5 NO-RE
 Aurora: *NS 104.5 6 kW, 328 ft.
 Biltmore Forest: WZLS 96.5 RA with rock
 (Asheville) (see notes)
 Burlington: WKXU101.1 CC (ex WPCM) 'Kix'
 Creedmoor: W256AH 99.1 NS-55w: WBFJ 89.3 SC
 Goldsboro: WKIX 96.9 CC (ex WKTC)
 Henderson: W299AO 107.7 NS-55w: WBFJ 89.3 SC
 Hertford: WFMZ104.9 NW, cont. Christia



Carolina Ninety Two

WNCN 92.1 WNCN-TV 35 WNCN-TV 35

North Carolina:

Lizard Lick: W257BH 99.3 NS-?? w: WBFJ 89.3 SC
 Maxton: W275AH102.9 NS-?? w: WLPG 91.7 SC
 Nags Head: WNH92.3 OSA to 92.3, 18 kW, 384 ft
 XG: 35-50-49 / 75-37-19

Pinetops: WKTC 95.5 CC (ex WEQQ), FC
 to country "Katie country"

Raleigh: WBBB 96.1 CC (ex WKIX) FC to
 rock "96 Rock"

Raleigh: WCPE 89.7 NC to 1187', C, DA, RE

NORTH DAKOTA:

Fargo: KFBN 88.7 LC

OHIO:

Dayton: WGXM 98.1 RA with variety
 Gibsonburg: WIMX95.7 adds ABC urban AC (&)
 adds Tom Joyner (Toledo)

Marion: WOSB 91.1 XG: 40-41-04 / 83-15-24

Marysville: WKFX105.7 CC (ex WHQK)

McArthur: WYPC 98.7 CC (ex WCLX)

Milford: WAQZ107.1 PC< 2.8 kW, 866 ft, B1
 XC: 39-06-59 / 84-30-07

University Hts: WJCU 88.7 CC (ex WUJC)

OKLAHOMA:

Ardmore: KACO 98.5 QC from 96.5, PC> 14 kW
 now C3, 341 ft, XC: 34-10-56 / 97-05-01

Bethany: KNLT 104.9 FC to sports (OKC)

Guthrie: K247AH97.3 on air // KLVV 88.7 OK

Idabel: *NS 102.9 AF

McAlester: *NS 91.9 1,950w, 246 ft.

Okmulgee: KCFM 94.1 adds Super - classical (&)

Shawnee: KQCV 95.1 CC (ex KABH), NO-RX

Wagoner: KRQZ102.1 FC to classic rock (&)

OREGON:

Central Pt: K216DR91.1 NS-?? w: KLVN 93.3

Florence: *NS 88.1 AF

Hermiston: KQFM 99.3 FC to oldies (&) (Pendleton)

Milton-Freewater: KTHK 97.9 NC to 20 kW, RX

Talent: K209CP 89.7 NS-?? w: KLOV

PENNSYLVANIA:

Boalsburg: WBUS 93.7 LC

Erie: WFGO 94.7 PG> 1.7 kW, 613 ft.

Red Lion: WTHM 96.1 FC to country // WIOV 105.1

Tioga: WPHD 94.7 PC> 12 kW, 482 ft, DA, B1
 XC: 42-03-43 / 77-21-38

SOUTH CAROLINA:

Camden: WPUB102.7 QC from 94.3, PC> 6 kW, 298'

Dillon: *NS 90.5 AF (AFA)

Mt.Pleasant: W211AX90.1 NS-10w(v): WPCS 89.5 FL

Murrell's Inlet: WHGB 88.3 NO-RX

SOUTH DAKOTA:

Lead: *NS 94.3 100 kW, 1643 ft.



TENNESSEE:

Belle Meade: WNPL106.7 noted testing (Nashville)

Cookeville: W265BC 100.9 NS-250w: WKXD 106.9

Hohenwald: WAUO90.7 PG< 500 w.

Jamestown: WCLC105.1 NC to 2850w, 476', GE

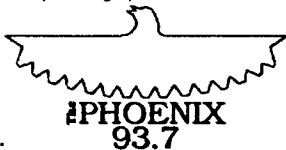
Nashville: WLAC105.9 FC to classic rock, adds
 John Boy & Billy

Ripley: WAUV 89.7 PG 4.3 kW, 394 ft, C3

XG: 35-46-31 / 89-28-18

Springfield: WDBL 94.3 FC to country (// WDBL-AM

5a-12n), Americana (// WYYB 93.7 12n-7p), and
 (urban 7p-midnight)



TEXAS:

Abilene: *NS 90.5 AF

Austin: KPEZ 102.3 adds John Boy & Billy

Bastrop: KYCM 88.5 4 kW (v), 308 ft, DA, CC(NS)

Bastrop: KGSR107.1 PC< 39 kW, 499', C2

Benavides: *** 98.7 XA to add class A

Benavides: KXTM107.7 XA: to C2 - Bruni, TX

Big Spring: *NS 91.5 250w, 331 ft. (AFA)

Bridgeport: KBOC 98.3 PC> 6 kW, 226 ft.

Brownfield: *NS 88.5 AF

Brownwood: *NS 88.5 AF

Caldwell: KLTR 95.1 NO-RE

Callisburg: *NS 91.9 AF

Conroe: KKHT 106.9 NC to 1899', XC, RE

Corpus Christi: KBSO 94.7 XA: change from C3 to C2

Crane: KKKK 101.3 CC (ex KXXL), FC to religion

Daingerfield: KKLK106.9 PA: to C3: Ore City, TX

Dallas: KERA 90.1 will run BBC overnights
 (after midnight, but after 2am on Monday)

Del Rio: K209BX89.9 on this freq, not 89.7 (WAFR)

Floresville: KRIO 94.1 PG> 40 kW, 548 ft.

Gainesville: KECS107.9 NO-RE

Ganado: KZAM104.7 NW, country "KZ 105"

Gatesville: KRYL 98.3 FC to classic rock (&) (Killeen)

George West: *** 93.5 GA: add class C3

Harlingen: *NS 89.9 AF

Hebronville: *NS 101.7 3 kW, 328 ft.

Henderson: KDVE 99.9 RA with Real Country (&)

Ingleside: KCCG107.3 CC (ex KAHX) "Corpus
 Christi Gold"

Jacksonville: KLJT102.3 FC to cont. Christian (Tyler)
 CC (ex KSIZ)

Jefferson: KJTX 104.5 PC> 2.3 kW, 531 ft,

XC: 32-49-23 / 94-28-32

Junction: KAHO 93.5 noted on the air.

Kerrville: KBAB 88.7 CC (NS)

McCook: *NS 91.5 2.6 kW, 351 ft.

Markham: KGFJ 92.5 CC (NS)

Mineral Wells: *** 95.9 PA: add class C1

Monahans: KCDQ102.1 inc. to 984', class C

New Boston: *NS 105.1 AF

New Ulm: KMIA 92.3 NO-RX

Odessa: KLVW 99.1 CC (ex KKKK), FC to
 cont. Christian "K-Love"

Texas:

Odessa: KMCM 96.9 CC (ex KQIP)

Palestine: KLIS 96.7 SG "Texas Country 96-7"

Pleasanton: K220GL91.9 NS-50w(v): KAWZ 88.9 ID

Rio Grande City: KCTM 103.1 GA: to 107.5 - C2

Rockport: KZJM 102.3 CC (ex KXCC), FC to

dance-CHR "Jamz" (Corpus Christi)

Roxton: *** 102.7 PA: add class A

San Antonio: KSYM90.1 PC> 5.7 kW

Sherman: KNKI 96.7 PG> 92 kW, 2034 ft, class C

XG: 33-26-13 / 97-29-05, CL: Flower Mound, TX

Sulphur Sps: KDXE95.9 FC to soft AC

UTAH:

Levan: *NS 99.1 AF

Ogden: KBER101.1 adds Bob & Tom

Richfield: *NS 97.5 32 kW, 3027 ft.



VERMONT:

Stowe: WCVT101.7 adds Super classical (&)

VIRGINIA:

Crozet: WVAO102.3 adds Jones oldies (&)

Deltaville: *NS 92.3 6 kW, 298 ft.

Exmore: *NS 106.1 AF

Williamsburg: WKLR96.5 dec. to 453 ft XG: 37-20-22 /
 77-24-31, CL: Fort Lee, VA

WASHINGTON:

Bridgeport: K296ET 107.1 NS-2w(v), DA: KOMW 92.7

Chewelah: *** 102.7 GA: add class C3

Elma: KAPV102.1 PG> 25 kW, 321 ft, C3

Kennewick: KBLD 91.7 LC

Leavenworth: KLVH 101.1 LC

Manson: *** 94.7 PA: add class C3

Pasco: KEYW 98.3 NC to 1214', C2, XC, RE

Yakima: KRSE105.7 dec. to 544',

XC: 46-42-41 / 120-37-20

WEST VIRGINIA:

Beckley: WJLS 99.5 adds JRN Country (&)

Berkeley Sps: WDHC 93.5 PC 3 kW (cir)

Bridgeport: WDCI104.1 PC> 2450w

Mullens: WPMW92.7 FC to CD Country (&)

Petersburg: WELD101.7 PC> 1.9 kW (h), DA

Pt.Pleasant: WPCN 88.1 CC (NS)

Ravenswood: WMOV99.1 CC (ex WFYZ)

Spencer: WVRC104.7 CX CP for 3 kW, 328 ft.

WISCONSIN:

Algoma: WBDK 96.7 FC to standards (&)

Antigo: WACD106.1 NW, adult standards (&)

Clintonville: WJMQ 92.3 adds CD Country (&)

Cuba City: *NS 89.7 AF

Kelmersville: *** 97.1 XA: add class A

Menomonee Falls: WFMR 98.3 add Super classical (&)

Two Rivers: *** 97.1 GA: add class A

Whiting: WYTE 96.7 XG: 44-38-33 / 89-51-24

WYOMING:

Casper: KASS 106.9 CX CP for 1765', XC

Pinedale: KPIN 101.1 LC

U.S. TERRITORIES:

PUERTO RICO:

Carolina: WAHQ107.7 NC to 12 kW, 2758', GE

VIRGIN ISLANDS:

Charlotte Amalie: *NS 93.1 NO-GE

Frederiksted: WAXJ103.5 NO-GE, CC (NS)



CANADA

ALBERTA:

Banff: CBPH101.3 QG to 101.1

Banff: CHFM 99.3 wants PG> 210 watts

Bonnyville: *NS 98.7 3.88 kW, // CHFA 680

Calgary: CJSI 88.9 wants PG< 19 kW, CC (NS)

Ft. McMurray: CJOK1230 QG to 93.3, 10.7 kW

BRITISH COLUMBIA:

Ft.St.John: CHRX 98.5 PG> 50 kW, XG

Metochin/Sooke: *NS99.5 38 w // CBC Victoria

Victoria: *NS 90.5 3,190w: CBC

Whistler: *NS 92.3 app for 47w // CFOX 99.3

MANITOBA:

Winnipeg: CKMM103.1 FC to CHR "Hot 103"

NEW BRUNSWICK:

Grand Falls: *NS 93.5 NS 5.3 kw wanted // CJCJ

920, with 2.5 hours/wk of local ads

Rogersville: CBAF ?? NO-CX-DE

St. John: CHSJ 94.1 QC from 700, now 50.4 kW

St.John: CJYC 98.9 PG< 8.2 kW, XG

NOVA SCOTIA:

Antigonish: CJFX 580 granted 98.9 / 1.9 kW, must
 go up in power and delete AM by August 31, 2004

NORTHWEST TERRITORIES:

Iqaluit: *NS 89.9 10 w, mostly Inuktitut,

with 7 hours of English a week.

ONTARIO:

Bracebridge: CFBG100.9 FC to classic hits

Hamilton: *NS 101.5 may be on the air

Killaloe: *NS 102.9 app 33 w

Kingston: CBCK107.5 many now relay CBO 91.5

Ottawa, rather than the CBL Toronto net.

Midland: CICZ 104.1 PC> 9170 watts

Neapan: *NS 97.1 app 50 w

Orangeville: CIDC 103.5 wants PG< 30.7 kW

Penetanguishene: *NS 89.7 app 2.8 kW, // CBL 99.1

St.Thomas: CFHK103.1 FC to classic hits

Wawa: *NS 107.1 app 210 w.

"THE VOICE OF MUSKOKA"



(100.9 on your Tuner)

QUÉBEC:

Armagh: CFIN 103.9 wants PG> 1,390 w
 Chicoutimi: CBJE 107.9 wants 102.7, 30 kW
 Québec: CJMF 93.3 PC< 32.9 kW
 Radisson: *NS 103.1 17 w.
 Sept-Iles: *NS 94.1 1,250 watts
 (CKCN 560 wants this, but at 4,880 w)

YUKON:

Whitehorse: CHON 98.1 PG> 4261 w.



