

# From The Staff:

WTFDA Headquarters, P.O. Box 97, Calumet City, IL 60409

**IT'S ALMOST TIME...**The first weekend in August will soon be here. Don't miss the 1980 WTFDA Convention in Dunkirk, NY! Host Bob Seybold plans to have several DX systems in operation for the event, and while he can't promise that there will be DX, it's almost a sure bet that those who attend will be treated to some great conditions, in an area that seems to feature some of the best natural VHF/UHF DX sites in the Northeastern United States. Plan to attend, and act now, by using the Convention Registration Form inserted in this issue. Mail the form to Bob Seybold, Bennett Road, RD 2, Dunkirk, NY 14048. Bob can be reached by telephone at (716) 679-1984 evenings. Our convention accommodations will be at the Vineyard Motel, located at Interstate 90 Exit #59. We'll have more details on the program next month. In the meantime, don't delay--let Bob know today if you plan to be there.

**YET ANOTHER SLOW E-SKIP YEAR?...**E-skip seems to be off to a slow start once again, as of late May, lending some support to the theory that Es patterns are significantly lower in years centering around a sunspot cycle peak. It's too early to reach any conclusions about the 1980 Es season, but we should have a better idea of what's happening by next month. In the meantime, at least, spring tropo conditions have been spectacular at times, particularly in the Gulf, the lower Midwest, and other southerly areas. Word of several super openings has been reaching us. Spring weather patterns are quite unusual this year, with large amounts of cold air continuing to flow from the northwest--causing violent storm activity in some areas, and unusually widespread inversions in others.

**1980 NEADKO...**The Fifth Annual New England DX Outing will be held on Sunday, September 7th, at Black Rock State Park in Watertown, CT. Almost every major DX organization is usually represented at this fine event, and it's a great place to meet DXers from all over the Northeast. NEADKO features an auction to benefit the Handicapped Aid Program. Contact: Sam Barto, 460 Emmett St., B-19, Bristol, CT 06010.

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WTFDA

# MAILBOX

John Zondlo  
1802 N. Rockwell, Apt. 107  
Bethany, OK 73008  
(405) 787-3717  
Deadline: 10th

### New Members:

Faul W. Buehler	405 Bellhaven Drive	Oregon, OH 43616
Bob Coomler	2420 Bonmark Drive	Wjai, IA 93023
Christopher Hanley	1125 Bolton St.	Winston-Salem, NC 27103
Steve Hendrix	Box 191	Cameron, MO 64429
Damon Hill	3261 Circle Oak Dr. NW	Atlanta, GA 30339
Dennis Jarrett	9 Debra Lane	Westport, CT 06880
Fritz Kunze	734 Stannage Ave.	Albany, CA 94706
Steven Miller	P.O. Box 46	Boston, MA 02125
Donald Swope	365 Chocolate Ave.	Mount Joy, PA 17552
William Wild	225 Post Ave.	Lyndhurst, NJ 07071

### Renewals:

Earl Albin, Bill Coleman, Jr., Clinton Day, Jerry Franklin, Jim Gill, Les Goins, Patrick Golembiewski, John Griffiths, James Herkimer, William Johnson, Neil Kazaross, James Kingsbury, Mark Lewis, Doug McAbee, Lowell McCown, Tim McVey, Rod O'Connor, Guy Ogden, Les Prus, Michael Rosen, Bob Seybold, Jeff Wolf, Robert Zent.

### Rejoin:

John Callarman-1122 Maple-Mt. Vernon, IL 62864

### Address Changes:

Michael J. Albanese-1104 S. Catherine St.-Altoona, PA 16602  
James Kingsbury-P.O. Box 445-Grantsville, WV 26147  
Mark Levitt-3132 Woodland Ave.-South Plainfield, NJ 07080  
Steve West-432 Kenmore Road-Havertown, PA 19083

### Renewals Due in July:

Mike Agner, John Anderson, John Barber, Jr., R.S. Broadhead, Fred Bstandig, Saul Chernos, John Clemmer, Bob Curole, Mike Dalton, John Ebeling, Robert Forsman, Tom Huehn, David Legler, Mark Levitt, Tom Little, Nick Lombardi, Mark Lucas, David Martin, Ian Meyers, Alan Michalek, K. Norffinger, Walter Patton, C. Hooper Phillips, Ted Pinski, Michael Porter, Loyd Reedy, Sherwyn Rosen, Craig Shura, Gary Siegel, Doug Talley, Robert Williams.

New member BOB COOMLER is a real estate appraiser who also belongs to NRC, LWCA, SPEEDX and NASWA.

From the Show Me state comes new member STEVE HENDRIX. He's an electronics engineer, and has call letters KAØDEK. Steve is into SW, UHF TV, and ATV (amateur TV?-jz). DX gear includes a Panasonic RF-4800, Kenwood TS-600, Bearcat 220, 6m receiver, a homebrew ATV receiver, and a homebrew 10 GHz transceiver.

FM is the main DX interest of DAMON HILL. He has a Heath AJ-29 receiver, a modified RF preselector, a Heath 75 ohm coax attenuator, a Channel Master 9512C rotor, and a Channel Master 4408G FM antenna (the Stereo Probe). He writes, "Emphasis is on high quality local and long range reception (WSMC in Collegedale TN). System past due for improvements. Need help with techniques in antenna construction and local front end overload and preselector design."

Good to have FRITZ KUNZE aboard! Fritz learned of the club in Bruce Elving's FM Atlas.

Beantown new member STEVEN MILLER says he's strictly a BCB DXer, but likes FM and shortwave. DX equipment in his shack includes a Panasonic RF-2200 and a Panasonic stereo receiver. Steven is also a member of NRC, IRCA, NASWA, SPEEDX, ASNLC and GWDXA.

Our final newbie this month is WILLIAM WILD, a director of music in a Lyndhurst area church. His list of gear is lengthy- Panasonic RF4900, Realistic DX 160, Aircastle 9 band receiver, Bearcat 210, RCA 25" TV, Siltronix CB, Palomar VLP converter, Wilson shooting star antenna, a Realistic 100' longwire, and a Realistic PSB antenna. As you can see, he's into a lot of DXing areas, hi.

## Tidbits.....

Let's start off this month by wrapping up our report from A.H. Wiese of West Germany: "Don't know if you have something like 'Eurofunk' in the states. It's a number of utility stations, transmitting around 87.3 MHz (and causing a lot of BCI, thus). If you have a special (portable) Eurofunk receiver with you, anybody can phone a certain number and you will hear on your advice up to four peeps. One peep, for example, tells you to go to the next telephone, two will tell you to come back, and so on, whatever you have fixed before with the guys who gave your number. This system is introduced in the whole of West Germany and in the northern and eastern parts of France. (Sounds like our pagers-jz)

At TV, they have installed 'Vidertext' on both national programs, but till now you can't buy decoders for it. I have seen this system working with a special TV set: with pushbuttons you can choose up to 100 pages to be displayed on the screen. As this system isn't introduced yet officially, all of the pages I chose were, except for the page number, totally blank. The second channel is experimenting with stereo audio: L + R are + or - 500 Hz apart of the sound carrier.

In West Germany it's strictly prohibited to receive radio signals other than the ones aired in the official bands. That means, you are allowed to buy an all band radio receiver with low-high-VHF and UHF or what you want, but you are not allowed to use this receiver. So, if I want to be within the law, I am not allowed either to DX eastern FM band (66-73 MHz) or f.i. channel A5 or A6, nor B1 nor F5 or 6, nor R3, 4, 5, nor any of the police or the other utility stations. I think they've never heard of something called a scrambler. Boy, DXing isn't easy here, but I'm trying!" Check earlier VUDs for other segments of A.H. Wiese's fine report. We'll likely have further comments from A.H. in future VUDs. Thanks, A.H.!

Good to have John Callarman back in the club! He writes, "When I last renewed my membership...in October of 1978...I informed John my wife had given permission to set up a good antenna system, at least for TV, to get us off the cable. So far, I've obtained a good heavy duty rotor to go atop the tower we inherited when we bought our home in 1970, but haven't yet bought my deep fringe VHF antenna nor my UHF dish that we've been talking about for some time. I even have a couple of daredevils here at the station (WMIX Mt. Vernon IL) who have volunteered to climb the tower and handle the installation for me. The move of Richard Wood to Cape Girardeau MO...within 100 miles of Mount Vernon...has also been a stimulus to high-band DXing...and I spent last spring and summer tuning occasionally on the FM bands (still with a TV antenna frozen toward St. Louis and a Fisher 220T receiver). Nearly all of my interesting stuff was tropo, but caught the tag end of one E-skip opening into Wyoming last spring. As a BCB DXer since 1947 and a part-time shortwaver since 1950, the FM-TV bands are relatively new to me (though I did log a few TV stations from the panhandle of Texas in 1962 or 63."