MÉXICO

CHIHUAHUA:

Ciudad Juarez: XHGU 105.9 SG "La Romance"
 Ciudad Juarez: XHH 100.7 SG "Majica Digital" a/c SS

COAHUILA:

Ciudad Acuna: XHRG 95.5 15 kW, "Estereo Vida"
 Ciudad Acuna: XHPL99.7 "R. Felicidad"
 Ciudad Acuna: XHHAC 100.7 SG "La Suavecita"
 La Fiera: XHSL 99.1 this station may be here now
 with 1kW, was very weak in Piedras Negras.
 Monclova: XHMZI 91.1 100 kW "La Grande de
 Coahuila", "La Grande 91-1", gets out well
 Piedras Negras: XH?? 106.3 "Fiesta Mexicana", 15 kW
 Piedras Negras: XHTA 94.5 "Dinamica Auditiva"
 Piedras Negras: XHSG 99.9 "Cristal FM Estereo,
 La Suave Diferencia", 10 kW
 Piedras Negras: XH?? 104.3 "Super FM" and
 "La Consentida"
 Piedras Negras: XHRE105.5 SG "Radio Ensueño"
 Piedras Negras: XH?? 106.3, talk // 99.9 XHSG
 Piedras Negras: XEPN 107.1 noted // XHPC 107.9
 "La Estacion de Amor"
 Piedras Negras: XHPC 107.9 SG "Super Estelar"
 Zocalo: XHCDU92.9 SG "Super-Estelar 92.9", 3kw

GUANAJUATO:

Celaya: XERE 88.1 5 kW, "La Comadre" // 920
 Leon: XHXV 88.9 3 kW, "Radio 13" // 1290
 Leon: XHML 90.3 60 kW, "Stereo Vida"
 Guanajuato: XHFL 90.7 // XEFL 1500
 Leon: XHLTO91.1 20 kW, "GOB EDO"
 San Miguel Allende: XHSML 91.3 3 kW, "GOD EDO"
 Leon: XHOI 92.3 20 kW, "Stereo OI"
 Irapuato: XHNY 93.5 40 kW, "Sonorama 93"
 Leon: XHRPL93.9 1 kW, "La Poderosa" // 1270
 Irapuato: XHJTA 94.3 25 kW, "Stereo Amistad"
 Irapuato: XHNNH 95.1 36 kW, "Golden Hits"
 Leon: XHPQ 97.5 50 kW, "Stereo Amistad"
 Leon: XHLG 98.3 20 kW, "Romantica"
 Celaya: XHZN 99.3 1 kW, "Stereo Digital"
 Silao: XESD 99.3 "R. Actualidades" // 1530

Guanajuato:

Leon: XHSO 99.9 90 kW, "Stereo Rey"
 Guanajuato: XHJUA100.7 20 kW "GOB EDO"
 Guanajuato: XHLVO101.5 10 kW "Fiesta Mexicana"
 Leon: XHLVO101.5 30 kW, "Extasis Digital"
 Leon: XHOO102.3 50 kW, "Fiesta Mexicana"
 Leon: XHGTO 103.5 10 kW, "La Nueva
 Radio Cañon"
 Leon: XHMD104.1 90 kW, "FM Globo"
 San Miguel Allende: XHMIG 3 kW, 105.9 "Stereo 106"
 Irapuato: XHITO106.3 5 kW, "Bonita FM"
 Celaya: XHCGT 107.5 50 kW, "El y Ella"

NUEVO LEON:

Monterrey: XHPJ106.9 SG "Classic Mix 106.9"

TAMAULIPAS:

Nuevo Laredo: XHLDO88.9 // XHSOT 91.3
 Soto La Marina
 w/ "Sistema Estatal Radio Tamaulipas"
 Nuevo Laredo: XHNOE 91.3 "Estereo 91 FM"
 Nuevo Laredo: XHLTN 94.1 "Super Estelar 94.1"
 (aren't these the calls for 104.5 Tijuana?)
 Nuevo Laredo: XHBK 95.7 "Super 95"
 Nuevo Laredo: XHNLO 97.1 "Estereo Recuerdo"
 Nuevo Laredo: XHNK99.3 "FM 99, La Major
 Estacion Gruperá", MONO
 Nuevo Laredo: XHAS 101.5 "La Tamaulipeca"
 Nuevo Laredo: XHMMW 102.3 "Estereo Vida"
 Nuevo Laredo: XH?? 104.9 "Radio Universidad"
 ment. "92.3" freq, // 92.3 Rio Bravo

PIRATE WATCH:

West Palm Beach: Two Spanish language pirate stations are reported: 88.7 "Turismo FM", with ads and Latin music (salsa, maregues), and 101.3 "Radio Latina".

• This month has to be a record for amount of Mexican information! Several people deserve thanks for their help! Fernando Garcia sent the extensive information on FM stations from the state of Guanajuato. The source of his information is the national magazine *El Universo de la Radio*. Chip Kelley received the info on the Ciudad Juarez stations via e-mail and forwarded it along. The information from along the Texas border was taken from Glenn Hauser's e-mail "Run To The Border", a report from a recent trip Glenn made to that area. It is a comprehensive report of over 700 lines available to those interested in radio & TV from that area. Contact Glenn at ghauser@hotmail.com for more information. It goes into much more detail than I have here. Very interesting report, Glenn!

• Yet another update to the situation in Asheville, NC on 96.5 (see recent *FM News* columns). On Friday 1/16/98, Biltmore Forest's WZRQ signed off 96.5. The following noon, Zeb Lee's WZLS recaptured that frequency. This case gained notoriety because of GOP Senator Jesse Helms' public support of Lee. Biltmore is talking about an appeal, so this may not yet be over.

• The Radio Aahs network (programming for children) officially signed off the air for good on January 31st. This was mostly a network of AM stations but did have a few FM affiliates.

• The CRTC has granted Winsdor, Ont. stations CIDR 93.9 (adult album alternative) and CIMX 88.7 (modern rock) the freedom to change format at will, without having to apply to the commission for approval. This is due to strong competition from Detroit stations, and the need for flexibility to react to "frequent and sudden" format changes by stations across the river. In addition, license restrictions barring "specialty programming" have been removed (jazz, classical, news, talk, variety, etc.)

• More CRTC news from Bill Hepburn. Bill noted an item on their web page about a proposal to exempt native radio stations from requiring a license to operate. The new rule would take effect for communities with no other commercial broadcasters. Although these stations would not need a license, they would still have to uphold CRTC guidelines. On the same topic, Doug Smith notes that these stations would still need a "broadcasting certificate" from the Canadian "Department of Communication" (DOC). If you were unaware of this: The CRTC handles decisions such as which applicant gets a frequency, etc. while the DOC regulates the technical side of licensees. So these stations would still probably be assigned call letters.

• Doug also sends a correction about an item in last month's column. The multiple stations listed for each freq. in Toronto for digital radio are NOT competing applications. What I forgot is that each frequency can support up to five different programs. So each frequency can support all stations listed. Thanks for the clarification!

• Doug Smith notes that in an interview with *Radio World*, new FCC chair Bill Kennard considers legalizing "microbroadcasting" This may mean the resurrection of the old "Class D" FM stations, possibly up to a power of 100 watts.

• From Doug Smith, word on an interesting web site: Some of you may be aware of the remotely tunable R8 shortwave/MW receiver in Virginia. This month's ham magazine QST indicates there is now a R7000 performing the same task in suburban Washington, DC. If you think a nonID FM or TV DX reception might be from the Washington area, this could be a good way to ID it. The URL is: <http://nihac.info.nih.gov/listener/listener.html> (Real Audio is required)

• Chip Kelley sends an item from the Internet noting that there is further controversy with the format change at 102.3 Rockport, Texas (now KZJM). The station tried the slogan "102.3 Jams". Competitor KZFM 95.5 sued for an injunction, saying that word is associated with their station "Z95".

Judge Mike Westergren agreed, and issued a temporary injunction, restricting KZJM to using the word only eight times per day, and not anywhere in their station slogan. The injunction also requires the station to get new call letters from the FCC, but they can sign on the air in the meantime (the station has been silent for a few weeks). This may be the last of this issue: KZJM probably will not pursue it, according to owner Rick Dames: "My preference is to move on, ... and develop a new concept, market it, perfect it, and kick (KZFM's) *** in the ratings".

• Doug also heard mention on NPR on incident involving Denver's KBPI 106.7, and the Super Bowl. KBPI bought an ad in the *Green Bay Press-Gazette* saying "Good Luck Broncos - Frost Packers", with a hand signal for "We're #1". Apparently, what no one noticed right away was that when folded for insertion into the newspaper, the ad depicted an obscene gesture and the caption became something unprintable! The paper was not pleased. I also heard that KBPI tried this in Pittsburgh the week of the AFC Championship game, but the *Post-Gazette* figured it out before it was too late. I believe KBPI has now also donated to a Wisconsin charity as an "apology".

• While we're on the topic of that state, here is a listing of Wisconsin Public radio stations, by programming type, provided by Doug Smith.

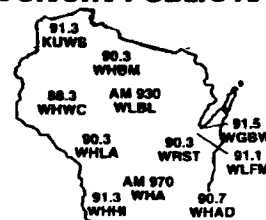
NPR NEWS & IDEAS NETWORK:

KUWS	91.3	Superior
WHBM	90.3	Park Falls
WHWC	88.3	Menomonie
WHLA	90.3	La Crosse
WRST	90.3	Oshkosh
WGBW	91.5	Green Bay
WLFM	91.1	Appleton
WHHI	91.3	Highland
WHAD	90.7	Delafield
WLBL	93.0	Auburndale
WHA	97.0	Madison

NPR NEWS & CLASSICAL MUSIC NET:

WHSA	88.9	Brule
WVSS	90.7	Menomonie
WUEC	89.7	Eau Claire
WHRM	90.9	La Crosse
WPNE	89.3	Green Bay
WERN	88.7	Madison
WGTD	91.1	Kenosha

WISCONSIN PUBLIC RADIO



TV NEWS

March 1998

Douglas E. Smith W9WI
1385 Old Clarksville Pike
Pleasant View, TN 37146-8098
72777.3143@compuserve.com

*: Non-commercial station
nc: No Change
+/-: Channel offsets (plus,
z/n: minus, zero, and none)
^: Digital TV station

APPLICATIONS FOR NEW STATIONS

St.	Ch.	ERP	HAAT	City; applicant	
AR	*46z	5000	339	Gosnell; Comm.TV Educ.	35-28-03N/ 90-11-27W
CA	28^	1000	401	San Francisco; KPIX [5]	37-45-20N/122-27-05W
OH	35^	65	288	Cincinnati; WLWT [5]	39-07-27N/ 84-31-18W
OH	28^	120.3	329	Lorain; WUAB [43]	41-22-45N/ 81-43-12W

KPIX-DT [28] has already been granted. Gosnell, Arkansas is near Memphis, and the new-station application specifies use of the existing tower of Memphis FM station WYPL.

CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

St.	Ch.	ERP	HAAT	City; applicant	
AZ	4n	0.05	KSGI1	Beaver Dam; KSGI [4]	37-09-18N/113-52-48W
AZ	11+	1.58	54	Holbrook; Ch. 11 TV LLC	34-55-05N/110-08-25W
AZ	52n	17.6	K52AO	Tucson; KTVW [33]	32-14-56N/111-06-58W
CA	28^	1000	401	San Francisco; KPIX [5]	37-45-20N/122-27-05W
CO	21-	0.67	KXRM1	Canon City; KXRM [21]	38-27-12N/105-14-25W
CO	21+	1.17	KXRM2	Cripple Creek; KXRM [21]	38-45-17N/105-13-02W
CO	21-	0.83	KXRM3	Victor; KXRM [21]	38-42-50N/105-08-42W
MO	48+	1.16	K48FV	Joplin; B. J. Dykes	37-04-23N/ 94-32-54W
MT	34+	10.0	K34EX	Kalispell; J. Poulsen	48-30-22N/114-20-49W
MT	35+	10.0	K35EZ	Kalispell; M. Davis	48-30-22N/114-20-49W
MT	13z	5.00	588	Lewistown; Sunbelt Comms.	47-10-46N/109-32-05W
MT	42n	15.7	K42EO	Missoula; T. Sheldahl	46-47-49N/114-00-59W
NM	53-	0.79	K53FU	Clovis; B. Salgado	34-21-48N/103-12-27W
PR	46-	12.8	WIDP1	Las Palmas; WIDP [46]	18-01-59N/ 66-07-09W
PR	62z	4.6	W62CW	San Juan; Telecable of PR	18-16-51N/ 66-06-38W
TX	55n	0.05	K55HV	Del Rio; J. Villareal	29-22-25N/100-50-06W
TX	68n	28.1	K68FU	Laredo; J.B. Salazar	27-31-14N/ 99-31-19W
WA	60n	0.62	K60FR	Northport; KHQ [6]	48-54-31N/117-52-04W
WI	68+	0.60	W68DJ	Hayward; S. Gardner	45-59-07N/ 91-32-00W

I believe the offset for KXRM-2 is an error and should be minus.

New-station permits expired, dismissed, etc.:

St.	City	Permits
AZ	Holbrook	11(4 apps) AZ Sells 36
AZ	Tucson	54
AZ	Yuma	24,26,30,38,46,48 CA Coachella 23
CA	El Centro	56 (TBN) CA La Jolla 64
MO	Branson	58 MT Missoula 42
NM	Clovis	53(3 apps) TN Clarksville 57
TX	Del Rio	14 TX Laredo 51
TX	Midland	53 (3 apps)

APPLICATIONS TO CHANGE EXISTING FACILITIES

St.	Ch.	ERP	HAAT	Call	City
AR	29+	nc	266	KHOG-TV	Fayetteville
MT	12z	243	711	KTVH	Helena

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St.	Ch.	ERP	HAAT	Call	City
CA	49+	39.0		K49DD	Sacramento
CA	62+	27.9		K62DO	Sacramento

10

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St.	Ch.	ERP	HAAT	Call	City
FL	5+	3.0		WOCX-LP	Fort Pierce
MS	69z	2.4		W69DY	Tunica
NJ	49-	21.7		W68CV	Camden
NV	43z	5.1		K15EP	Las Vegas
OH	18+	7.7		W18BP	Lima
QU	46	33.0	nc	CKMI-TV-1	Montreal
PR	52z	274		WDZE	Carolina
TX	21-	26.4		K21DZ	San Antonio

CHANGES GRANTED TO EXISTING FACILITIES

St.	Ch.	ERP	HAAT	Call	City
AR	51z	13.9		K51ET	Batesville
CA	44z	10.7		K44DT	Simi Valley
					(from Santa Paula)
FL	22-	14.7		W22CE	Orlando
GA	67+	21.6		W67CI	Atlanta
					(from Roswell)
IN	48+	11.9		WKGK-LP	Kokomo
NY	67z	26.8		W67DQ	Penfield
					(from W55AC, Chocton-Avoca)
SD	24n	26.145		KKRA-LP	Rapid City

Changes expired, dismissed, etc.:

FL	W15BQ	Fort Pierce
WI	WJFW [12]	Rhineland (change tower height)

CHANGES GRANTED TO CONSTRUCTION PERMITS

St.	Ch.	ERP	HAAT	Call	City
AR	36+	6.11		K36DR	El Dorado
AR	20z	9.66		W20BR	Montrose
					(from Greenville, MS)
FL	67z	5000	128	WPXP	Lake Worth
FL	61+	14.0		W61DD	Miami
KY	51-	3.21		W51CK	Talbert
MO	36+	15.7		K36EF	Columbia
MO	38+	15.9		K38EO	Columbia
NM	3z	100	126	KOFT	Farmington
					(from Gallup)
OH	18+	7.7		W18BP	Lima
TX	62+	17.8		K62FR	New Braunfels
					(from channel 32)
VT	49-	nc		W49BU	Manchester

The following changes have been granted to the wireless cable system at Montrose, AR, 33-18-08N/ 91-25-13W:

W28BV	10.54KW	W31BL	10.68KW	W36CA	11.26KW
W42CG	??	W54CF	12.48KW	W56DP	12.61KW
W62CT	12.41KW	W66CW	11.72KW		

The following changes have been granted to the wireless cable system at El Dorado, AR:

K29DC	29-	10.7KW	K46DT	11.8KW	K50EK	12.6KW	
K53FB		12.8KW	K57GF	57+	12.8KW	K59FJ	12.8KW
K66EX	66+	12.1KW					

TECHNICAL CHANGES ON THE AIR

AL	42+	WIAT	Birmingham	major power increase, add vertical polarization.
AL	33z	WCFT-TV	Tuscaloosa	major power & tower height increases, move 34km NNE.
CA	68-	KNLA-LP	L.A.	move 54km ENE from Calabasas, major power & tower height increases, move from channel 38.
CA	9z	KIXE-TV	Redding	unspecified.
HI	13z	KHVO	Hilo	major power & minor tower height increases.

11

TECHNICAL CHANGES ON THE AIR

NC 47+ WRPX Rocky Mt. major tower height increase.
 PA 27- WHTM-TV Harrisburg add vertical polarization, go directional, minor power decrease and tower height increase.

I'm afraid I've had to delete LPTV info again in this section. The only significant LPTV change this month was the move of W34AG Rome, GA to channel 22 (W22CD) Roswell.

NEW STATIONS ON THE AIR

Call:	Ch:	Location:	Power & HAAT:	Coordinates:
K30EU	30-	Alturas, CA	1.8KW	41-32-24N/120-21-09W
K26CO	26z	Redding, CA	37.8KW	40-39-06N/122-31-32W
W59CX	59-	Melbourne, FL	7.03KW	28-08-14N/ 80-42-11W
W54CC	54-	Naples, FL (TBN)	37.2KW	26-12-12N/ 81-48-54W
W36CG	36-	Evansville, IN	17.0KW	38-03-49N/ 87-42-36W
WKNT	40+	Bowling Green, KY	776KW/244m	37-02-10N/ 86-10-20W
K31EO	31n	Mora, NM (KNME [5])	1.23KW	35-57-39N/105-21-13W
W34CI	34+	Mayaguez, PR (WOLE)	6.0KW	18-18-51N/ 67-11-30W
K50EI	50n	Ballinger, TX (TBN)	7.38KW	32-01-55N/ 99-46-29W
K53EN	53n	Temple, TX (TBN)	41.0KW	31-28-00N/ 97-11-14W
K26ES	26+	Casper, WY (KFNB [20])	904 watts	42-44-37N/106-18-31W

WKNT [40] has been operating under a CP for several (5 or more) years. They've finally received their operating license.

STATIONS DELETED/DISMISSED/ETC.

AZ: K07VD	IA: K46ES K54FJ K55HG	OK: K17EB K31ER K67GV
CA: K25FT	LA: K55HJ	PA: W40BG
CO: K15EO K18EQ K25FJ	MI: W52CG	SC: W65DB
K36EB K57GT	MN: K67GK	TN: W28BU W52CM W56DM
FL: W59CY	MO: K36EF	TX: K17DZ K17EA K40EV
GA: WDNM-LP [43]	NC: W47CA W51CP W55CI	WI: W55CN
W47BY W61CU W65DH	W57CM W59DA W61CX	
HI: K40FC K41DZ K51EM	W65DG W69DN	
K57HJ K63FE	NM: K20FI K38EP K50EO	

CALL CHANGES

Was:	Location:	Now:	New [9]	Havre, MT	KBBJ
WRMG [42]	Birmingham, AL	WIAT	New [13]	Lewistown, MT	KBAO
K45ET	Cathedral C., CA	KPSP-LP	WFAY [62]	Fayetteville, NC	WFPX
KRAG [61]	Porterville, CA	KPXF	WAWO [38]	Greenville, NC	WEPX
KCMY [29]	Sacramento, CA	KSPX	WGOT [60]	Merrimack, NH	WPKB
K20DH	Aspen, CO	KSZG-LP	WTJC [26]	Springfield, OH	WDPX
KUBD [59]	Denver, CO	KPXC-TV	New [31]	Elk City, OK	KBCA
WHAI-TV [43]	Bridgeport, CT	WIPX	KWBF [32]	Salem, OR	KBFX
WTWS [26]	New London, CT	WHPX	WPTT-TV [22]	Pittsburgh, PA	WCWB
W65DF	Fort Myers, FL	WLZE-LP	WKZX [28]	Cookeville, TN	WNPX
WDVL-LP [41]	Jacksonville, FL	WPXJ-LP	WPMC [54]	Jellico, TN	WPXK
WCPX-TV [6]	Orlando, FL	WKMG-TV	KTFH [49]	Conroe, TX	KFXB
WTLK-TV [14]	Rome, GA	WPXA	KHIM [55]	Conroe, TX	KTBU
KAPA [66]	Kaneohe, HI	KPKO	K020C	Nacogdoches, TX	KNCD-LP
KTVC [48]	Cedar Rapids, IA	KPKR	New [6]	Vernal, UT	KBCJ
W51BU	Indianapolis, IN	WIPX-LP	W17BR	Augusta Co., VA	WPMG-LP
WNUV-TV [54]	Baltimore, MD	WNUV	WVVI [66]	Manassas, VA	WPKW
WBSX [31]	Ann Arbor, MI	WPXD	WJNW [57]	Janesville, WI	WEPN-TV
WILV [43]	Battle Ck., MI	WZPX			

Yet again, the stations with "PX" in the calls are part of the new PaxNet network. Note that several of the Paxson stations have changed calls yet again, to a different "PX" call than they got the first time around. Why? Don't ask me! By the way, I noted WPXE [55] Kenosha, WI using their new call while visiting in Milwaukee in early February.

PROGRAMMING CHANGES

WABM [68]	Birmingham, AL	from UPN to independent.
K55FU	Escondido, CA	to 3ABN.
K29DX	San Diego, CA	to translate KRCA [62].
XHIJ [44]	Cd. Juarez, CI	from Telemundo to ??

12

PROGRAMMING CHANGES

K38EO	Colo. Sprs., CO	traded for K68BY here.
K68BY	Colo. Sprs., CO	traded for K38EO here.
WPXJ-LP [41]	Jacksonville, FL	to PaxNet.
WTTV [4]	Bloomington, IN	drops UPN, goes independent.
WNDY [23]	Marion, IN	from WB to UPN.
WTTK [29]	Muncie, IN	WTTV [4] satellite drops UPN.
WQTV-LP [46]	Murray, KY	WB affiliate sold to Murray State University.

WUTB [24]	Baltimore, MD	from HSC to UPN.
KSMO [62]	Kansas City, MO	drops UPN, goes independent.
KDNL [30]	St. Louis, MO	drops UPN, now ABC only.
WSSN-LP [10]	Wilmington, NC	to UPN.
K63BU	Gallina, NM	sold to KNME [5], PBS.
K67CE	Gallina, NM	sold to KRQE [13], CBS.
KMAZ [48]	Las Cruces, NM	from UPN to Telemundo.
KUPN [21]	Las Vegas, NV	from UPN to WB. (expect call change)
WUTV [29]	Buffalo, NY	from Fox & UPN to Fox only.
WBUF-LP [39]	Buffalo, NY	to UPN. (translator of WNGS [67])
WNGS [67]	Springville, NY	to UPN.
WNPA [19]	Jeannette, PA	to UPN.
WCWB [22]	Pittsburgh, PA	to WB.
KFDM [6]	Beaumont, TX	drops UPN, now CBS only.
KTMV-LP [8]	C. Christi, TX	to UPN & Tejano music videos.
K47DF	C. Christi, TX	drops UPN, now Fox only.
KNWS [51]	Katy, TX	see KLDL [55].
KLDL [55]	L. Dallas, TX	drops most home shopping, goes independent. Still some PSN.
K58DP	Seattle, WA	to ValueVision.
K22AD	Gillette, WY	sold to KNBN-LP [27]; to be NBC?

OTHER STUFF

Thanks to David Cox, Bill Hepburn, Jeff Kitsko, Chip Kelley, and John Lentz for information appearing elsewhere in this month's column. Jeff has a scan of the new WCWB [22] logo on members.aol.com/JKitsko/tvg.html.

There hasn't been much news from Canada this month, but there was one surprising item. There will be no new national English-language networks north of the border, at least not any time soon. Global has stations or affiliates in all provinces except Newfoundland, and was widely expected to apply for a national network license; WIC (which has stations in B.C. and Manitoba and recently expanded its CHCH-TV to province-wide coverage of Ontario) was also believed to be interested in a network license. But neither company applied; indeed, Global filed documents against the issuance of network licenses. It looks like they consider their commonly-owned chain of independent stations a better idea.

Note that frequent skip target WCPX [6] Orlando has changed call letters. No reason has been given for the change, but my bet is that Paxson paid for the change so they could get WCPX for one of their affiliates. The station is still a CBS affiliate, and no other changes have been noted.

FORUM

Bill Hepburn, Brampton ON:

The January ice storm in eastern Ontario and Quebec seems to have temporarily cost SRC ("French CBC") some of its stations. Bill's local SRC affiliate CBLFT [25] Toronto normally relays CBOFT [9] Ottawa. But during the storm, he noted CBLFT with a SRC ID listing Regina, Winnipeg, Edmonton, Vancouver, Windsor, La Tuque, Mont-Laurier, and Mont-Tremblant. Bill tags it an "odd" assortment of cities, and I agree! The latter three cities have SRC transmitters that normally repeat the CBFT [2] signal from Montreal directly off-air, presumably CBFT was off due to the icing.

FORUM

CBLFT was also noted carrying the cable "RDI" news channel, and with "SRC Atlantique" (CBAFT [11] Moncton). To my knowledge, CKWS-TV [11] Kingston, Ontario was the only TV station to lose its tower. I would assume power failures were the reason for the Montreal outage.

David Cox, Birmingham AL:

Shortly after Christmas, WBMG [42] fired its entire news staff and suspended its newscasts. Poor ratings were blamed. During the timeslots formerly occupied by news, David saw a countdown clock with the slogan "It's About Time". On February 5, the newscasts resumed, with a new staff, new set, and new call letters. Anchors are from Baltimore and West Virginia; weather staff from Orlando and The Weather Channel.

Also in Birmingham, WABM [68] is among the Sinclair-owned stations that have dropped UPN and gone independent. UPN told the *Birmingham News* a new affiliate will definitely be signed - but there are no unaffiliated stations in the market at this time. David speculates WDBB [17] might pick up UPN when it moves to Bessemer. Could be. WDBB is actually already licensed to Bessemer, but the tower is still where it was when it was licensed to Tuscaloosa, and I would imagine the signal in most of Birmingham leaves a lot to be desired.

Chip Kelley, Texas:

Chip has noted the KMAZ [48] affiliation change in the program schedules in the El Paso newspaper. He says XHJ is still Telemundo for the time being, operating parallel to KMAZ much of the day.

Two religious stations are adding more WB programs beyond the WB Kids material. KNLJ [25] and KWHB [47] are carrying some of the "less racy" programs -- "Nick Freno", "7th Heaven", etc. -- though not necessarily at the "right" times.

In Texas, KLDT [55] has finally lost its license, and a new station has taken over the channel. Confusingly, the new station is also using the calls KLDT, and the same transmitter. Programming, however, has changed. "Family-oriented" syndicated programs are aired from 3:30pm to midnight, though PSN home shopping does still fill the rest of the day. Reports are that the shopping will go away when contracts expire.

The owners of the new KLDT also own former all-news outlet KNWS [51] Katy/Houston, and the same programming changes have occurred at the Houston station. (in my opinion, a shame -- KNWS was an interesting & excellent service, though I'm sure also a very expensive one to operate.)