Next up, we have some thought provoking ideas from Tim McVey: "Allow me to start off this letter with a compliment before I start into the rest. I think WTFDA is a great club; it has helped me lots with my FM DX hobby and has introduced me to the fact that I'm not the only one crazy enough to DX FM (or TV). The VUD is good also- it seems to be a vast informal DXers forum in print (when it gets around to being printed! hi). The WTFDA has immense potential! However, I think a few small changes could enable the club to better serve DXers and make the VUD better. And, of course, this is why I'm writing this.

First off- and this should be obvious to everyone now- find another printer! Messrs. Bondo and Hogan 'exposed' our printer in the January VUD, and I herein, publically, denounce them: 'pooh on you.' My VUDs get a few days later every month. How can the VUD have timely news when it's forty days late? Hah? Surely somebody can print up our bulletin for 80¢ a copy!! (Punch it out on a calculator and add 28¢ postage and you see yearly dues...or else somebody is being ripped off...). Besides, WTFDA shouldn't have to beg to spend money.

Okay, now for the simple changes, to make our VUD look better, and save on eyeglasses and aspirin for headaches. I think that Bruce Elving should have at least 2 pages for his FCC FM News, especially through the tropo and E-skip seasons. We all know the print in his comments is always so small and is sometimes crammed into margins and corners. In November, the bottom was cut off. The news he reports is very important and the comments he puts in his column are very interesting. It, therefore, seems to me that Mr. Elving deserves more than one page.

(McVey, cont.) Inside the cover of the February VUD, 'The Staff' asked a question that men have asked for thousands of years: 'Can you draw?' Why just one VUD with a cartoon? Put one in the Mailbox pages every month! Now I can't draw too well, but surely someone out there does, right? So that's my thought on that. And if Mr. Hayes ever needs a humorous idea to draw a cartoon around, that shouldn't be too hard to get.

Another thing on the February cover was the mention of a TV QSL Guide. I have, for years, wished for a QSL address book for FM and TV stations. My personal feelings about the matter is that a book be published with both FM and TV station addresses, listed by state and city of license. It seems to me that this kind of project would be well worth the work and money. Also, such a project could involve all WTFDA members. HQ could ask each member to double-check the addresses in his area and send in updates.

Finally (whew!), why doesn't the WTFDA have DX awards and contests? Amateur radio operator's clubs have been doing things like that for years to promote ham radio to the general public and stimulate the ham into improving his hobby. The same can apply to WTFDA! An important event at the 1980 WTFDA convention could be a contest to see who could get the most FM (or TV or PSB) stations at one location in a set number of hours. A "100% Award" could be given when a DX'er has heard all stations in a state. And the list goes on..." Thanks for the comments, Tim. Allow me to make a few comments on them. The printer has been doing a reasonably good job of getting out the VUD, time-wise, except for the recent breakdown that caused a delay. Mike has been checking out other printers, but most quote a price nearly double what we're paying now. The quality of printing leaves a lot to be desired, also. Dues are based on what we expect to pay for printing, postage, and the cost of operating the club (sending out info on WTFDA, board correspondence, etc.), plus at least a dollar extra to help defray unexpected expenses (i.e., postage or printing cost increase) and to pay the initial cost of large printing ventures such as the TV Station Guide (set to hit print soon), Beyond Shortwave, and items such as an address list, plus mass mailings of club information. As you can see, there's a lot more to running a club than just printing a monthly magazine. If Bruce Elving wants two pages, or more, he can have them (and has had them in the past). I'm glad to see your comments on the address list. The board is still considering it, and should reach a decision shortly. Contests are difficult to stage in our hobby, because of the variance in reception conditions. For hams or SW or BCB DXers, the conditions are pretty much the same nationwide at the same time. But with FM-TV, one area could be having a super tropo opening, while the rest of the country can't hear anything but locals. DX conditions as far as terrain is concerned also vary greatly, making it difficult to set up a contest where everyone would have an equal chance. Awards should and will be considered. I like your idea of an award for logging all stations in a state. Anyone else with awards suggestions?

Radio West has a new catalog out. Although it features primarily shortwave-oriented gear, they do offer receivers with FM capability. Our thanks go to Radio West for distributing WTFDA information brochures with each FM-equipped receiver sold. For a copy of the new catalog, write Radio West, 3417 Furer Road, Escondido, CA 92025. Tell them you read it in the VUD.

Any of you folks in the Los Angeles/Orange County CA area like to get involved in a special project? KHNy 92.7 Riverside CA would like help in what they describe as a "special measuring project of our FM coverage." For information, write Al Gordon, GM, KHNy, 7351 Lincoln Ave., Riverside, CA 92504.

I often marvel at how WTFDAer Bob Cooper keeps up with his busy schedule. As you know, he's into satellite TV, and heads up a company called Satellite Television Technology. Bob has scheduled another satellite seminar in San Jose CA for July 4-6. He previously held seminars on private satellite receiving terminals in Miami and Oklahoma City. If you'd like more information on the Satellite Private Terminal Seminar, home satellite reception, or the publications his company puts out, write to Bob at STT, P.O. Box G, Arcadia, OK 73007.

The Handicapped Aid Program, sponsored by ANARC, is now putting out a quarterly newsletter, via ANARC Public Relations Committee chairman Jeff White. If you'd like a copy of the latest newsletter, which explains the function of HAP, write Jeff at 409 Laconia Lane, Schaumburg, IL 60193. Jeff, by the way, is the new shortwave editor for CB Magazine.

See y'all next month.....73.....jz

# PHOTO-NEWS

Jim Alexander  
4 Brook Court  
Parsippany, NJ 07054

June, 1980



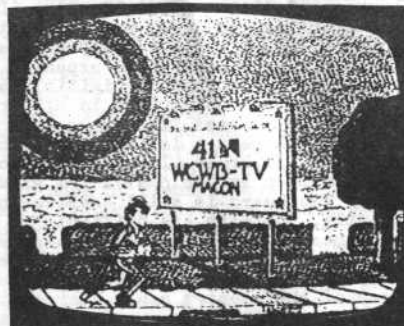
XHD- 4 Tampico TAMS, Mexico  
1,135 mile E-skip (Combs)



WESH- 2 Orlando, FL  
E-skip (Shults)



WBRE-28 Scranton, PA  
385 mile tropo (Gaines)



WCWB-41 Macon, GA  
320 mile tropo (Combs)



WNC- 5 Memphis, TN  
E-skip (Barber)

### Contributors:

- John Combs,  
Orlando FL
- Marv Shults,  
Toulon IL
- Paul Gaines,  
Detroit MI
- John Barber,  
Carolina RI

As another E-skip season is upon us, be sure to have your camera ready for whatever photos that may be had...

73 and good DX, *Jim*

# FCC FM NEWS

Bruce F. Elving, Ph.D., Editor  
4515 Avenue "E"  
Kearney NE 68847, U. S. A.

Reporters' names to be run next month!

### New Stations Authorized by FCC

CA Goleta 106.3 360 h.v.; 885'; m  
CO Hotchkiss K252AM \*89.3 (KNVF 90.9  
Paonia CO translator)  
NV Overton K280AV 103.9 (KSFJ 100.3  
Salt Lake City UT translator); S, r, 10 w  
Overton is located 36-40-54; 114-31-21.  
OK Owasso 106.1 100000 h.v.; 490'; c  
SD Philip K237AM 95.3 S, r (KGGG 100.3  
Rapid City SD translator); Y

On Air and DX Ready (partial list)  
KY Bardstown WOKH 96.7 3000 h.v.; 160';  
TN Chattanooga WUTC \*88.1 50000; 540'; cJ,  
National Public Radio, no stereo

### Facilities Changes Granted

CO Rifle K261AM 100.1 (from 107.1, K296BB)  
IA Storm Lake KAYL-FM 101.5 91000 h,  
54000 v; 400 feet [890']  
LA Baton Rouge WQXY 100.7 100000 h.v./  
NY Gouverneur WIGS-FM 95.3 3000h, v; 120'  
OH Cincinnati WWEZ 92.5 16000 h, v; 900'

### Program/Network Format Changes

CA Los Angeles KIIS-FM 102.7 rd  
CO Denver KBPI 105.9 r (not pr)  
HI Honolulu KDKK 97.5 r (from m); Duke-98  
KS Abilene KABI-FM 98.3 m (from r); no \$  
KS Garden City KBUF-FM 97.3 k (from r);  
apparently dropping stereo  
KY St. Matthews WRKA 103.1 Y, seldom  
uses its old nonID; FM-103

MI Jackson WBM-FM 94.1 r (from m); ABC-  
FM network, calls mentioned frequently  
MI Port Huron WSAO 107.1 r (oldies), FM-107  
MI Whitehall WTRW 95.3 k (from r); "country  
oldies"; nonID: Country-95  
MO St. Louis KCFM 93.7 back to m  
NE Kearney KDKY 105.9 r (not pr)  
NY Mount Kisco WVIP-FM 106.3 rj (jass 9 pm  
to midnight)

OH Cleveland WCSB \*89.3 jc, monaural  
WKSW 99.5 k (from m)  
OH Fairfield WLTV 94.9 to go r (from m)  
OH Middletown WPB 15 105.9 r (was dg)  
OR Albany KRKT-FM 99.9 l  
OR Eugene KUGN-FM 97.9 l  
OR Lake Oswego KMJK 106.7 r  
OR Portland KXL-FM 95.5 m (was mc)  
KJJB 99.5 k  
KQFM 100.3 T  
OR The Dalles KCIV 104.5 mc  
TN Chattanooga WUTC (see above), said to  
be relaying WUOT \*91.9 Knoxville TN  
WA Longview KLYK 105.5 T (from A)  
WI Waukesha WMIL 106.1 (off air) to be m

### Deleted?

OR Gresham KMHD \*88.5 never was on, and  
school levy failed.  
NonIDentifications  
CO Denver KHOW-FM 95.7 FM-96 (strict)  
IL Lockport WLRA \*88.1 88-1 FM (strict)

### Stereo Stations

AR Benton KAKI 107.1, k, AP Audio  
HI Hilo KFSH 97.1 (to be on early 1981)  
IA Council Bluffs KJWR \*89.7 (to be on 1-81)  
KS Wichita KDSA \*91.1 mg; "Stereo-91"  
KY Bowling Green WKYU \*88.9, jc, P  
MI Charlevoix WKHQ 105.9  
MN Crookston KDWZ 97.1 r; strict: FM-97[  
NE Aurora KJAE 103.1, r  
OK Edmond KOKF \*90.9, rg  
OK Hobart KQZT 105.3, KQ-106  
OR Portland KPDD-FM 93.7 (Seaside 97.7, too)  
PA Jersey Shore WYBT 97.7  
TX Dallas KVTT \*91.7  
VA Tazewell WTZE 100.1

### Not Stereo

IL Flossmoore WHFH \*88.5  
OR Portland K800 \*90.7

### Off Frequency:

MN Fergus Falls KBRF-FM 103.3, heard  
slightly below 103.1

### Call Letters Authorized

CO Gunnison 98.3 KVLE  
CT Willimantic \*90.1 WECS  
FL Fort Lauderdale 106.7 WEWZ (WSDO)  
HI Kailua 96.3 KJYE (KKAII); m, FM-96  
and K-Joy nonIDs used extensively  
IN Linton 93.5 WQTY (WBTO-FM); now  
stereo, CBS; FM-93 and "Cutie"  
IA Fort Dodge 92.1 KSMX (KTGA)  
KS Derby 95.9 KGCS (KORB), k  
KS Winfield 105.5 KWKS  
KY Fort Knox 105.5 WWKK (WSAC-FM)  
ME Rockland 93.5 WMCN (WRKO-FM)  
MN Duluth 94.9 KQDS-FM (KAOH-FM); rp  
MN Rochester \*88.5 KFSI  
MN St. Louis Park 104.1 KRSI-FM (KFMX)  
MS Belwyn 95.9 WESE  
NE Omaha 104.5 KESY-FM (KESY-FM)  
NM Alamogordo 94.3 KKEE  
NM Artesia 92.9 KTZA (KSVF-FM)  
NY Patterson 105.5 WRVH  
OK Clinton 106.9 KKCC-FM (KWDE-FM)  
OR North Bend 100.9 KOOS  
TN Savannah 93.5 WKWX  
TX Bishop 107.1 KFLZ  
TX Monahan 99.9 KGEE  
TX San Angelo 94.7 KIXY-FM (KIXY-FM)  
VT Saint Albans 102.3 WLFE (WWSR-FM)  
VA Louisa 105.5 WLSA  
VA Williamsburg 96.5 WBCE-FM (WBCE)  
WA Moses Lake 100.3 KWIQ-FM (KFMT)  
WA Tacoma 106.1 KRPM-FM (KLYA)  
WI Ripon 95.9 WYUR-FM (WCWC-FM)

### Program/Network Format Changes

CA Los Angeles KBIG 104.3 tX (no ethnic)  
HI Honolulu KQMG 93.1 no SCA  
HI Wailuku KADI 95.1 no SCA  
HI Waipahu KULA 92.3 no SCA  
IL Monticello WVLI 105.5 add SCA  
IA Spencer KICD-FM 107.7 tX  
CA San Diego KEZL 102.9 no SCA  
NV Las Vegas KEND-FM 92.3 tX (tone)  
NV Las Vegas KLUC-FM 98.5 no SCA  
NV Las Vegas KFMS 101.9 music  
MN Grand Rapids KAXE \*91.7 no SCA  
MN Pipestone KLOH-FM 98.7 talking  
farm news  
MN St. Cloud WWJD 98.1 no SCA  
MN Worthington KWQA-FM 95.1 tX  
NE Omaha KEFM 96.1 tX  
OR Portland KLLB 101.1 no SCA

### SCA [67 kHz] Activities

CA Los Angeles KBIG 104.3 tX (no ethnic)  
HI Honolulu KQMG 93.1 no SCA  
HI Wailuku KADI 95.1 no SCA  
HI Waipahu KULA 92.3 no SCA  
IL Monticello WVLI 105.5 add SCA  
IA Spencer KICD-FM 107.7 tX  
CA San Diego KEZL 102.9 no SCA  
NV Las Vegas KEND-FM 92.3 tX (tone)  
NV Las Vegas KLUC-FM 98.5 no SCA  
NV Las Vegas KFMS 101.9 music  
MN Grand Rapids KAXE \*91.7 no SCA  
MN Pipestone KLOH-FM 98.7 talking  
farm news  
MN St. Cloud WWJD 98.1 no SCA  
MN Worthington KWQA-FM 95.1 tX  
NE Omaha KEFM 96.1 tX  
OR Portland KLLB 101.1 no SCA

### Abbreviations this Column

\* Educational station; h is horizontal effective radiated power in watts; v is vertical effective radiated power in watts. Numbers like 95.9 are FM station frequencies in Megahertz. Music codes: c classical, g gospel, j jazz, k country, m middle of the road, p progressive rock, r rock, s soul. Networks: E American Broadcasting Co. Entertainment, I ABC Information, M is Mutual, P National Public Radio, T is the National Broadcasting Company's The Source, U United Press Audio, Y ABC Contemporary, Z Sheridan Broadcasting Network. And, oh yes, B stands for the RKO Radio Network—and please look out for and report stations having this web to this column.  
FM-Frequency modulation. † stands for a station having an SCA or Subsidiary Communications Authorization for 67 kHz. SCA tX means a station having a steady tone, teleprinter noise, etc.

Listen for DX, note changes in your locals, and report to this column!

### Readers' Reports and Comments

WBFG 98.7 Detroit, which is being sold and will lose its g format, is expected to go off the air a minimum of 40 days. Detroit area DXers—check the 98.7 area of your dial for DX when this happens!

There is no SCA in Hawaii, but KAIM Honolulu 95.5 is planning to start one as a backup for its AM studio to transmitter link; this SCA would be on only during emergency periods.

KFKX 101.5 Gregory SD expected to be on the air in July, will have some Indian Sioux programs, and a tX SCA. Heard in North Dakota, and on the air and DX ready is CBK4-4 Bellegrade, Sask. 91.9, with a mono signal; this is a French station with 4700 watts (h) at 347 feet above average terrain. Ralph Strobel says "I'm fortunate we don't go on daylight saving time. Now that OH is an hour ahead of us, I have a better chance of finding a station before the locals and semi-locals come on the air Monday mornings. I lose a great deal of sleep because of this! Why is it taking so long to get the new FM Atlas out to us?" Printing takes about three months, with the plates reduced, new artwork added, etc. Hopefully, the book will be ready by the time you read this.

Significant Increase in Available FM Channels Proposed by the FCC. The FCC has proposed allowing Class A stations to operate on Class B and C frequencies.

To allow two new classes of stations—Class B1 with 20 kw at 92 meters above average terrain, and Class C1 with 100000 and 305 meters. To permit Class B (including B1) facilities in Zone II (the whole country, excluding the northeast and most of CA). To require all existing Class B and C stations to meet certain operational minima for power and antenna height or be subject to reclassification to a lower class of channel. A similar requirement is also proposed for new Class C authorizations that would allow for a new Class C assignment to start initially with Class C1 facilities. And to adopt a new mileage separation table, to reflect the updated FM propagation curves (which has not been published). This could create a lot of new DX targets, but also more local and semilocals at shorter distances to each other, thus making reliable long-distance tropo DX quite difficult.

Finally, the FCC has proposed an inquiry on streamlining rules to expedite the processing of requests for assigning new FM channels to different cities. This proposal would result in: abandoning of population guidelines in Table of Assignments cases, a new look at preclusion standards and procedures, and revision of the policy whereby the FCC refused to assign a channel to a community in order to avoid a hearing for the one available channel. This could possibly open the door for DXers and others not interested in starting a station to request their home town having a channel assignment, so that at a future date a channel might be ready, although subject to the need for a channel by an applicant who would be ready to apply and provide service promptly.

# NORTHERN FM-DX

Ralph Strobel, editor  
2510 E. McGalliard Rd.  
Muncie, IN 47303  
(317) 835-3115  
Deadline: 10th

June 1980

For FM DXers in Canada, the Northern - Midwest section of the ID, WJ, MD, SD, NE, MN, IA, MO and states east of the Mississippi River is the focus of the John-Nixon Line.