Frank Aden, Boise ID:

Idaho religious LPTV K22DX is now IDing as "KLCP". (the call letters in the FCC database have been changed to KCLP-LP) It's no longer 100% WorshipNet, but airs some old comedies like "Dobie Gillis". While looking up this call change, I was quite surprised to find an application has been filed to allocate channel 37 to Meridian, Idaho! (new members may not be aware, that FCC regulations prohibit the use of channel 37 by TV stations; it's been reserved for radio astronomy..)

Fernando Garcia, Monterrey NL:

One quick note from Mexico this month. The XHGC [5] network has begun inserting a new logo "bug" during programming. A 5 inside a star with rounded tips is supered over the lower right of the screen. The logo is removed during commercials.

SATELLITE NEWS



GEORGE W JENSEN
4804 ANNUNA AVENUE
BALTIMORE MD 21206-4220

Here comes another barrage of various changes. First - Court TV and H-TV are no longer in the clear. Daystar on S3 - 13 is religious - not totally infomercials. On Satcom 3 - delete 15 - Showtime - East 583 - is not Atlantic Satellite color bars again - NOT Court TV

Galaxy 5 - 24 - NOW Showtime - East - VC2 from C-3-15
Enik 2 - Ku-Band - digital

326 - ABC - West
327 - CBS - West Feed
362 - Global Network
359 - ?

406 - Speed Vision
407 - The Golf Channel
431 - WGN - Chicago
432 - WPIX - New York
433 - KTLA - Los Angeles
461 - Viewer's Choice Pay-Per-View previews
462 - WTN - Women's Television Network
680 - Playboy Channel
795 - new unknown
851 - Chinese programming

GE 1

7 - WPCB - ch 40 - Greensburg/Pittsburgh - Cornerstone Television - Ch 40 has been sold to a commercial broadcaster - what happens to Cornerstone?

digital

607 - Outdoor Life
820 - WSR???? - Miami??? hard to ID - Caracol mentioned frequently - thought this was in Colombia?

821 - Pax Net - Catholic religious hispanic
822 - vacant
823 - KWKW - Los Angeles

Galaxy 7

5 - delete Fox Net West

digital

Golf Channel - forgot channel oops!

602 - The Food Network
603 - International Channel
801 - The Box - 2nd feed
805 - Country Music Television
806 - BET on Jazz

GE 3

21 - now - Fox Sports World
22 - delete Americas Collectibles on Ku - non-digital -
19 and 24 - ID's as PBS digital???????

One last item on the 4DTV receiver. Sometime during the first week of February - another chunk of generic sat designators was downloaded - for both C and K-Bands. That's all for now - see you in 30.....'73's

George

PRIMESTAR[®]
S A T E L L I T E T V

am

Arab Radio & Television

COURT TV

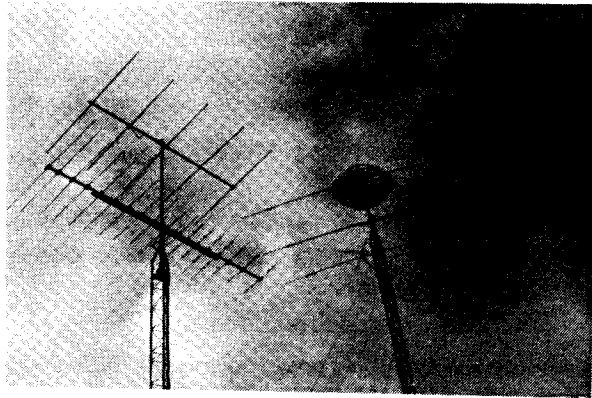
COURTROOM TELEVISION NETWORK

Jeff Kruszka, Editor
 5024 S. Braxton Ave.
 Baton Rouge, LA 70817
 JTKruszka@worldnet.att.net

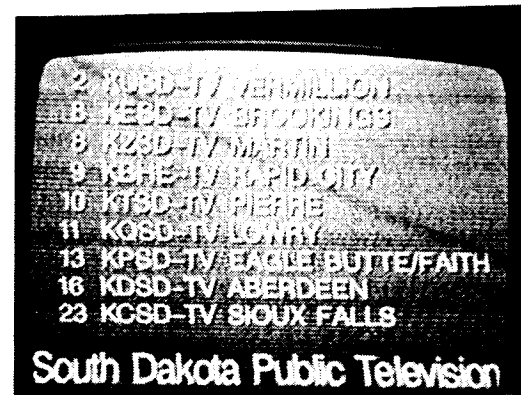
March 1998

Here's some photos from one of the DX masters, Jeff Kadet, Macomb, IL:

Equipment: **Big Tower:** Screened CM 7' dish @ 85' w/RDX Labs preamp, .500 hardline. Mosley ham tribander at 80'. Omnidirectional FM ant. at 75' w/.500 hardline. **Small Tower:** Cushcraft 5 el. 6M yagi @ 58', Delhi VIP-307 SR @ 48' w/RDX Labs preamp and RG-11.



K62FH-62 Frost, MN
 273 mi Tr seen 8/25/97
 @0159 CDT
 "xtr of KEYC-12 Mankato"



KCSD-23 Sioux Falls, SD
 368 mi Tr seen 8/25/97
 @0159 CDT



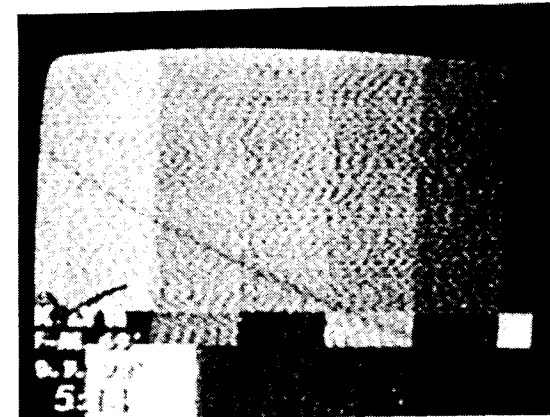
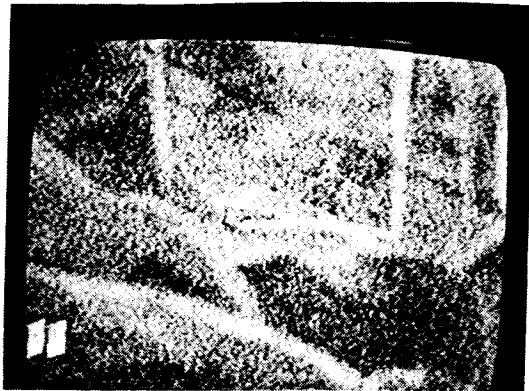
WCCO-TV
 Mug Give-Away
 P.O. Box 50066
 Minneapolis, MN
 55405-0066

K38CD-38 St. James, MN
 310 mi Tr seen 8/25/97
 @0153 CDT
 "xtr for WCCO-4 Minneapolis"



K56ET-56 Fargo, ND
 526 mi Tr seen 8/25/97
 @0136 CDT
 "TBN"

K36AA-36 Alexandria, MN
447 mi Tr seen 8/25/97
@0205 CDT
"xtr of KARE-11 Minneapolis"



KVLY-11 Fargo, ND
578 mi Tr seen 8/25/97
@0516 CDT
*"Temps for Fargo-Moorhead
and Grand Forks lower left"*

KVRR-15 Fargo, ND
525 mi Tr seen 8/25/97
@0456 CDT

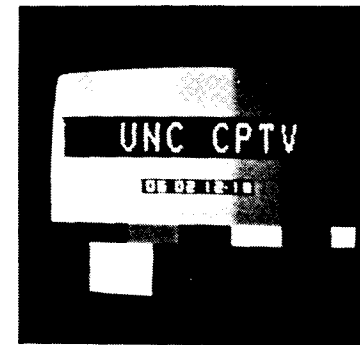


More from Jeff next month.

Now some fantastic coastal Atlantic tropo from Roy Barstow, Teaticket, MA:

Equipment: 2 FUBA XC-391-D Yagi antennas, 30' AGL, Winegard PA-4975 preamp, .750 hardline, Tecknika tuner, 1970 Zenith set.

K34DG-34 Willmar, MN
393 mi Tr seen 8/25/97
@0501 CDT



WUNU-31 Lumberton, NC
640 mi Tr seen 8/27/97
@0527 ET



WHMC-23 Conway, SC
702 mi Tr seen 8/27/97
@0530 ET

73's, *Jeff*



The Fourth Quarter Report

December 1997

Southern FM DX

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

March 1998

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

With the 1997 elections, ANARC will have one new appointee, effective in 1998. George Zeller will take a seat on the Executive Board, with Mark Meece and Harold Cones receiving re-election to their respective seats.

Did you realize that there are two bills before the U.S. Congress that if passed will severely affect every radio hobbyist in the United States?? For more information about these two bills, how they will affect you, and how to help defeat them, you should check out this website address: www.bearcat1.com/alert.htm

ANARC acknowledged the loss of longtime radio hobbyist Arthur Cushen this year. Arthur brought an awareness of shortwave radio to not only the Pacific Rim, but to the entire world. We send our condolences to his wife Ralda and the entire Cushen family. *Deceased, Arthur Cushen, MBE 1920-1997*

Do you own a computer? ...on the internet? ... checked out the ANARC internet site?? Questions, questions. Here it is:

<http://www.anarc.org>

As a WTFDA member, do you know what ANARC does for you? ANARC does these things, and more:

1. It bridges the 17 member clubs together under one umbrella and promotes an interchange of ideas;
2. It speaks in behalf of the North American radio clubs to broadcasters, equipment manufacturers and dealers, the news media and the general public;
3. It maintains a code of standards which may be adopted by and for individual radio clubs;
4. It maintains resources and provides support for large-scale hobby-wide projects.

Don't forget that the ANARC Executive Board will be holding its regular annual meeting at the Winter SWL Fest in March 1998, held in Kulpsville, PA.

Now that you've read the latest ANARC news, let me introduce myself. My name is Jim Thomas. Some of you know me. I was happy to host the 1996 WTFDA Convention in Estes Park, Colorado. Now I feel very privileged to represent your club, WTFDA, and to be affiliated with the Association of North American Radio Clubs. I thank the WTFDA executive board for having the confidence in me to carry out this position. If any members have a query about ANARC, would like me to convey information to the Executive Board of ANARC, or have comments, complaints or compliments, I am easily accessible. If you have e-mail access, send me your message at:

oldwest@verinet.com

If you would care to write me, note the address below. In either case, if you would like to talk to me by telephone, I will give you my toll-free 800 telephone number. Just send me a note, requesting my telephone number.

LET'S GROW THIS HOBBY TOGETHER!



Jim Thomas, wdx0fbu
490 N. Saint Louis Ave.
Loveland, Colorado 80537

Pat Dyer - WA5IYX
5315 Silvertop Drive
San Antonio, TX 78228-2744
<http://home.swbell.net/pjdyer/index.html>
pjdyer3@juno.com CST

Realistic TM-1001 tuner (two IF mod w/150 kHz filters) into Allied 426. 52 ohm step-attenuator box used to reduce local intermod/overload when needed. 6 element Archer antenna at 20' with rotor.

<u>10/22 Es</u>			
1851 XHBIO	92.3	JA	Guadalajara, local ad 690
<u>10/28 Es</u>			
1035 KROE	94.9	WY	Sheridan, local ad 1153
1038 KVOD	92.5	CO	Greeley, cx 817
1038 KMGW	94.5	WY	Casper, local wx, "Star 94" 1012
1039 KIQK	104.1	SD	Rapid City, k, "Kick-104" 1038
1041 KIGN	97.9	WY	Cheyenne, local ad, "King FM" 881
1051 KLZY	92.5	WY	Powell, area ad 1189
1052 KAAQ	105.9	NE	Alliance, k, ID 891
1052 KTAK	93.9	WY	Riverton, local ad 1058
1054 KXPK	96.5	CO	Evergreen, area ad, "The Peak" 817
1054 KYGO	98.5	CO	Denver, ID 807
1103 KH1H	95.7	CO	Denver, "K-High," "Smooth Jazz" 803
1105 KMIS	99.1	CO	Glenwood Springs, k, ID 855
1106 KUMT	105.7	UT	Cenerville, "The Mountain" 1089
1120 KZHT	94.9	UT	Provo, "ZHT" 1061
1121 KBZN	97.9	UT	Ogden, area ad 1089
1130 KJYE	92.3	CO	Grand Junction, local ad 880
1132 KQSW	96.5	CO	Rock Springs, area ad, "Q-96," k 1015
1152 KNAB	104.1	CO	Burlington, local ad 710
1154 KMKM	93.9	SD	Rapid City, ID, "Magic" 1039
1159 KLMP	97.9	SD	Rapid City, ID, wx, rel 103.9
<u>11/8 Ms</u>			
1600 KSHE	94.7	MO	Crestwood, area news 785

The Leonids, at least here, did not live up to the expectations of many who are hoping for the return in a few years of something like the 1966 "storm." 73, Pat - WA5IYX



Fernando Garcia
Apartado 30, suc. B
Ciudad Guadalupe, NL 67181 Mexico
fertrvd@sdm.net.mx CST

Pioneer KE2700QR car stereo

<u>1/11 Es</u>			
1630 KWGS	89.5	OK	Tulsa, full ID, NPR
1631 KKLH	104.7	MO	Marshfield, wx

1634 KTST	101.9	OK	Oklahoma City, k, OKC ads, "The Twister"
1640 KGOZ	101.7	MO	Gallatin, "Z-101.7," wx, Hwy 36
1645 KLIR	101.1	NE	Columbus, "KLIR 101," wx
1650 KCIY	106.5	MO	Liberty, calls
1652 KZBZ	104.9	KS	Salina, calls, "Breezy 104.9"
1653 KBLB	102.5	KS	North Fort Riley, "Sunny 102.5"
1655 KMTY	97.7	NE	Holdrege, calls, "Mighty 97"
1659 KANZ	91.1	KS	Garden City, full ID, NPR
1700 KTNE	91.1	NE	Alliance, full ID, NE public radio
1704 KSCB	107.5	KS	Liberal, calls
1707 KVAJ	105.7	CO	Lamar, calls, EE-SS
1711 KZLS	107.9	KS	Great Bend, calls
1716 KHYM	103.9	KS	Copeland, calls, Christian Radio
1717 KCKK	104.3	CO	Longmont, area ads
1721 KEXL	106.7	NE	Norfolk, calls, area ads
1729 KIOS	91.5	NE	Omaha, NPR, wx
1730 KANU	91.5	KS	Lawrence, ID
1732 KQKQ	98.5	IA	Council Bluffs, "Sweet 98"
1739 KKCI	102.5	KS	Goodland, calls
1743 KSOK	107.9	KS	Winfield, calls, wx, k
1747 KFRX	104.7	NE	Lincoln, calls, area ads
1752 KATT	100.5	OK	Oklahoma City, "The Cat," r
1758 KCUR	89.3	MO	Kansas City, calls, EE-SS
1759 KBUZ	90.3	KS	Topeka, calls, Christian radio
1800 KMUW	89.1	KS	Wichita, full ID
1800 KTGL	92.9	NE	Beatrice, ID, classic r, "Eagle"
1809 KKRD	107.3	KS	Wichita, calls
1811 KKQY	101.9	KS	Hill City, k, "Y-102"
1816 KJCK	94.5	KS	Junction City, calls, area ads
1829 WBYZ	94.5	GA	Baxley, calls
2001 KYEZ	93.7	KS	Salina, k, "KY-94"

Great to have this opening on a weekend.