John M. Sulak - 1272 ft. scenic overlook - Interstate 84 - Port Jervis, NY  
(Temporary Address) Equipment: Panasonic portable RF1004 with builtin whip antenna.

3/23 tr approx. 1430 p.m.  
WIFI 92.5 PA Philadelphia 95  
WMMR 93.3 PA Philadelphia 95  
WZZC 95.1 PA Bethlehem 60  
WPIX 101.9 NY New York 60  
WQJB 103.9 NY Rensselaer 105

Philadelphia and NYC stations were weak because the mountain blocked them. WQJB at 105 miles was in the north-northeast direction without any visible obstructions in the way. Reception was like a local station. I believe I got other Albany area stations but no ID's.

\*\*\*\*\*

William R. Hepburn - 9555 Highland Ave. - Niagara Falls, ON, CANADA L2G 4X2

I am 17 and have been a member of WTTDA for three years. Although I am quite an avid TV DXer, I have only recently attempted to DX FM. I was hesitant to start FM DXing because of the number of non-IDers identifying themselves as FM-108, etc. (I was sure I'd get bored fast.) But now I see that FM stations are as easy to ID as AM stations are. I started keeping a log on June 1st, 1979. I use a portable GE 6-band monitor with a 31" whip. Although it has a rated sensitivity of better than 20uv (OK for what DXing I do), I still receive many semi-locals quite strongly with just a whip. The farthest full-time station being CBE-FM 89.9 Windsor at 205 miles! The tropo on 9/04 and 9/12 was great on FM but not so hot on TV. Maybe it's about time I changed the TV transmission line! Anyway, below is my report for August/79 to March/80.

8/22 tr	9/11 tr		
0841 CJOH 88.7 ON Windsor 205	2351 WICU 97.3 NY Ithaca 142		
9/04 tr	9/13 tr		
2330 WMBI 90.1 IL Chicago 460	0003 WBRE 98.5 PA Wilkes-Barre 210		
2330 WPNB 89.3 WI Green Bay 460	10/30 tr		
(both tied for farthest tropo ever)	2248 WANC 90.3 NY Albany 275		
2330 unID 91.9 MI Mt. Pleasant ment.	1/15 tr		
9/11 tr	1558 CKMX 101.7 ON Wingham 120		
2159 WBSF 95.7 NY Olean 72	2322 WVOF 100.5 NY Rochester 73		
9/12 tr	2341 WSKG 89.3 NY Binghamton 175		
0823 WDUQ 90.5 PA Pittsburgh 190	1/18 GW		
0838 CFPL 95.9 OH London 104	2355 CKLA 106.1 ON Guelph 69		
1202 WQED 89.3 PA Pittsburgh 190	(rx after APC-defeat switch installed)		
1449 CIGL 97.1 ON Belleville 115	1/19 GW		
2300 WANU 88.5 DC Washington 315	0004 WJSE 93.3 NY Jamestown 67		
2313 WVIA 89.9 PA Scranton 210	1840 CJBC 96.5 ON Penetanguishene 130		
2320 WGBI 101.3 PA Scranton 210	(CJBC-19)		

Log totals: 69. 1 prov., 8 states + DC. (Should increase once I go after FM-Es this summer.) I hope these lousy early spring conditions improve soon!

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John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431  
(All DX from the cabin at Prosit, MN)

As I sit out at the cabin and begin this "report," it seems we are in two kinds of recessions - economic and DX. We, in the upper midwest, have been under a series of high pressure areas, been hot and very dry, but FM has been lousy for the past three weeks - right at what should be the start of the Es season. I have been at the Prosit, MN cabin the past two weekends, had the TV turned on almost all the time to vacant CH. 2, but no Es noted at all both weekends!! Hope other areas of the country fare better than Minnesota has so far. Only thing to report is a "little" tropo where I managed to snag a WI station at Prosit over usually dominant KTWN Anoka, MN. Anyway: (Times are CST)

4/27 tr 1300 WRHN 107.9 WI Rhinelander, local news, then ID.

continued:

NORTHERN FM DX

John Ebeling cont'd:

JUNE 1980

Another wierd off frequency reception noted earlier this AM:

5/4 tr 0100 W269AB 101.9 MN Babbitt, S-WAUK-FM Duluth  
Heard on 101.9, not 101.7, which had WGR's XLTR W269AA on 101.7. Next to Babbitt was 102.1, KEKY-FM Minneapolis. Babbitt was right in between. Will go in log as 101.9 logging, even though 101.9 is class B/C channel. Anyway, that's it from me for this month. Next month I hope to have more.

\*\*\*\*\*

Bob Zent - 1835 Fruit St. - Huntington, IN 46750

Equipment: Pioneer TX-9800 and Heath AR-1515, with Channel Master 4408 at 40 feet.

4/7 tr	4/15 tr		
2243 WETS 89.5 TN Johnson City, j 360	2302 WFPN 88.5 WV Charleston, ID 265		
4/8 tr	4/19 tr		
2144 KTJJt 98.5 MO Farmington, o/WACF	2025 WDNL 102.1 IL Danville, r 125		
4/10 tr	"D-102"		
0012 WAKO 103.1 IL Lawrenceville, ID 200	2037 WMRV 101.1 IL East St. Louis, j 295		
0020 WRKA 103.1 KY St. Matthews, r 190	2341 WWCY 105.7 IL Peoria, r 240		
	(ex-WNUU)		
0021 WHKC 103.1 KY Henderson, r 240	4/21 tr		
"KC-103 - Your Album Station"	0640 WVCS 91.9 PA California, r 295		
4/11 tr	2203 WHBC 94.1 OH Canton, Boston Pops 210		
2212 WMRT 88.3 OH Marietta, c, ID 240	5/1 tr		
t = tentative, new underlined	2307 CBCL 93.5 ON London, English 260		
	2335 CJBC 99.3 ON London, French 260		
	73s, GB		

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Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303

Equipment: Heath AJ-1510, Winegard Antenna w/rotor at 60 ft.

2/27 tr	4/26 MS		
0094 WELA 104.3 OH East Liverpool 250	0200 WPUV 90.7 NY New York City 600		
3/28 tr	4/27 tr		
0200 WDZZ 92.7 MI Flint, r\$ 210	0503 WLGK 98.3 OH Logan, nx, mono 165		
3/29 tr	4/30 MS		
1915 WDLN 89.3 IL East Moline, g\$ 300	0010 KWLW 93.9 TX San Angelo 1100		
4/11 tr	0110 WWSL 93.9 FL Miami Beach 1100		
2300 WUTC 88.1 TN Chattanooga, cj 360	5/1 tr		
4/17 tr	2305 WOKH 96.7 KY Bardstown, s/off 200		
1108 WHFH 88.5 IL Flossmoor, r, 10w/155	5/5 tr		
4/21 tr	0415 WZZC 101.3 IL East Moline, k\$ 300		
0300 WCSB 89.3 OH Cleveland, 10w! 200	WRIA off "Double Z-101"		
0540 WVCS 91.9 PA California, rp\$ 310	5/6 MS		
4/25 tr	0328 WWSL 93.9 FL Miami Beach 1100		
0510 CJBC 92.7 ON London, k\$, BX-93 275			

--- = new mode, all others new.  
The morning of April 21st produced a fantastic opening. Chicago, Detroit, Cleveland, and all stations in between were heard like locals. WCSB, Cleveland State's 10 watter on 89.3 makes my 29th 10 watt station heard and taped. At times, WCSB was almost perfectly clear. A relog, WSHJ in Southfield, MI at 88.3 was holding stereo with 125 watts. Tower height is 43 feet! I suspect WHFH Flossmoor, IL on 88.5 is no longer 10 watts, as I'm now hearing this station on a regular basis. Three weeks ago I wrote WHFH and WCSB for QSL's, sending a SASE. As yet, no reply from either station. Who says April and early May are poor dates for MS? The December and January showers produced no ID's, but better luck occurred recently. From 90.7 WPUV, I heard this: ...in the Bronx, New York City, WPUV... (Calls barely good enough to count.) 93.9 in San Angelo produced ...FM-94-KWLW... Two MS's were heard from Miami Beach 93.9. First heard: ...and pretty chilly. Temperature right now about 65 degrees in most areas of South Florida... The second MS from WWSL gave me: ...Love-94-WV... Both KWLW and WWSL have been previously heard via Es.  
Much thanks to all DXers contributing to this column, but how about some reports from you guys out there in the northwest? Anyone in my home state of Idaho ever listen to the FM band? If so, see if you can snag KIOB 103.1 in Coeur d'Alene, my beautiful home town! Let me hear from you. Perhaps we'll have more reports if and when the Es season begins. In the meantime, keep your ears open! Finally got my log total up to 831, with 196 from the Ed. band. Good luck to all.

\*\*\*\*\*

73, Ralph

# SOUTHERN FM DX

Danny Buntin, editor  
1312 N. Skyline  
Stillwater, OK 74074

DEADLINE: the 10th

## LOOKS LIKE ANOTHER SLOW START FOR A NEW SEASON

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Mar. 5 to May 5 CST  
Equip: Realistic TM-1001 into Allied 426, Archer 6-el. FM antenna at 20 ft. w/rotator

3/8 (all tr)		3/17	
0236 KRMD 101.1 LA Shreveport	350	0411 KTAL 98.1 TX Texarkana, ID	380
0245 KEPT 96.5 LA Shreveport, ID, g		(locals 92.9, 96.1, 99.5, 106.3 all off but	
0250 KRCK 94.5 LA Shreveport, ID, r		nothing gained by it.)	
0719 KSLI 96.9 LA Alexandria, ID	385	4/7	
		0105 KSNS 96.1 LA Lake Charles, ID	325
3/10		4/16	
0546 KNUE 101.5 TX Tyler, ID	275	0149 WAFB 98.1 LA Baton Rouge, ID	450
0635 KHLB 107.1 TX Burnet, ID	90	0155 WYNK 101.5 LA Baton Rouge, ID	
0735 X??? 105.5 Coahuila, Mexico		4/29	
		0715 KITE 105.5 TX Portland, ID, m	135

Though some good trop on the TV (Mar. 8 into Ark., and an isolated FL UHF on Apr. 24) little out-of-state noted on FM. The Es season at this point is looking a lot like 1969 with almost nothing even on the TV in April and very little so far in May. 73

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - April 6 to May 7 CST/CDT

4/6 (all tr)		4/23	
2359 KTYN 93.3 OK Ada, m, ABC Y nx, s/off		0747 WSJC 107.5 MS Magee-Mendenhall	
4/7		0815 WRPM 107.9 MS Poplarville, ad, ID	
0057 KMOD 97.5 OK Tulsa, local nx, p		4/24	
"The Rainbow Station," KWTX off		0019 WOWW 107.3 FL Pensacola, wx	
0059 KWGS 89.5 OK Tulsa, j, s/off		0032 WNOE 101.1 LA New Orleans, r	
0103 KBZ 92.9 OK Tulsa, "Parenting Plus,"		0717 WKSJ 94.9 AL Mobile, ad, Cash	
"Byline" pub. affairs pems., ID w/KAKC		Countdown promo	
followed by "The Beautiful Classics Hour"		0718 WPCS 89.3 FL Pensacola, address to	
		send donations	
0133 KRAV 96.5 OK Tulsa, "FM-96,"		0721 WKRQ 99.9 AL Mobile, wx, "g-100", r	
"Tulsa's Best Music"		0745 WMEZ 94.1 FL Pensacola, m	
0158 KDSQ 101.7 TX Denison-Sherman, "Q-102"		0809 WRPM 107.9 MS Poplarville, ad	
0159 KJIL 104.9 OK Bethany, AP nx, g		4/30	
0301 KXXY 96.1 OK Oklahoma City, p,		0659 WQXY 100.7 LA Baton Rouge, ID, nx	
"96-X", KMFM off		0701 WWL 101.9 LA New Orleans	
0304 KATT 100.5 OK OKC, p, "The CAT"		0702 WKSJ 94.9 AL Mobile, KSJ nx	
0730 KLPQ 94.1 AR Little Rock, KAAV &		0705 WBLX 92.9 AL Mobile, National Black	
"KQ-94" ID, "The Ray & Ram Program,"		Net. nx, ID, s, "X-93 is the Beat of the Bay"	
r instead of p		0711 WXEM 102.7 FL Milton-Pensacola, psa, k,	
0739 KWGS 89.5 OK Tulsa, wx, ID		"X-102"	
(some fog, cloudy skies)		0715 WRPM 107.9 MS Poplarville	
4/15		0720 WKRQ 99.9 AL Mobile, wx	
2359 KXXK 106.5 TX Galveston, ex-KUFO, r		0730 WPCS 89.3 FL Pensacola, ID, wx	
4/16		0804 KQKI 95.3 LA Bayou Vista, UFI nx, ID, k	
2345 WQXY 100.7 LA Baton Rouge, m, "FM-100"		0821 KRVS 88.1 LA Lafayette, ID, p	
2349 KSMB 94.5 LA Lafayette, ad, "K-94"		5/1	
4/17		0144 WWL 101.9 LA New Orleans	
0041 DJ at WAFB 98.1 mentioned receiving a		5/6	
call from a listener in San Antonio and		0059 XEEW 97.7 TAM Matamoras, s/off, p, \$	
asked others to call in.		2359 WWBA 107.3 FL St. Petersburg, m	
0138 KAJN 102.9 LA Crowley, g, "Agape Radio"		5/7	
4/22		0120 WYNF 94.9 FL Tampa, psa, ad, wx,	
0029 KITE 105.5 TX Portland, Corpus Christi		"Y-95"	
wx, ID, new, m, \$, studios in C. C.		(Nothing else beyond New Orleans, thunder-	
0721 KMBQ 93.7 LA Shreveport, ad, "KMBQ		storm activity here.)	
Cash Card," strong CCI from KLBK & KRLY but			
better by 0800			

April's reputation as the best month for Gulf tropo was once again shot down, as all openings here were confined to under 700 miles. However, six new stations were added and all except KITE & XEEW had been eluding me since I began DXing. The poor showing was partly attributable to the unusual spring weather. The coldest day of the year was March 2 and the only real snowfall occurred on April 13; the latter event was highly unusual, cont.

SOUTHERN FM DX

-Samford, cont.-

JUNE, 1980

for this location, which is situated slightly less than 200 miles from both the Gulf and the Mexican border.

During the April 24 trop session I was reminded again that bigger is not always better. As the time neared the top of the hour (0100) I was preparing to tape WNOE's legal ID. Unfortunately, tr from Houston regular KL0L had grown so intense that it couldn't be nulled to reveal WNOE with much legibility. Out of desperation, I tuned my \$40 Radio Shack portable to 101.1, and, after some experimenting with the whip, found a respectable (but with some CCI) signal from WNOE which held up long enough for me to tape the ID. A similar situation occurred last Dec. 19 when rare WYLD 98.5 was heard much earlier on the portable than on the Kenwood; the latter would initially only bring in my trop pest KHYS. The WNOE logging means that I've now heard all 36 stations in LA with greater than the maximum Class A ERP of 3 kw, with all of these more than 250 miles distant. These 36 include two ed. stations WWNO & WRKF plus KTAL 98.1, whose xmtr is located in LA.

Randall B. Clark, Rt. 9, Box #231 (Dutch Ridge), Parkersburg, WV 26101 - Apr. 12 to May 5

Equip: Realistic STA-42, with a 3 foot twin lead up at 45 ft. AGL inside, One mile from mighty 50 kw WXIL 95.1 (UGH!). EST & EDT used. PH#: 304/422-2923

4/14 (all tr)	4/17
1521-1727 WXIL's off providing me w/nearly	2305 WSLQ 99.1 VA Roanoke
2 full hours of blissful silence!, hearing	2322 Someone mentioned on WVAF they were
WYTK 95.3 in plus unID newscast on 95.1	Virginian, being heard 125 miles away, so
(under WDBN)	tropo was fairly up.
4/17	4/21
2208 WYTK 95.3	0938 WMBI? 90.1 IL Chicago
2300 WUPR 94.9 VA Roanoke	0950 WTRE 107.3 IN Greensburg

In all of my 2 1/2 years of FM DXing I've never heard such ROTTEN conditions!! Paul Mount says he has not heard a new station in 6 1/2 months--oh well, one can always bet on some skip to appear later this month (May).

Thanks go out to Neil Dickerson of Sharptown, MD for all the stickers, etc. I recently visited Charleston, WV for a wedding and while down there I toured the various stations including both of the TV stations. I met a possible new member of WTFDA at WQBE 97.5. He does some meager FM DXing, etc, so I look forward to bringing in my second member to the club! WQAW will change format 5/7 to "Beautiful Music" according to sources very close to WQAW. Wishing to each a great DX season!

REPORT YOUR FM DX TO THIS COLUMN IF YOU ARE FROM: AL AR AZ CA CO DE FL GA KS KY LA MD NC OK SC TN UT VA WV.