1/17 Tr

1942 XHMRI	93.7	YU	Merida, "Super Stereo," ads
1950 XHEO	92.9	YU	Merida, "Solidaridad"
2005 XHMT	98.5	YU	Merida, "La Comadre," area ads
2025 XHMRA	99.3	YU	Merida, "Digital 99.3," area ads

This opening was noted since 11AM, 92.9 and 93.7 were in all day with weak signals, peaked up at night. 73's Fernando

From the Editor



Some great Es around the holidays! Had some skip here, but nothing up to FM.

Check out my new website, FM DX Web! It's devoted entirely to FM DXing, with lots of special features. It's still under construction, but I hope to have it up and running full steam by April 1. More on FM DX Web in the April VUD.

See y'all next month!

NORTHERN FM-DX

GREG CONIGLIO
90 SLATE CREEK DR. APT #3
CHEEKTOWAGA, NEW YORK 14227

e-mail: coniglio@localnet.com

For DXers in: MA, NH, VT, CT, MA, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR, AK, Canada
MARCH 1998 **DEADLINE: THE 5TH** **LOG CUTOFF: 3 MOS. FROM POSTMARK**

A small column this time around, but still better than last month's no-show (no reports were received). Looks like some of you have capitalized on an unusually high amount of off-season E-skip this winter (though many openings did not get above channel 6). The El Nino weather patterns also seem to have led to more tropes being caught than during an average winter in the northern U.S. & Canada. Let's hear from you today! ...

STEVEN SOLOMON - P.O. BOX 101 - SAGAMORE, MASSACHUSETTS 02561

Equipment: Yamaha T-85 w/3-110 khz filter s. Also: Antenna: Channel Master 4408 (Stereo Probe 9, 35 feet HAAT)

NOVEMBER 1997 DX

1010	WRDW	93.1	GA	Warrenton, talk	1073
1012	WGOR	93.9	GA	Martinez, FM94-Super country	1033
1015	WIKQ	94.9	TN	Greeneville, k	1015
1025	WDEC	94.7	GA	Americus, Mix 94.7,	1100
1031	WHKZ	96.7	SC	Cayce, Kix 96,	1031
1037	WFOX	97.1	GA	Gainsville, Fox 97, old	1120
1039	WHLZ	92.5	SC	Manning, Wheels	926
1042	WEAS	93.1	GA	Savannah, Jammin E-93, urban	1053
1046	WICI	94.7	SC	Sumter	925
1048	WSTF	97.9	FL	St. Augustine, Star 97.9 adult cont.	1227
1050	WDMG	99.5	GA	Douglas	1199
1056	WISK	98.7	GA	Americus	1100
1058	WNFB	94.3	FL	Lake City, Gators	1246
1108	WJCL	96.5	GA	Savannah, k, Kix 96-5	1053
1118	WDEN	105.3	GA	Macon, k	1161
1124	WEZL	103.5	SC	Charleston, Weasel	1010
1126	WYAK	103.1	SC	Surfside Bch, Y103	926
1134	WZAT	102.1	GA	Savannah, Z102, alt.	1053
1137	WQLC	102.1	GA	Watertown, Power K102 country	1241
1151	WPCV	97.5	FL	Lakeland, 97K, k	1388

NOV. 98 DX continued

1646	WCVR	102.1	VT	Randolph, real cntry	217
DECEMBER 1997 DX					
19 TRS					
0900	WPNH	100.1	NH	Plymouth, clas. rock	168
29 Tr					
0849	WEQX	102.7	VT	Manchester, alt.	252
JANUARY 1998 DX					
25 TrS					
1024	Wkli	100.9	NY	Albany, K100	223
1027	WRNX	100.9	MA	Amherst, alt.	149
1100	WBYY	98.7	NH	Somersworth, The Bay	129
30 Tr					
0918	WRci	107.7	NH	Hillsboro, I-93, AOR	144



DAN CASHIN - 1335 HARRINGTON RD. - HAVERTOWN, PENNSYLVANIA 19083

Equipment: IF modified (5-150 khz), ST-G70 Technics tuner, Jerrold QFM-9 antenna
LOCATION: Good hilltop near the intersection of PA Routes 3 & 320, in NE Havertown

HAVERTOWN, PA NORMAL CONDITIONS

RECEPTION REPORT

WPBE	88.1	PA	W. Philadelphia
WNJT	88.1	NJ	Trenton
WXPB	88.5	PA	Philadelphia
WBZC	88.9	NJ	Burlington
WAJM	88.9	NJ	Atlantic City
WWFM	89.1	NJ	Mercer
WRDV	89.3	PA	Warminster
WTF	89.5	PA	Harrisburg
WDVR	89.7	NJ	Stockton
WVIA	89.9	PA	Scranton-Wilkes-Barre
WOEL	89.9	MD	Elkton
WRTI	90.1	PA	Philadelphia
WHYY	90.9	PA	Philadelphia
WVUD	91.3	DE	Newark
WESM	91.3	MD	Princess Anne
WRTQ	91.3	NJ	Ocean City
WTSR	91.3	NJ	Trenton

WNYE	91.5	NY	New York
WKDU	91.7	PA	Philadelphia
WNti	91.9	NJ	Hackettstown
WVLT	92.1	NJ	Vineland
WARQ	92.3	MD	Baltimore
WXTU	92.5	PA	Philadelphia
WHTF	92.7	PA	Starview
WMGS	92.9	PA	Wilkes-Barre
WPOC	93.1	MD	Baltimore
WMMR	93.3	PA	Philadelphia
WSBG	93.5	PA	Stroudsburg
WSTW	93.7	DE	Wilmington
WYSP	94.1	PA	Philadelphia
WCHR	94.5	NJ	Trenton
WDSB	94.7	DE	Dover
WRBT	94.9	PA	Harrisburg
WZZO	95.1	PA	Bethlehem
WXXM	95.7	PA	Harrisburg
WLEV	96.1	PA	Easton

NORTHERN FM DX

MARCH 1998

Dan Cashin's report continues..

WWDB	96.5	PA	Philadelphia
WLAN	96.9	PA	Lancaster
WBSS	97.3	NJ	Millville
WPST	97.5	NJ	Trenton
WUGL	98.1	PA	Philadelphia
WUSL	98.9	PA	Philadelphia
WJBR	99.5	DE	Wilmington
WODE	99.9	PA	Easton
WPLY	100.3	PA	Media
WFMZ	100.7	PA	Allentown
WBEB	101.1	PA	Philadelphia
WKXW	101.5	NJ	Trenton
WIOQ	102.1	PA	Philadelphia
WRFY	102.5	PA	Reading
WMGK	102.9	PA	Philadelphia
WPRB	103.3	NJ	Princeton
WDRE	103.9	PA	Jenkintown
WAEB	104.1	PA	Allentown
WYXR	104.5	PA	Philadelphia
WRDR	104.9	NJ	Egg Harbor City
WDAS	105.3	PA	Philadelphia
WJJZ	106.1	PA	Philadelphia
WWMX	106.5	MD	Baltimore
WRKZ	106.7	PA	Hershey
WKDN	106.9	NJ	Camden
W297AD	107.3	PA	Philadelphia (WRDV 89.3)
WBYN	107.5	PA	Boyertown
WSNJ	107.7	NJ	Bridgeton

Dan also mentions that a new, small, FM outdoor antenna was reviewed in the December 97 issue of *Stereophile*, on page 175. Steve Stone, the reviewer, gave a thumbs up on the antenna. It is the FANFAR FM-2G Outdoor Antenna, 56", 5 oz., and is \$85.00 with a limited 1 yr. warranty. Have any WTFDAers tried this out, in comparison to a Probe 9, or other "traditional" FM outdoor antennas? The company's address is Fanfare - P.O. Box 455 - Buffalo, NY 14225-0455. Their fax is 1-716-683-5421. Their web address is <http://www.fanfare.com>, and their e-mail is info@fanfare.com. Dan also invites us all to the ANARC Winter SWL fest near Philadelphia. Information appeared in last month's FM NEWS. If you want to attend, better hurry: By the time you read this, it won't be too far ahead!

WILLIAM R. HEPBURN - 35 LOCKWOOD RD. - BRAMPTON, ONTARIO L6Y 4T7

hepburnw@total.net, Equipment: modified JVC RX-707V Receiver, CM VHF Yagi @ 47', 10 db RS amp.

No routine tropo relogs under 473 miles.

NOVEMBER 1997

17 MS					
0103	KFLU	99.1	MO	Clayton D, prev AU	651
0407	KXKC	99.1	LA	New Iberia, c/s, k mx	1139
18 TR					
0046	CHRI	99.1	ON	Ottawa Christian w/Overnight Show	233
21 TR					
2100	CKCB	95.1	ON	Collingwood, "The Peak" "The Peak"	63
24 MS					
0433	KTTS	94.7	MO	Springfield, c/s	828

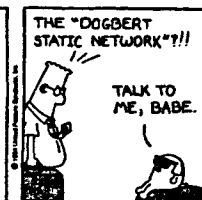
DECEMBER 1997

03 TR					
0025	WXM70	162.5	WV	Spencer	
NWR now w/automated voice 345					
9 MS					
1756	KOSU	91.7	OK	Stillwater NPR Oklahoma Public Radio	1058
1759	KDID	90.7	TX	Plainview	1341
NPR, S NM/W TX mentioned					
1808	KDGS	93.9	KS	Andover, Wichita ment	1008
1810	KGRW	94.7	TX	Friena Latino relaying 104.3 Borger	1400
15 TR					
2134	CICZ	104.1	ON	Midland, wx o/WHTT	60
18 TR					
0826	WWG51	162.45	PA	Warren NWR State College	131
FEBRUARY 1998					
08 TR					
1859	CBCM	107.5	ON	Midland ssumed - CBC back on // CBCK	77
10 TR					
0730	WWG	162.425	NY	Olean?	130
// NWR Buffalo, ex-162.50, 162.525					

Tejano FM

104.3 & 94.7

AMARILLO, BORGER, DUMAS HEREFORD, FRONIA, CLOVIS, N.M.



WESTERN TV-DX

March 1998

Dennis Park Smith, 3703 Dixon Street, Santa Barbara, CA 93105-2419 (805) 687-7803

This report is for January 1998. There was a little Es here in Santa Barbara, and coastal southern-CA tropo on TV-FM (San Diego/Tijuana, up to 200 mi) was better than usual for this time of year. Following are conditions by date (all on indoor rabbit ears and bow-tie).

- Jan. 1: Morning, tropo fair; afternoon-night poor.
- Jan. 2-17: No tropo (rain Jan 2-3).
- Jan. 8: Es, ch. 2, 1720 to 1815 PST, only one station, Spanish, all novelas (soaps), at least one was XEW-2-net produced. No ID.
- Jan. 11: Es, ch. 2, noted 1900 to approx 1930, record offer, ID 1901 KMID Midland TX. Approx 1000 miles.
- Jan. 17-21: Out of town.
- Jan. 22: Tropo, rather suddenly good, afternoon
- Jan. 23-24: Tropo fair.
- Jan. 25-26: Tropo good.
- Jan. 27: Tropo fair and deteriorating.
- Jan. 28: Tropo poor.
- Jan. 29: No tropo (rainy conditions once again).
- Jan. 30-Feb.1: Out of town, but still unsettled, probably no tropo.

Best of DX to All. Dennis

William Eckberg, 1032 Sterling Rd., Dixon, IL 61021

January 1998		CST
07 tr 1900	KSAX 42 MN	404
08 tr 0005	KSAX 42 MN	404
10 Es 1815	KNAZ 2 AZ	1258
11 Es 1825	KENW 3 NM	912
15 Es 2000	KPRC 2 TX	893
	2005 WEDU 3 FL	1031
	2100 WBRZ 2 LA	784
27 tr 1755	KSAX 42 MN	404
31 tr 0400	WGKI 33 MI Cadillac	258
	0405 WGPU 45 MI Vanderbilt	333

Saw Es on four occasions in January. Twice more an unidentified Mexican ch 2 was in. January 1 and 15 openings were through ch. 6. January 15 was the most extensive, but I didn't notice it until 2000, just before it peaked through ch. 6.

Victor Frank
12450 Skyline Blvd.
Woodside, CA 94062-4541
email frank@sneezy.sri.com
(650)851-7031

Finally logged two Michigan educationals on January 31. They run parallel and were on all night. Opportunity to log two low kW stations.

Jeff Kruszka, 5024 S. Braxton Ave., Baton Rouge, LA 70817

January 1998		CST
1 Es 1821	unid 4 SS weak	
2 tr 0724	WATL 36 GA ID	455
	WGNX 46 GA over local	455
	0727 WUPA 69 GA weak	455
7 Es 1757	unids 3-5, SS, weak	
8 Es 1756	unid 3 brief	
10 tr 1030	WNGM 34 GA ID, like a local	515
	2045 WUSF 16 FL PBS, ID@2100	550
	2111 WKCF 18 FL ID	575
	2132 unid 66 w/ "The Right Stuff"	
	2215 WWSB 40 FL ID, Sarasota ad	555
	2219 WFTS 28 FL ABC 28	550
	2228 WJTC 44 FL overriding local WGBM	230
	2301 WMG1 41 GA NBC	
	2352 WRBW 65 FL logo lower right	600
11 tr 0045	WFTX 36 FL ID	620
	0133 WBSF 43 FL HSN//49,50	660
	0200 WTGL 52 FL ID	645
Es 1554	unid 4 TV Azteca	
	1600 KVOA 4 AZ ID	1175
	1606 XEPM 2 CHIH nullted out WBRZ-21	
	1608 KTVK 3 AZ Pac-10 basketball game	1245
	1619 XEJ 5 CHIH ID	910
15 Es 1943	unid 3 CBS, 4 NBC and ABC	
17 Es 1230	KTVK 3 AZ "Rebecca's Garden", 3 logo	1245
	KPHO 5 AZ CBS	
18 Es 1022	WRC 4 DC ID, web address	985
	WTTG 5 DC Fox	985
	KYW 3 PA	1120
	1037 WPVI 6 PA ID, Action News ad	1120
28 tr 2130	KVDA 60 TX ID	445
	2148 KXAN 36 TX NBC	395

Not a bad month! A good mix of E-skip and tropo for what is normally a quiet month. I finally got my first new channel 6 in quite a while after fiddling with the "search" tuning on my TV. I tried to fix my FM overload problems on that channel with a couple of Channel Master FM traps, to no avail. But the E-skip was strong enough on the 18th to make it unnecessary.

Pat Dyer, WASIYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744 pjdyer3@juno.com

Western TV DX *Pat Dyer's report begins*

Equipment:

NEW JVC HR-J400U VCR, Winegard CA-5254 VHF at 18' AGL; Antennacraft YS-2 5 element channel 2 Yagi at 11' AGL; Antennacraft P-5 chicken-wired dish at 25' AGL (to feedpoint). All on rotors and RG-6.

January 1998		UTC
12 Es 1659	WTWO 2 IN Terre Haute	
	1759 WBTW 3 NC Charlotte	
14 Es 0000	unIDs to Mexico through ch 4	
	0031 XEW-TV net ch 2 VBI text cycling through 3 or 4 messages.	
	0044 XHAP 2 Acapulco ID supered on top	

Remember that this "VBI Text" is not encoded material like closed caption, but rather readily seen when the VBI is brought into screen view. Ironically, when the signal is best, the frame will tend to synch lock and "hide" it!

15 Es 2225	unIDs 2 to 4 Mexico, to SW	
16	0025 still much the same as prior, no idents	
	0045 likely some US TV Es paths mixed in now	
	0100 ch 2-4 now to NE; fadesout ~0250	
17 Es 0000	unIDs ch 2-4 into Mexico (SW)	
	VBI with "cycling" XEW-net texts	
	1655 ch 2,4	
	1700 KIDK 3 ID Idaho Falls	
	1900 KVBC 3 NV Las Vegas	
	1900 KNAZ 2 AZ Flagstaff	
	1953 KTVK 3 AZ Phoenix -2100	
	2329 KGAN 2 IA Cedar Rapids	
18 Es 0016	WBBM 2 IL Chicago	
19 Es 0115	unIDs Mexico	
	0230 unIDs to Ch 5 until 0330	

February 1998		UTC
12 Es 0028	WFMY 2 NC Greensboro	
	WBTW 3 NC Charlotte	

FM DX as early as 2301Z (2/11), traces of TV Es remained to approx 0230Z.

Danny Oglethorpe, P.O. Box 6688, Shreveport, LA 71136-6688

January 1998		UTC
08 Es 1925	XHBS 4 SIN/SON	
	2002 KVOA 4 AZ	1004
	2023 KNAZ 2 AZ	1045
	2020 KPHO 5 AZ	1065
	2345 KASA 2 NM	753
11 Es 2238	XHIT 4 CHIH	778
	2259 XHBS 4 SIN/SON	
	KPHO 5 AZ	1065
	2359 KNAZ 2 AZ	1045
12 Es 0010	XHG 4 JAL	1003
	0040 KTW0 2 WY	996
13 Es 2130	XEWO 2 AGS/JAL	

14 Es 0145	XHAGU 2 AGS XEQ-9; ID0159	896
15 Es 2258	XHFM 2 VER "Televisa Veracruz"	950
16 Es 0100	KGAN 2 IA	672
	WUND 2 NC	1031
	0128 KTCA 2 MN	869
	0220 WMMR 2 MD	1072
	0247 WSJK 2 TN "2/15"	665
17 Es 1800	KVOA 4 AZ	1004
	1815 KDBC 4 TX	746
18 tr 0725	WXXV 25 MS ID bars	309
	WMAH 19 MS	319
	0730 WLOX 13 MS	319
Es 1532	WUND 2 NC Solid for an hour	1031
	1632 WWAY 3 NC Floating	924
	WECT 6 NC Floating	924
20 Es 0248	WGRZ 2 NY ID in bar	1091
	0315 WJBK 2 MI	904
21 Es 0028	YSR 2 El Salvador	
	"Tele Dos" News	1324

Comments:

Had to replace the Centronics brand rotor that I purchased in 1996 from Grove. Replaced it with another Channel Master 9510A. The rotor from Grove was ruined because it leaked in rainwater.

Fernando Garcia, San Salvador 415, Rincon de la Sierra, Cd Guadalupe, NL, 67181 MEXICO

Equipment:

Sony KV-27EXR15, Screened CM 7'dish 85', RG11, UA900 amp. Sony KV-13TR27, CM 1110 30', CM 8 bay UHF array 60'.

1800' ASL, No re-logs in the same month, only tropo 500+ miles.

January 10, 1998		CST
2030 WNOL	38 LA New Orleans WB38 logo bt right	694
	WLAE 32 LA New Orleans WLAE calls bt right	694
	WGN0 26 LA New Orleans LBC 26 logo bt right	694
	WCCL 49 LA New Orleans HSN	688
	WUPL 54 LA Slidell UPN 54	705
2045 WPMI	15 AL Mobii NBC //KVEO-23	838
	KADN 15 LA Lafayette fighting, w/WPMI	586
	WXXV 25 MS Gulfport FOX	764
	WVLA 33 LA Baton Rouge NBC	633
2100	KADN-15 as local and \$	
	KVHP 29 LA Lake Charles FOX	530

January 11, 1998		
0145 WMPV	21 AL Mobile	TBN 842
	WEIQ 42 AL Mobile Educ., SAP	825
	WMAH 19 MS Biloxi MS Educ. TV	770
0745 KLPB	24 LA Lafayette LPB	567
	WLPB 27 LA Baton Rouge LPB //ch 24	638
0800 WHBR	33 FL Pensacola under WVLA	838
	WGBC 30 MS Meridian NBC News, ID	834
	KLTL 18 LA Lake Charles //chs 24, 27	548
	WIIQ 41 AL Demopolis APT, Barney	877
0830 WFSG	56 FL Panama City weak	929
	WPAN 53 FL Fort Walton B. Rel., later Shopping	869

Western TV DX *F. Garcia's report continues*

0900 To my surprise at this time WLAE-32 carries a Religious program in Spanish.

0945 WMDN 24 MS Meridian PMK o/u KLPB 834
 WDBD 40 MS Jackson FOX, This Week 754
 2015 KETK 56 TX Jacksonville NBC 532
 KMSS 33 LA Shreveport \$, FOX, calls 615
 KLTS 24 LA Shreveport LPB 616
 KFKX 51 TX Longview FOX, weak 557
 2130 KXTX 39 TX Dallas weak 518
 KDTX 58 TX Dallas TBN 518

January 16, 1998
 1930 New Orleans 26, 32, 38, 49
 2030 WFTX 36 FL Cape Coral
 FOX //XHXFOX-17 east in color briefly 1142
 At this time New Orleans signals are gone.
 extremely weak signal on chs 38 and 50 to east

January 17, 1998
 1445 XHDP 11 YU Merida \$, //XHDF-13 780
 1500 XHTP 9 YU Merida //XEW-2 780
 XHST 13 YU Merida ID, TV13, Educ. 780
 I found this opening when I was trying to get some Es skip on FM as chs 2-5 shows Es DX to nw, FM's from Merida in via tropo

1900 Southwest LA
 1930 XHMEY 7 YU Merida o/u local ??
 2130 N. Orleans, B. Rouge, Biloxi, Mobile
 2200 K46DG 46 LA Lafayette 587

January 18, 1998
 0130 Opening continues same paths and now extending up to ne TX
 KLAX 31 LA Alexandria Shopping 618
 K66FI 66 LA Opelousas TBN 599
 KLFT-LP 21LA Lafayette VJN 592
 0530 WIIQ 41 AL Demopolis 877
 K39EL 39 TX Laredo Rel. SS-EE 131
 After many days of trying to get an ID, finally I saw superimposed calls when signal picked up.

0545 K56DR 56 LA Baton Rouge TBN // KLUJ-44 633
 K55HA 55 LA New Iberia //K46DG 596
 0600 K46CR 46 LA Baton Rouge VJN, o/u K46DG 645
 K69HD 69 LA Church Point 586
 0615 WHOA 32 AL Montgomery ABC, o/u WLAE 928
 WGMB 44 LA Baton Rouge o/u KLUJ 633
 0630 K30EMt30 LA Houma Wall Street Journal
 0715 KLAFLP62LA Opelousas //chs 46, 55 600
 Opening from Yucatan is still productive

0830 WHNO 20 LA New Orleans Rel., N. Orleans Ph. 688
 0900 W36AC 36 MS McComb TBN 710
 1000 K49DE 49 LA New Iberia TBN, splashing WCCL 596

January 19, 1998
 2000 K32ERt32 TX McAllen //K30FF, K67HC
 2100 WBHS 50 FL Tampa HSN, \$ at 2115 1116
 2130 WTTA 38 FL St. Petersburg \$, Full ID, SAP 1116
 WWWWB32 FL Lakeland Bay Watch, \$ 1135
 2200 WTVT 13 FL Tampa FOX 13, SAP=WX 1117
 temperature 55, humidity 96%, barometer=30.01
 2215 W56CN56 FL Venice Shopping 1-800-379-3298 1106

January 20, 1998
 0100 WBSV 62 FL Venice Shop at Home 1107
 0115 Southwest LA
 0130 WFTS 28 FL Tampa loc. out, \$, full ID 1116
 0445 KFWD 52 TX Fort Worth Test Pattern 522
 This opening to north TX marked the 600th day with tropo opening to Texas (500+ miles) since first log in July of 1991. No Florida DX at this time

0500 KINZ 68 TX Arlington Shop at Home 518
 KERA 13 TX Dallas ID Bars 518
 0515 KDFI 27 TX Dallas floating calls u/KLDO 518
 KHSX 49 TX Irving HSN 518
 KLDT 55 TX Lake Dallas Shopping 544
 0530 KWHB 47 OK Tulsa Full ID 765
 Television with a Family Vision

0537 KXAN 36, temperature 50, humidity 100%, barometer=29.91

0545 South and Central LA picking up

0600 WUSF 16 FL Tampa SAP dif. of MAIN 1116
 Florida UHF's returned
 WTOG 44 FL St. Petersburg o/u KLUJ 1116
 0615 WGCU 30 FL Fort Myers \$, o/u KLUJ K30FF 1144
 WBBH 20 FL Fort Myers \$, ID as NBC 2, wx 1144
 WWSB 40 FL Sarasota \$, area news 1108
 0645 WRBW 65 FL Orlando 65 logo bt right 1192
 WBSF 43 FL Melbourne HSN //WBHS-50 1200
 WTGL 52 FL Cocoa Rel. 1200
 WBCC 68 FL Cocoa Educ. 1200
 WACX 55 FL Leesburg \$, Rel. 1180
 WMFE 24 FL Orlando SAP dif. of MAIN 1191
 WKCF 18 FL Clermont 1192
 WOFL 35 FL Orlando FOX // WFTX-36 1191

0700 WXEL 42 FL West Palm B. Full ID, \$, blasting in 1238
 WFLX 29 FL West Palm B Full ID, \$, blasting in 1238
 WRMD-LP 57 FL Tampa Spanish 1104
 0715 W52CN 52 FL Port Charlotte TBN o/u W??? 1126
 WRXY 49 FL Tice 1142

0730 Had to leave

January 28, 1998
 0530 Southwest LA
 2200 New Orleans 26, 32, 38

January 29, 1998
 0300 Gulf opening extending up to N. Orleans, B. Rouge and coast MS
 0530 dead conditions

January 30, 1998
 1900 ch 5 strong, with unid bars to n-nw,

This seems to be new local lptv station, this will ruin my DX on this channel. I'll have to say good bye to semi-local KRGV in Weslaco, TX and also Es skip DX barometer to check FM band

Best opening was Jan. 20 with strong signals from central and south Florida.