**MPR**  
MINNESOTA PUBLIC RADIO, INC.  
400 Sibley Street/St. Paul, Minnesota 55101

**wplb**  
GREENVILLE 1380 AM 107.3 FM  
Box 99  
Greenville, Michigan 49836

STEREO-103  
WKFR

MICHIGAN NATIONAL  
BANK BUILDING,  
BATTLE CREEK, MICH.  
ZIP 49017

RADIO STATION  
**WDFP-FM**  
95.3 mhz

P. O. BOX 17  
14948 6 1/2 MILE ROAD  
BATTLE CREEK, MICHIGAN 49016

**WRWC**  
103 fm

BOX 345, ROCKTON, ILL. 61072





Steve West cont'  
 28 Tr 0830 KHTV-39 TX 800 28 Tr 0830 WGLR-43 AL 250 March  
 Houston Louisville 7 Tr 0900 WETV-30 GA 300  
 Atlanta

Bert Brain 3406 W. Pierce Chicago, IL 60651 (CST/CST) (314) 235-5188  
 April 21 Tr 0535 WKRC-12 OH 250 70 Tr 0637 WFBO-42 OH T  
 6 Tr 1050 WGVV-24 WI 90 WYLL-11 OH 220 0651 WIX-19 KY 255  
 Milwaukee 0540 WAKR-23 OH 307 a.  
 20 2130 WUSI-16 IL 219 WOSU-34 OH 250 3 Tr 0815 WJLA-19 MI  
 21 0530 WLIO-35 OH 200 0637 WGET-46 OH 250 0819 WKBD-50 MI 240

"It appears I'll be moving somewhere about the 15th of June, so try to get the reports for the August issue out as soon as possible. Beginning with the August issue, I will not print any reports that are over 6 months old. I think June is a little late for reports from last fall. Also, please don't report an UnIDed on a channel unless you give me a network. Program details should be sent to the CCI column, not to this one. So far, not a sign of skip (May 10). I wonder where it is. Not much in tropo either. Since I am completing a year as Eastern TV DX editor I guess a reintro is in order. I am 27, single & work as a bureaucrat in the payroll dept. at the Census Bureau here in Chicago. My TV totals are 364/260, states 36/35, provinces 6/6 countries 8/4. I also DX ECB (my main band) & SW. In addition to DXing, my interests are comedy writing (mostly satire and parody), classical music, jazz, collecting radio station junk, photography & collecting political buttons. My TV equipment consists of a Sony TV-131 13" & an RCA 19" both B&W portables, Archer V-185 & V-125 VHF-FM antennas, an Archer U-100 UHF antenna, 2-4 bay bowties, An Archer Servo-rotor, a 36' telescoping mast, & a Blonger-Tongue CMU-14-59 UHF pre-amp. Also assorted Winegard, Jerrold, & Radio Shack traps used to eliminate the spurs that result from being 3 miles from the Chicago XMTRs. Currently the rotor & 36' mast are not up (as well as the bowties & V-125) in anticipation of my move. I am using the V-185 & U-100 with 15' of mast (about 45' above the ground)."

# WESTERN TV-DX

June 1990

Fred McCormack  
 Box 5221  
 State University Stn.  
 Fargo, ND 58105

Deadline: 5th

New \_\_\_\_\_ New Mode \_\_\_\_\_ Tentative - t Unidentified - unid

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78223 CST

Equipment: 1976 9" Penncrest b&w, Archer V-100 & 8-bay bow-tie UHF array at 20'

March 1990  
 8 tr 0659 WLPB 27 LA 450 16 tr 0625 WMAU 17 MS 470  
 3 tr 0015 KETS 2 AR 515 KLAAt14 LA 430 0629 KLFY 10 LA 395  
 0029 KETQ 9 AR WAPtt16 MS 525 0641 WMAH 19 MS 570  
 0146 KATV 7 AR 515 WRBTt33 LA 450 0725 WAPT 16 MS 525  
 0150 KTV 10 AR 435 11 tr 0045 KALBt 5 LA 385 22 tr 0740 KLAAt14 LA 430  
 0214 KFDM 6 TX 275 0105 unid 7-10 Mexico 23 tr 2320 WGNt26 LA 510  
 0216 KTBS 3 LA 350 April 1990 WLPBt27 LA 450  
 0218 KNOE 8 LA 440 2330 WRBT 33 LA 450  
 0532 WAFB 9 LA 450 4 Es 1625-1750 unid 2,3 se 24 tr 0045 WAFB 9 LA 450  
 0635 KLFY 10 LA 395 7 tr 0820 KLAAt14 LA 430 0059 WJKS 17 FL 1015  
 0655 KLTS 24 LA 350 16 tr 0620 KPLC 7 LA 325 29 E9 2259 unid 2 ne  
 0625 WRBT 33 LA 450 (maybe long ms burst?)  
 WGNt26 LA 510

An ominous lack of much Es in April reminds me of 1969. March 4 had 90 min of Ch B-1 BBC video (45MHz), first since 16 Jan. April 13 11430 got part of a pix (frame bar, etc.) of New Zealand Ch-1 (45.25 MHz) with the same set-up (but a lot of slug-tweaking and vert/horiz. osc. adjustments). April 24 Florida UHF in without much else indicating it should be. 73, Pat WA5IYX

Fred McCormack, 909 12th St. N., Fargo, ND 58102

Another uneventful month. I have however, seen some traces of Es. Short duration Es was noted the morning of May 3 and again around midnight that day. Here next time.

# QSL CORNER

Thomas J. Vingling, Jr.  
 521 Pinewood Road  
 Altitude, CO 80222

NTAS 102.3 Beecher, 3314 Chicago Dr., South Chicago Heights, IL 60476. Verif-lettr & ch. bumper-sticker from Anthony Santucci, 51. Realy took 5 months! Boesna  
 WMOO 95.9 Clinton, Box 140, 45077. Sent xerox copy of nsl card & my prepared letter form from James Lippie Lippie, 51. Eddie  
 WTL 95.3 Pantoull, Box 140, 45077. Sent prepared letter form, signed name in un-recognizable. Eddie  
 WYVO 95.0 Aurora, 1894 Main Ave, 60505. Send back my prepared form letter signed by Russell G. Salter, Pres. Eddie  
 WYUC 97.3 Ft. Wayne. Letter with program details letter from Jim Schweickart, 51. Realy back in 2 weeks. Ross  
 WYUC 97.3 South Bend. Card signed by Russ Summerville, CE in 2 weeks. Ross  
 WYUC 97.3 Anderson, P. O. Box 151, 2003 W. 53rd St, 46015. Send letter from & CD from Brian C. Hood, Tech. Dir. WYUC. Eddie  
 WYUC 107.5 Terra Haute, 1301 Ohio St, 47807. Send letter from Jerry Probst, CE. Eddie  
 WYUC 99.9 Salem, Radio Ridge, 47167. Send back my letter form & CD from Darrell E. Nixon, CE. Eddie  
 WYUC 88.9 Richmond, Eastern KY Univ., 40475. Got nsl card from Loy D. Lee, Asst. Manager & Tonic Coord. Realy in 2 mos. He says he's a member of NASDA & he found my log had nsl dx quite interesting. Clark  
 WYUC 97.5 Louisville, Box 1084, 40202. Send my prepared letter form with v/s of Charles R. Strickland, CE. Eddie  
 WYUC 100.1 Eveleth & K280AM 103.9 Hoyt Lakes. Both verified in 1 letter from Lew Latto, Pres. WYUC-FM Duluth, MN owner of WEVE & K280AM. Elving  
 WYUC 95.3 Detroit Lakes, 56501. Letter from David H. Knutson, GM who accuses me for being the most distant listener, & sends a tee-shirt, decal, bumper stickers, & etc. Elving  
 KTIS 100.1 Detroit Lakes, Box 499, 56472. Mike Heubner, station manager, verifies & says KTIS is a noncommercial gospel station. Elving  
 KSMI 89.1 Colleville, 56371. Long letter from this 10 watter on a 460' tower from Victor Assel. "Our all student staff was pleased by your letter, & we hope that in the future we might hear from you again." Elving  
 WYUC 85.3 Southfield. Letter signed by Robert J. Sneddon, GM, 2 week reply. Ross  
 WYUC 91.7 Alameda. Letter signed by Thomas J. Endres, Dir. of Tech. Service, with reply in 2 weeks. Ross  
 WYUC 99.7 Highland. Letter by Chris Heal, Corp. Eng in 2 weeks. Ross  
 WYUC 93.7 Grand Rapids. Letter, contour map & dial locators, from Staton C. Smart, station manager. Ross  
 WYUC 94.9 Lansing. Letter from John D. Hanley, CE WABZUP in 2 weeks. Ross  
 WYUC 105.7 Grand Rapids. Card signed by Michael D. Lareau, GM in 1 week. Ross  
 WYUC 95.0 Batesville, Grauer 73, 38404. Send back prepared letter signed by J. Boyd Ingram, CE. Eddie  
 WYUC 94.1 Omaha, 8901 Indian Hills Dr, 68114. Letter from Jerry Weist, CE Eddie  
 WYUC 94.3 Celina, 124 W. Fayette, 45822. Letter signed by Jim Poore, Sales Mgr & J. D. Poore, ce with reply in 2 months. Ross  
 WYUC 107.9 Cleveland, 14781 Sperry Rd, 44065. Letter from Winn L. Rosch, CE. Eddie  
 TX KETQ 89.9 Commerce, 75428. Friendly letter written by Mary E. Simpson, Dir. of Traffic & Promotion. "Even if it was for a short time, we certainly are pleased to include you as one of our listeners." Elving  
 Reporters this time are: Phil Boesna of Spring Lake, MI (new reporter), Richard Eddie, Robert Ross, Bruce Elving, Randall Clark, for this all fm nsl month. For readers of this column who report, just in case you wonder why your nsl item may take a while to get in is because I like to so it up to variety of states reported instead of just one state & one reporter. If you like to send in fm dial cards, xeroxed copies of nsl for column to be printed please do. This would make your nsl the special one of the month so everyone would see it.

73's Tom

# IN SEARCH OF PSB

Donald L. Flewitt  
1715 Parkhart Road  
Baltimore, MD 21221  
phone # 301-574-2714

IN SEARCH OF PSB ..... This month's feature will deal with Georgia State Patrol and the growing trend of change toward higher frequencies. This information comes by way of a two month stay in Georgia. My stay there, of course, included a visit to the local Radio Shack located in the Brunswick Mall near Brunswick, Georgia (about midway between Savannah and Jacksonville, Florida). As is the case of anyone who sells scanners and scanner crystals, the sales clerk there had a list of local frequencies, as I will outline below. If you wish to locate a local list, my suggestion is to check the local Radio Shack, even while you are on vacation. My approach was to tell the sales personnel that I have a Radio Shack PRO 2001 and am camping outside there area and would appreciate knowing what to program my scanner with. That isn't a complete lie, as I do have a Radio Shack Scanner, the PRO-21. With a few exceptions, you'll generally find the RS people helpful. Brunswick is the county seat of Glynn County and a smaller port city in the Southeast of Georgia resting to the west of Jekyll and St. Simons Islands. A popular beach resort, Brunswick is the core of activity for swimmers, boaters and shrimp fishermen. As many of "you all" might head down south towards Florida, keep these frequencies in mind.

## Glynn County

Glynn County Police	159.21	KOW 416	Brunswick
Glynn County Fire Depart	154.385	KVJ 773	Brunswick
Intersystem Net (Base)	154.935	KOW 416	Brunswick
Intersystem Net (Cars)	154.905	KOW 416	Brunswick
Ambulance to Hospital	155.34	-----	-----
Glynn Memorial Hospital	155.34	KVI 581	Brunswick

## City of Brunswick

Brunswick Police	159.15	KIB 697	Brunswick
Intersystem Net (Base)	154.935	KIB 697	Brunswick
Intersystem Net (Cars)	154.905	KIB 697	Brunswick
Brunswick Fire Department	154.22	KIM 338	Brunswick

## GEORGIA STATE PATROL

### State Patrol and Georgia Bureau of Investigation

All Bases to Cars	154.68		
All Cars to Bases	154.80		
Car to Car	154.68		
Statewide Sheriff's Net	154.935	Bases	
Statewide Sheriff's Net	154.905	Cars	

## Mc Intosh County

Sheriff's Department	154.845	KTR 545	Darien
Intersystem Net (Base)	154.935	KTR 545	Darien
Intersystem Net (Cars)	154.905	KTR 545	Darien

## United States Coast Guard

Jekyll Island*	156.80	-----	Jekyll Island
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Also other marine frequencies\*

Well troops it comes that time again I must get on the old soap box and start selling "IN SEARCH OF PSB". My contributions are dwindling down to nill once again so please get those letters and cards in to your editor. My absence saw only one contribution and frankly I am disappointed. I print what you send in, so I can only surmise that I am doing something wrong. If this is the case, please don't hesitate to let me know. Well anyway let's get away from my self pity and get to the business at hand.

## TIDEITS

Hagerstown, Maryland:  
NOAA Weather Station on 162.475  
Atop MWPB Channel 31 Tower  
Fairview Mountain 3 miles west of  
Clear Spring, Maryland

Hagerstown Police Department  
change frequencies from 155.79 to  
155.745 KZO 480

Gettysburg, Pennsylvania:  
Gettysburg National Military Park  
National Park Service  
164.725 KGB 799

Arbutus, Maryland  
Arbutus Cab Company  
Change Frequency from 152.27 to  
152.435 (mobiles on 157.695)

Maryland State Police  
change frequencies as noted below:  
Glen Burnie to 39.04  
Fredrick Barrack to 39.40  
Westminster Barrack to 39.52  
Easton Barrack to 39.30

Bethlehem Steel Company Police  
changes from 153.32 to 451.975

WANTED: Information about the  
New York State Police  
Especially frequency pairs

WANTED: Information about the  
Florida Highway Patrol  
Looks like a change to VHF High

WANTED: Information about the  
Texas Department of Public Safety  
Texas has moved to WHF High

WANTED: South Jersey Police nets  
on 156.21 & 158.97  
These stations have been a mys-  
tery for 5 years, please help!

WANTED: A personal review of the  
Bearcat 250, 300 and Thin Scan 4-6

ALL POINTS BULLETIN:  
Maryland State Police have been allocated  
three WHF High Frequencies...Maybe a change  
in the near future.....

155.73...155.19.....155.475\*  
\*Currently used for barrack to barrack

Any and all contributions concerning Public Service would be appreciated. No contribution is too small or too large. So as they say in the Army, let's get on the stick, OK?. As you can see the information I publish today will only have to be updated later, so as you can see there is a need for your information. If you have a question concerning this untimely hobby, send it in, as somewhere outthere is a WFDMA member who is asking your question. I know I always try a frequency more readily if someone verifies its use. Very often the reference manual you use for information prints a wrong frequency or location. Till later, keep those scanners going.....

7's  
Don



# VHF UTILITY DX

JUNE 1980

The 10.7-cm solar flux for April averaged the highest for an April (209) since 1959. That made for a smoothed average of 193 for October.

However, F2 conditions on 50-MHz since mid-January have been running consistently below expectations in North America. April provided a lot less DX than has been seen at this time of the year when solar fluxes were in the 130-170 range. A slow-starting Es season may have some connection with this.

50-MHz summary (for more details see QST, hr report, or SMIRK newsletter as explained in my April 1979 column) -

Hawaii good nitely TE to much of the South Pacific (Australia, Fiji, Samoa, etc.) 20 Apr 07z to South Africa (ZS5,6) and again on 27 Apr... Europe to South Africa good thru early April...New Zealand several days into the Caribbean, Mexico, and parts of FL, TX, CA, AZ; Apr 13 22z ZL1 to PY2XB (Brazil)...Gibraltar to Japan 10 Apr 00z & many other times into Argentina & Ascension Is...Australia 50-MHz good to CA & Caribbean but best 52 MHz into Mexico (10 Apr)...a few Argentina to FL & CA

My loggings. Bearcat 210 with 11-m g.p. @ 147, Hallicrafters SX-62 with 30' wire @ 12' (49-50 see later); F2 unless noted (\* Es, bs-backscatter) with daily MUF peaks noted; GMT used

3-28:  
 1330 KCD582 33.70 Harvard, MA-f  
 1359 KCA585 33.90 Plymouth, " "  
 KCD454 33.70 Hyannis, "-fdi  
 1400 KCD244 " Falmouth, "-f  
 KCD246 " S.Yarmouth, ""  
 KCF264 " Truro, " "  
 KCD271 " Harwich, " "  
 KCE288 " W.Tisbury, "-cf  
 KCF358 " Centerville, "-f  
 KCD492 " DennisPort, " "  
 KCD497 " BuzzardsBay, " "  
 KCD498 " Sandwich, " "  
 KCD500 " Wellfleet, " "  
 1401 KCD556 " Orleans, " "  
 KCF574 " Mashpee, " "  
 KCD594 " Chatham, " "  
 KCD760 " Osterville, ""  
 KCB781 " Barnstable, "-cf  
 KCD845 " Brewster, "-f  
 2000 46.28 Spanish  
 2115 45.25 New Zealand TV video  
 3-29:  
 1424 KCA585; 2150 45.26 Spanish  
 2200 45.24 NZ video  
 3-30:  
 1610 low-33 US ne; 1910 46.74 Sp.  
 2132 45.25 NZ video  
 3-31:  
 2230 45.24/.25/.26 NZ videos  
 4-1:  
 2200 45 NZ videos; 2217 46's Sp.  
 4-2:  
 1428 KCE681 33.70 Rockland, ME-f  
 1600 KBZ283 33.90 Orford, NH-rf  
 1928 46.24 Sp.; 2158 45 NZ videos  
 4-3:  
 1639 KCA639 33.90 W.Wareham, MA-f  
 4-3:  
 1658 KCD288 33.90 Hollis, NH-f  
 1700 KBZ283, KCD582  
 1710 KCC825 33.70 Kennebunk, ME-f  
 1723 KCD471 " Wells, " "  
 1802 KCA585; 1905 46.24 Span.?  
 1920 45.44 Sp.; 2155 45.25 NZ vid.  
 4-4:  
 1655 33.9 US ne  
 1933 35.64 R.Can. (Sackville, NB)-ha  
 2018 46.56 se  
 2115 30.52 Ascension Is. (BBC-ha)  
 2117 45.24 NZ video  
 4-5:  
 0040-0200 Es to FL up to 43-45 /tp\*  
 0107 KIF651 35.58 Ft.Lauderdale, FL-  
 0126 KIY508 35.22 Orlando, FL-tp\*  
 0136 KIN645 " Miami, " ""  
 1559 KDA383 33.90 Milford, NH-f  
 1559 KDC288, 1603 KCA585  
 164- KIY508\*, 1700 KBZ283  
 1703 KCB526 33.70 Kennebunkport, ME-f  
 1825 35.64 Radio Canada  
 2019 KLF527 35.22 Honolulu, HI-tp  
 2028 45.24 NZ video; 2220 46 Span.  
 4-6:  
 1757 KCA661 33.90 Carver, MA-f  
 1800 KBZ283  
 1813 KCC997 33.70 York Beach, ME-vf  
 1823 KCB281 33.90 Bridgewater, MA-f  
 1900 KDA383; 2020 35.64 R.Canada  
 4-7:  
 1400 KCD454, KCD244, KCD246, KCF264  
 1400 KCD271; 1401 KCE288, KCD492  
 1401 KCD497, KCD498, KCD556, KCF574  
 KCD594  
 KCD697 33.70 Provincetown, MA-f  
 1401 KCD760, KCB781; 1402 KCD845

## VHF UTILITY DX

(Dyer, cont.)