After a bad 1997 for tropo I can't wait to get into Spring tropo openings.
 73 Fernando

EASTERN TV DX

March, 1998

LOCAL TIME UNLESS OTHERWISE NOTED

January 5th meteor shower produced for Bob Seybold thru Channel 20! I have seen bursts as high as CH-49 with a TV set (Buffalo or Saginaw TBN - not L.S.) but no more than one burst a week on UHF. To see what Bob Seybold witnessed is quite inspiring. I wonder if Digital TV will be conducive to UHF meteor scatter with its clear picture at weak signal levels.

Bob Seybold 1865 W. Main Rd., Silver Creek, NY 14136

November, 1997

27 Es 0100-0200
 WBRZ 2 LA Baton Rouge
 KTBSTV 3 LA Shreveport
 WWLTV 4 LA New Orleans
 KJRH 2 OK Tulsa
 KSNW 3 KS Wichita
 and other UNIDS

December, 1997

09 Es 1800-1900
 KPRC 2 TX Houston
 KBTXTV 3 TX Bryan
 KDFWTV 4 TX Dallas
 WLBTTV 3 MS Jackson

10 Es 1600-1830
 KJRH 2 OK Tulsa
 KNOPTV 2 NE North Platte
 KSNK 2 KS Great Bend
 KSNW 3 KS Wichita
 WBRZ 2 LA Baton Rouge

11 Es 1900-1945
 WLBTTV 3 MS Jackson
 KARKTV 4 AR Little rock
 KDTN 2 TX Denton

15 Tr 0300-0800
 WICD 15 IL Champaign
 WAND 17 IL Decatur
 WBXX 20 TN Knoxville
 KDNLTV 30 MO St. Louis
 WHSL 46 MO St. Louis
 WFIETV 14 IN Evansville
 WEVV 44 IN Evansville
 WLEXTV 18 KY Lexington
 WTVQTV 36 KY Lexington
 WHOI 19 IL Peoria
 WMBDTV 31 IL Peoria
 WICS 20 IL Springfield
 WLFITV 18 IN Lafayette
 WOSUTV 34 OH Columbus
 WWHO 53 OH Chillicothe

Russell Miller
 HC 61, Box 86B
 N. Amity, ME 04471-9622
 email address - estvdx@ainop.com

WPBOTV 42 OH Portsmouth

January, 1998

05 MS All Evening
 KTBS 3 LA Shreveport
 KATC 3 LA Lafayette
 WPMI 15 AL Mobile
 KADN 15 LA Lafayette
 WHNO 20 LA New Orleans

Comments: Jan. 5th meteor scatter. Frequent MS bursts on channels 3 and 8, only open VHF channels. Also, another unid on 20 and indications on 16, 18, and 21. No evidence of Es or Tropo on this date. (Nice going Bob! I'd love to see your equipment list. RM)

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

Equipment: For M.S. Winegard Model CC-3123
 2 10 El. Ants. cut for Ch-2-3- 1 Ant. Fixed, 1 Ant. moveable, 15' above ground, Titan II Amp, Cheap Co-Ax

December, 1997

03 Tr 1900-2300
 WUNM 19 NC 577
 WUNJ 39 NC 660
 WSFX 26 NC 660
 W45BG 45 VA 455
 W36BK 36 VA 400
 WVEC 13 VA 455
 + 15,27,33,43 VA 455
 08 Es 2330 CITO 3 ON 706
 09 Es 0000 CHBX 2 ON 763
 0015 KDHL 3 MN 1120
 0030 CKPR 2 ON 1018
 1230-1600
 WTW0 2 IN 895
 KOET 3 OK 1403
 KARK 4 AR 1272
 WTVF 5 TN 941
 WCBI 4 MS 1132
 WJXT 4 FL 990
 WEDU 3 FL 1153

10 Es 1030-1630
 WEAR 3 FL 1209
 WWL 4 LA 1349
 WBBM 2 IL 875
 WCIA 3 IL 936
 11 Es 2215 KTVI 2 MO 1063

13 Ms	0410	WSIL	3	IL	3/4 CB	1007
	0425	WCIA	3	IL	3/4 CB	936
16 Tr	2000	WQAV	34	NJ		240
17 Tr	0015	W36BK	36	VA		400
		W36BJ	36	NJ		240
		WWAC	53	NJ		240
	0030	W45BG	45	VA		455
		W52AB	52	VA		410
		W23BA	23	NJ		188
		W63AM	63	VA		410
17 Tr	0800	W19BM	19	VA		455
		W24BI	24	VA		455
		WYDO	14	NC		562
27 Es	2000	WPBT	2	FL		1209
	2015	WEDU	3	FL		1153
	2210	CUBA	2	T		
	2245	CUBA	3			1470
TELE REBELDE						
	2300	WTVJ	4	FL		1206
28 Es	1920	KTBS	3	LA		1416
	2210	WESH	2	FL		1059
29 Es	1710	KIMT	3	IA		1035
	1730	WOIT	5	IA		1182
		WJMN	3	MI		870
Ms	2053	WWAY	3	NC		660
30 Es	1030	WDIQ	2	AL		1112
		WEAR	3	FL		1209
	2015	WTWO	2	IN		895
	2030	KCTV	5	MO		1269

January, 1998

02 Ms	0110	KYW	3	PA	R/S	265
	0126	WRCB	3	TN	R/S	909
	0558	WBTV	3	NC	R/S	715
07 Ms	0045	WREG	3	TN	R/S	1127
	0300	WRBL	3	GA	R/S	1007
08 Ms	0100	WEDU	3	FL		1153
	0140	WUNC	4	NC	3/4 CB	607
	0634	WSAV	3	GA	R/S	883
Promo for Ray Charles						
10 Ms	0323	WCIA	3	IL	3/4 CB	936
11 Ms	0235	WSIL	3	IL	3/4 CB	1007
	0540	WWAY	3	NC	3/4 CB	660
12 Ms	0336	WSAV	3	GA	R/S	883
14 Ms	0512	WWAY	3	NC	3/4 CB	660
	0523	WBTV	3	NC	R/S	715
16 Es	2245	KYTV	3	MO		1226
	2300	WREG	3	TN		1127
		KTVO	3	MO		1118
17 Gw		WBPX	46	MA		
Call Change						
Ms	0242	WSIL	3	IL	3/4 CB	1007
	0350	WCIA	3	IL	3/4 CB	936
	0455		3	Unid	R/S	
ANC in White Letters B/R (maybe WISC?RM)						
19 Ms	0107	CITO	3	ON	T	
BBS-MCTV Slide						
	0451	WAVE	3	KY		
21 Ms	0505	WCIA	3	IL		936
News						

The last time I tried Ms, the VCR was yet to be invented. Willis Monk, Hi.

28

Not only does KYW PA come in, but also WFSB-3-CT at 114 miles in also on Ms. It takes me from 30 min. to 2 hrs. to review a tape. If the channel is open, one can zip through in 30 min. Every tape I get hits on it, but most are from 24 hr. stations. Out of 12 Ms tapes reviewed, there was Es on about 4 or 5 of them. And this Es comes up for about 10 seconds or more and quits. Also, on a good Ms burst, you may receive 2 or more stations. These long Ms bursts that produce many stations at once acts very similar to the quick Es that comes in at times.

On most VCR's going from frame to frame, a three in a logo will change shape. I have a tree in front of one of my ants and I will get 2 or 3 frames of an ID and next 2 frames zilch and then maybe 1 to 3 frames later. So a clear horizon will net better results. My house roof now is full of ants and my wife now calls me, "The Tin Man." Roy, could the "zilched" frames be caused by a slow polarization shift? ("Slow" compared to the extremely fast shift of circular polarization.) RM

Jim Ayers, 2497 Wind Forest Ct., Norcross GA 30071 email - jimayers@raider.net

Equipment: Panasonic 19" TV; CM Quantum 1110 VHF at 30ft; Antennacraft P-7 UHF dish w/ Winegard PA-4975 preamp at 38 ft (feedpoint); Alliance HD-73 rotor; RG-8 coax; Hi-Q traps for high-band VHF plus UHF (still need low-band VHF model!)

November, 1997 new trop (EST)

07	1425	WUXP	30	TN		217
(local off-air)						
18	0756	WBXX	20	TN		146
27	0918	WJWJ	16	SC		222
	0924	WHNT	19	AL		143
	1000	WOWL	15	AL		209

December, 1997 new trop (EST)

09	2048	WABM	68	AL		154
	2055	WJSU	40	AL		93
(audio over local LPTV)						
10	0735	WHIQ	25	AL		143

January, 1998 new trop (EST)

18	1237	WZDX	54	AL		139
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Slow season for DX. Saw no skip last year (first year since '73). Hope '98 is an improvement. 135 loggings since August. Only two openings of interest, both in October. It took four weeks to log 100 stations, five YEARS to get that many on my first log.

William R. Hepburn, Brampton, ON, CAN - hepburnw@total.net

Equipment: Panasonic PC-29XF40R TV & Icom IC-R100 Scanner, CM VHF & UHF Yagis @ 47', 10 db RS VHF & 28 db Anteco UHF amps

No routine tropo relogs under 473 miles - EST

October, 1997

12 Tr	0038	WSYX	6	OH	T	
	0141	WWMT	3	MI	T	
28 Es	0221	WESH	2	FL		1020
	0416	muf	5			

December, 1997

02 Tr	2144	WHIO	7	OH		356
Dayton (CBS u/WKBW)						
	2217	WCHS	8	WV		380
Charleston-Huntington (ABC +offset)						
NEW VHF-HI RECORD						
03 Tr	0025	WSFJ	51	OH		290
(now w/Worship)						
08 Es	2344	muf	2			
09 Es	1725	KSNC	2	KS		1051
	1727	KSWK	3	KS		1183
	1728	KAMR	4	TX		1305
	1804	KFOR	4	OK		1093
09 Es	1810	muf	94.7			
	1826	KWGN	2	CO		1335
	1829	KDTN	2	TX		1203
	1834	KMID	2	TX		1457
Midland-Odessa (ABC Nx)						
	1847	KSNW	3	KS		1011
	1858	KDFW	4	TX		1204
	1927	KJRH	2	OK		992
10 Es	1533	WBRZ	2	LA		1115
	1534	WMAB	2	MS		873
	1539	muf	4			
11 Es	1933	muf	4			
	1937	CBHT	3	NS	T	
	1957	CJCH5	2	NS		856
Sheet Harbour (ATV +offset)						

16 Es	1717	muf	3			
	1727	WESH	2	FL		1020
30 Es	2105	KQTV	2	(KS)		819
		KSNW	3	KS		1011
	2106	KTVI	2	MO		655
		KJRH	2	OK		992
	2110	KFOR	4	OK		1093
	2116	KSNC	2	KS		1051
	2118	KOET	3	OK	T	

January, 1998

08 Es	2200	muf	3	WSW		
12 Es	1858	KUSD	2	SD		854
	1916	KSNB	4	NE		963
	1917	KGAN	2	IA		619
	1941	KNOP	2	NE		1079
		KMTV	3	NE		842
	1943	KLNE	3	NE		1033
	2000	KQTV	2	(KS)		819
	2011	muf	6			
	2031	KPRY-4 or	4	KLBY-4		
19 Es	2117	muf	4	SSW		

Editors Report

January, 1998

12 Es	0712	WJBK	2	MI		792
	1856	WBAY	2	WI		985
	1917	KGAN	2	IA		1214
	2002	WTWO	2	IN		1086
16 Es	2100	WUND	2	NC		816
	2102	WWAY	3	NC		966
	2121	WUNC	4	NC		904
	2218	WCBD	2	SC		1111
	2220	WJXT	4	FL		1311

PARABOLIC DISH GAIN

Channel	Dish Diameter in Feet				
	5	7	10	12	16
14	15	17.9	21	22.5	25
42	17.6	20.5	23.6	25	27.7
69	19.5	22.5	25.5	27	29.6

Gain in dbi with 55% reflector efficiency subtract 2.1 db for gain over a simple dipole (dbd). Add 2.6 db for improbable 100% reflector efficiency. Remember - double your power adds 3 db — lose half your power results in a 3db loss. 1 db is barely noticable.

BEAMWIDTHS OF PARABOLIC DISH DESIGNED FOR MAXIMUM GAIN

Channel	Dish Diameter in Feet				
	5	7	10	12	16
14	29°	21°	15°	12°	9°
42	22°	15°	11°	9°	7°
69	17°	12°	9°	7°	5°

Approximate Beamwidths at half power points (minus 3dbs) Note: A 30' dish on Ch-69 would have a half power beamwidth of less than 3°!

Halfpower Beamwidth = $\frac{70X \text{ wavelength}}{\text{Dish Diameter}}$ (in feet)

29



FORTY TWO YEARS IN BROADCASTING

(Your editor reflects on his career and the remarkable changes in radio & tv.)

It doesn't seem possible!

Was it really 42 years ago that a skinny kid named Tom Bryant managed to shoehorn his way into a job at KFJR-TV? It was indeed!

Now, in 1998, that 15 year old upstart is scaring the heck out of 58; and by the time you read this will have retired from WSM after 30+ years with the station.

Of course everything changes with time...some things more than others. Radio, in many respects was slow to change; in fact during its first 25 years there were very few advances.

By the time I hopped aboard, radio was almost 35. Reel-to-reel tape recorders had been in common use for less than 10 years. Cartridge tape machines wouldn't show up for 4 more years...cassettes even later. There were no 8-tracks. Stereo broadcasting didn't exist.

Network feeds (for radio) were delivered via the AT&T 'long lines' division.

33 1/3 and 45 rpm vinyl discs had just displaced the venerable 78's!

Digital? What's that? Giga-bytes? You gotta be kidding!

Satellites? CDs? DATs? Never heard of them either!

In TV-land tubes and transformers ruled the roost. Transistors, printed circuit boards and their successors were still in their infancy. Most equipment was as big as a barn and weighed a ton.

Black and white images were scanned by iconoscope, vidicon, and image orthicon tubes. RCA's color system was barely out of the cradle.

Speaking of RCA...in broadcast circles those three letters were tantamount to deity. Anything less was considered second-rate.

Videotape hadn't been perfected, thus almost everything aired was live. Filmed programs were expensive and used only sparingly by the networks. Kinescope copies of live shows brought programming to stations not yet hooked up to a network.

The hazards of live television were endless and many of the tales of 'live' foul-ups are legendary.

The mid 1950s was an exciting time to be in broadcasting. While everyone knew that incredible new technologies were on the horizon, few could even begin to dream of what the future held.

FM at this point in time was a toy of sorts for the few owners who were willing to spend the money to operate a transmitter. In an attempt to cater to wealthy potential advertisers most stations programmed classical music. Construction permits were more or less up for grabs...just write the FCC a letter asking for one...and you'd probably get it! But...who in their right mind would want one?

There were few FM receivers, and people were satisfied with AM to the extent that they weren't about to spend a penny for a radio that, in most markets, would only pick up one or two stations.

AM experts felt that their competitive enemy was television; and few (if any) had a clue that in surprisingly few years FM would begin to run them into bankruptcy or off the air completely. TV meanwhile, created its own niche and never had much effect on radio other than to drive it away from block programming (such as soap operas and mysteries) and toward top 40 and other more diversified formats.

So, at this point, you have a rather generalized scenario of where AM, FM and TV were poised about 40 years ago...and the floodgates are about to be lifted.

Two-way microwave relay systems connect the nation. It is possible to do a split-screen with an image of the Golden Gate bridge in San Francisco on the left side and the Statue of Liberty in New York Harbor on the right.

Color telecasts catch the attention of everyone. In spite of astronomical prices, people buy color sets in mind-boggling quantities.

Videotape improves picture quality. So does the newly developed transistorized equipment. Television is coming of age.

The popularity of FM broadcasting begins to spread like wildfire. Innovative programmers have begun to replace 'elevator music' formats with rock and roll...and the clarity of stereophonic FM sound literally captures the kids! FM is on its rise to the top of the heap. AM, for the most part, has buried its head in the sand believing it is invincible.

Technological changes come so rapidly that it's impossible to keep up.

Local cable systems and satellite distribution of programming change the fabric of the delivery system.

The introduction of computers literally turns the industry upside down. Everything changes .. billing .. research .. editing .. telephones .. logging .. news prep .. robotics .. control consoles .. you name it.....!!!!

Rule changes have made their mark as well. LMAs, ownership of multiple stations in a market, control of broadcast policymaking being turned over to 'bean-counters' and a myriad of other legal, technical, and philosophical changes may not manifest their full impact for years.

For a relatively young industry the transformation has been nothing less than astounding.

And...the future? We can only watch and listen in amazement as the whirlwind of change continues. As an observer rather than a participant, I think I'll enjoy it immensely.

GET READY FOR AURORAL DX!

by Bill Thompson

By now, you've likely heard the good news. Not only is sunspot activity on the rise, but it's rising rapidly, and the upcoming peak, to come sometime in the 2000-2001 period, promises to be a good one for the VHF DX enthusiast. It could well mean that there will be one last opportunity for the TV DXer to catch lowband TV signals propagated via F2 skip, possibly in the form of a few interesting transcontinental DX loggings, and maybe some trans-oceanic TV DX as well. But—you may not have been thinking about a more likely DX opportunity for you that's also the result of elevated sunspot activity. In fact, March is the peak month for this somewhat-less-exotic but nonetheless very exciting DX propagation mode--aurora!

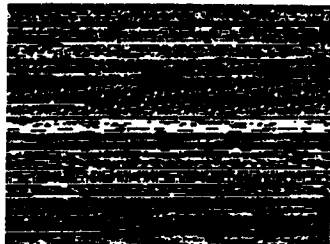
Aurora DX activity can of course take place any time of the year—but it is most likely to happen around the time of the spring and fall equinoxes. Some of the more memorable DX-producing auroral sessions take place at night at this time of the year, usually plus or minus two weeks from the first day of spring. March auroral activity often comes at time when DXers most welcome it--after those long winter "DX doldrums."

Auroral signals are VERY different from other types of propagation, and therefore quite distinctive. They will usually peak in strength from the northwest, due north (though not as often as you might think) and the northeast. What you are getting, though, actually may be east, west, or even SOUTH of you.

This is a type of skip propagation, but it actually behaves far more like scatter than the "mirror-like" quality of E-skip. What actually is taking place is a wildly unstable (in terms of maximum usable frequency as well as the stability of the reflecting surface itself) type of signal reflection, from the aurora borealis. The borealis is visible to the naked eye under the proper conditions--when it is easily seen, it is of course popularly known as the "Northern Lights." If you've never seen it before, it's a very impressive sight, shimmering and glowing, and even changing its fluorescent colors, not unlike a giant luminous "curtain" that spans the northern horizon. Depending upon how far north you are, it may appear to be overhead.

The auroral DX mode has been observed by TV and FM DXers since the 1950's. While TV DX loggings have been made, they are very rare, and usually involved using the TV audio to make a positive ID, rather than paying attention to the video, which is badly garbled into video "hash" by the wildly varying signal. The fact that a TV video carrier uses amplitude modulation doesn't help; FM signals survive the wild trip through the auroral curtain in much better condition, so it's no surprise that FM DXers have found considerably more success with this exotic DX mode.

Although distances of up to over 1200 miles, (2000 km or so) are possible via the auroral DX mode, the typical auroral FM or TV logging seems to be in the 300 to 800 mile range. Remember, however, that were talking about the straight line distance here; actually, the path that the signal takes is hardly a straight line, because the auroral curtain involved is usually well to the north of both the DX station and the DXer.



GET READY FOR AURORAL DX!

Auroral DX openings are dependent upon solar flare activity levels. As we approach peak sunspot activity, flares become more numerous and "energetic." During the larger solar storms that are more commonplace in high activity years, streams of high-energy protons and electrons are ejected from the Sun in increasingly larger amounts. Earth's magnetic field attracts these particles, and the result is highly energized ionization. The interaction with gases in that region of the ionosphere - actually in the vicinity of our beloved "E" layer - produces the visual "fireworks" we know as the Northern Lights. That same ionization is busy also reflecting DX signals. Interestingly, the intensity of the visual display doesn't always correlate to what's actually happening on the TV and FM bands, DXwise.

In general, northerly locations get into more auroral openings than most other regions. Good openings have been noted in the southern U.S. during peak years. In fact, visual displays of Northern Lights have been seen as far south as the Carolinas and Florida, but only very rarely. "Hot spots" of good auroral DX opportunities are places such as western Canada, the northwest U.S., Idaho, Montana, the Dakotas, Minnesota, Wisconsin, northern Michigan, northern New England, Ontario, Quebec, and the Maritime provinces. Because of the way that the geomagnetic latitude lines "warp" across North America, there are some interesting variations in activity. Thus, it is possible to have two places on the same latitude a thousand miles apart or so, one having many auroral openings, the other one rarely ever experiencing it!

It's a good idea to keep your TV and FM antennas pointed north this month, if you hope to get into auroral DX. A good log or yagi-type antenna is a must for decent results. Anything from one of Radio Shack's 6-element basic FM antennas to a stack of Stereoprobes will do; if your tuner is good enough to be able to log meteor scatter DX, then you're ready to catch some aurora. One sign that auroral conditions are "up" is the appearance of weak bands of "hash" lines on lowband TV starting to peak generally towards the north, sometimes reaching into highband. If you have a shortwave receiver, it will often cause voice signals on the 75-meter ham band to start to sound "watery" for a matter of hours before VHF starts to exhibit auroral activity.

Remember--keep that antenna pointed north at this time of the year. Auroral DX tends to peak around midnight and beyond, and can make for some interesting DXing. You won't soon forget the "wispy" sounding FM DX signals, sometimes two or three per channel, that can suddenly appear across the 88 to 108 MHz range during an auroral session. Good luck, and happy aurora hunting!

TIME FOR YOU TO RENEW?

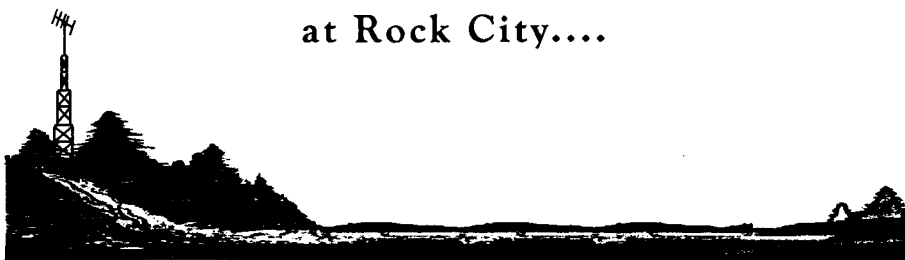
PLEASE NOTE THE NEW CLUB ADDRESS:

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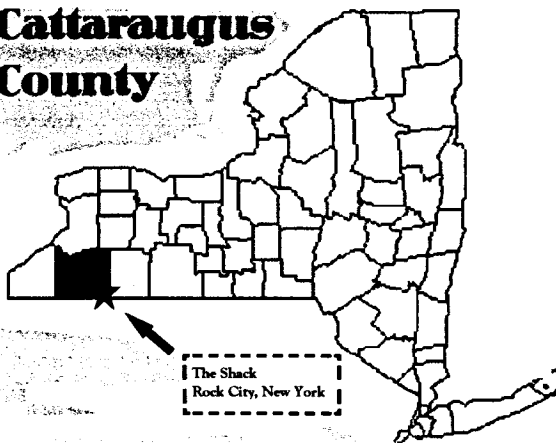
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Attend the 1998 WTFDA Convention in the hills of south-western New York State at Rock City....



Ho-Sta-Geh Road is only a short 7 1/2 miles from exit 26 of the "Southern Tier Expressway" (route 17) on Hartzfelt Mountain. Dx central is a rustic cabin on three wooded and quiet acres on the rim of the Allegheny Mountains. From a height of 2350 feet above sea level and with few high powered local stations; dx'ing can be quite interesting at times. Lucia's Motel and Supper Club is the official motel for the '98 WTFDA Convention. Call early to reserve your room; space is limited to only nine (9) units. Be sure to say that your attending the WTFDA CONVENTION, July 31st, August 1st thru 2nd.

Cattaraugus County



Area motels are:

**Lucia's Motel & Supper Club	9 units	rates starting at \$37/night	1-716-372-0039
De Soto (Best Western)	76 units	rates starting at \$40/night	1-800-325-0043
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All rooms are based on single occupancy; add 8% NYS tax.

**The official motel of the '98 convention.

Convention registration fee, \$25.00 -- goes toward Friday evenings pizza & wings, Saturdays Banquet and snacks/drinks. Send \$1.00 for an information packet (deductible if you register) to Dave Nieman -- 12284 Nice Road -- Akron, NY 14001-9408. Packet includes convention schedule, site maps, 'Greater Olean Area Events & Activities' and 'Shop The Olean Area' guides. More details in next months VUD!!

FMedia!

The FM Radio Newsletter

Bruce F. Elving, Ph.D., Publisher

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Subscribe to FMedia! as a DXer and save! It's the monthly newsletter that updates the FM Atlas. [You remember the FM Atlas, don't you? My (Bruce Elving's) 224-page book started as a DXing aid back in 1971 when I lived in Milwaukee WI, and when I was an understudy of the great Ferdinand S. Dombrowski, Jr., then club publisher.]

The book is still available, and is sort of a DXers' aid or dream. The current edition is \$18.50 postpaid--1997 copyright, and will be current for months to come.

Feel free to order that book, especially with the DXing season fast approaching.

Now to the subject of this blurb--my FMedia! newsletter.

Disregard the price you see at the top of this page. It is still only \$26 a year for DXers and others who are not in the media. It's packed with news on FM radio--the official and not-so-official stuff.

Many reporters and contributors help make this publication lively. FMedia! covers main stations, translators, pirates, stereo and SCS news--concentrating on regular coverage stations claim to have, but which is often hype--all of which ties in nicely with your reading of the VUD.

FMedia! has comments from readers in "FM Forum," and has features like "FM--As it Was or Might Have Been," and "Selected AM Happenings." It draws upon my 50

years' experience as an FM DXer, my having been an instructor in communications, and an industry consultant.

Subscribe at \$26 per year from PO Box 336, Esko MN 55733-0336, or charge card to 1-800-605-2219. I'll give you all 1998 issues plus bonus back issues. Back issues or samples are \$4.50 each.

And note that I offer modifications of FM radios to enable you to hear FM subcarrier programs, such as reading to the blind, ethnic programming and various muzacs. An FM DX tape is \$8, giving examples of receptions from Duluth MN and from Kearney NE.

I've found the WTFDA a big help in the DX hobby. Carol and I and thank you for your support. 73ily,

Bruce F. Elving