4-7:  
 1402 KCD574 33.70 Eastham, MA-f  
 1430 KCF364 33.78 Brookline, ""  
 KCF369 " " ""  
 1610 KCA585  
 1728 KCB951 33.70 Wells Beach, ME-f  
 KCC825  
 1737 KCN857 33.70 Winchendon, MA-f  
 1743 KCC944 " Torrington, CT-f  
 1759 KDA383, KDC288  
 1925 35.64 R.Can.; 2145 45 NZ vid.  
 2208 46.25 Australian TV video  
 4-8:  
 1840 30-32 US ne; 1855 46.28 Sp.  
 1910 46.46 se?; 1939 KLF527  
 2005 45.26 NZ video  
 4-9:  
 1420 41.62 Sp.; 2146 45 NZ videos  
 4-10:  
 1835 30-31+ US ne; 1845 46.46 se  
 1957 45.26 NZ video  
 4-11:  
 2020 45 NZ videos; 2225 low-30 Can.  
 4-12:  
 1420 45.18 Sp.; 1548 33.04 US ne  
 1953 45.18 NZ videos  
 4-13:  
 1845 45.26 Sp.; 1855 45.25 NZ vid.  
 2225 46.24 Aus. video  
 4-14:  
 1255 30-31 US ne; 1820 46.46 se  
 4-15:  
 1430 30-31 US ne; 2040 45.36 Sp.  
 2158 30.52 BBC-ha  
 4-16:  
 0044 KLF527; 1800 30-31 US ne  
 2300 45.24 NZ video  
 4-17:  
 1625 41.5 se; 2000 low-30 Canada  
 2105 45.24 NZ vid.; 2340 KLF527  
 2348 30.52 BBC-ha  
 4-18:  
 1842 46.46 se; 2100 low-30 Can.  
 2130 45 NZ videos  
 4-19:  
 1550 low-30 ne; 1850 45.13 se  
 2135 45 NZ video  
 4-20:  
 1354 KCD306 33.70 York, ME-vf  
 38.5 Spanish  
 1412 KCD511 33.70 Camden, ME-f  
 1420 KCD498; 1422 KCD497, KCC997  
 1422 KCB526, 1428 KCC825  
 1645 KCF582 33.70 Thomaston, ME-f  
 4-21:  
 1450 30-32 US ne; 1550 41.5 se  
 2145 40.68 Pacific?  
 4-22:  
 1345 30+ ne; 1535 41.62 Spanish  
 2105 45.24 NZ video  
 4-23:  
 1415 33.04 ne; 2105 45.24 NZ vid.  
 4-24:  
 0011 KLF527; 1740 low-30 Canada

JUNE 1980

4-24:  
 1945 46.24 Sp.; 2300 45 NZ videos  
 4-25:  
 2010 46.24 Sp.; 2145 45 NZ videos  
 4-26:  
 1925 45.26 Sp.; 2350 45 NZ videos  
 4-27:  
 1515 38.5 Sp.; 2230 45.24 NZ vid.  
 4-28:  
 1310 30-32 US ne; 1815 40.86 se  
 2355 45.26 NZ video  
 4-29:  
 0000 45.24 NZ video  
 1325 low-30 Can.; 1713 38.5 Sp.  
 4-30:  
 0500 KSB204 39.50 Kankakee, IL-cp\*  
 1350 US 30-31 (ne)  
 1735 38.5 Sp.; 2100 45.25 NZ video  
 5-1:  
 1335 30-31+ US ne; 1745 41.5 Sp.  
 2105 45.25 NZ video  
 5-2:  
 1235 low-30 Can.  
 1655 30.80 Asc.Is. (BBC-ha)  
 1830 46.46 Sp.; 2137 45 NZ videos  
 5-3:  
 1250 30-31+ US ne; 1910 46.24 Sp.  
 5-4:  
 1632 KFL943 35.58 Las Vegas, NV-tp\*  
 1705 low-30 Can.; 1745 41.62 Sp.  
 1806 KLF527  
 1824 35.46 Los Angeles, CA-mp\*  
 5-5:  
 1215 low-30 Can.;  
 1305 30.75 R.Moscow-ha  
 1805 38.5 Spanish  
 -----  
 Swan 250, Ameco nivistor preamp; 5-e  
 Cushcraft horiz. Yagi @ 23' w/rotor  
 4-6:  
 2010 unID se 50.11  
 4-7:  
 1930-2020 49.65/.7/.82/.98? se  
 1935 W5UWB Kingsville, TX-bs  
 2035 W7CI AZ-bs  
 4-9:  
 2147 50.75 NZ TV audio (to 2230)  
 2213 ZL40Y Dunedin, NZ  
 4-10:  
 1932 49.6?  
 4-11:  
 1820-1915 49.78/.92 se  
 4-16:  
 1845 49.82 se  
 4-23:  
 1935 49.92 ? se  
 5-1:  
 2135-2215 50.75 NZ audio  
 5-2:  
 2115-2117 50.74 NZ audio  
 -----  
 Apr 13 got traces of NZ video on 45-  
 MHz system used prior for BBC Ch B-1.

73, Pat

WA5IIX

# TV STATISTICS

Michael L. Hogan  
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Phone: 312-868-4392

A little over a year ago, I took over the TV Statistics column with the hopes of making it a regular feature in the VHF-UHF Digest. But due to several unforeseen variables this goal was not accomplished. Now that another season is upon us renewed effort will be made to keep TV Statistics a regular feature in the VUD. With the help of a membership that has always taken the time to contribute, great things can once again be expected from this column. Now, on to a brief explanation of the purposes of the column.

Though it can be said that the main purpose of the column is for an individual member to have a chance to compare the number of his loggings against others in the club and also specific distances for certain loggings let us think a minute about the following.

1) There are some members who would like to see their names in print. Why not? I like it! Thus reason #1 to report to the column.

2) There are some members who would like to be number one or two in the standings or establish an unbeatable record for channel 65 or 76. Competition and also the drive to accomplish would combine for reasons #2 & #3 to report to TV Statistics.

Well, enough for the reasons to report to the column. The last time TV Statistics appeared was December 1979 with Distance Records from channels 2 thru 39. Other appearances were September 1979 with a listing by Total Political Units logged, June 1979 with Total Stations Seen and the first column in April 1979 with rules on how the column would operate. I suggest that you refer to the previous columns if you have any questions about TV Statistics. If you do not have any of the above columns, drop me a note and a sase and I will send you a photocopy.

Now what you all have been waiting for, that is, the distance records for channels 40 thru 83. As noted in the previous column an \* will denote a new All-Time record. Finally, I urge you to report any distances which would give you a record. Next column will feature total stations logged. Deadline will be July 1 for the listing. Hopefully the listing will appear in the convention issue in August.

CH	PR	CALL	Stn. Location	MILES	Dxer. Location
40	Tr	WILT	FL Sarasota	1060	Bob Cooper, OK City OK
41	Tr	KWEX	TX San Antonio	1035	John Combs, Orlando FL
42	Tr	WBMG	AL Birmingham	805	Mark Lewis & J.J.
					Rosenberg, Downsville ON
		WPBO	OH Portsmouth	tie	Bob Cooper, Arcadia OK
43	Tr	WUAB	OH Lorain	935	Bob Cooper, OK City OK
44	Tr	WTOG	FL St. Petersburg	1035	Bob Cooper, OK City OK
45	Tr	WNEO	OH Alliance	700*	Buck Battin, Duluth MN
		WBFF	MD Baltimore	tie*	Bob Kramer, Carbondale IL
46	Tr	KNCT	TX Belton	990	John Combs, Orlando FL
47	Tr	WSVN	VA Norton	825	Bob Cooper, OK City OK
48	Tr	WYUR	AL Huntsville	900*	Buck Battin, Duluth MN
49	Tr	WLBC	IN Muncie	735	Bob Cooper, OK City OK
50	Tr	WKBD	MI Detroit	900	Bob Cooper, OK City OK
51	Tr	WKID	FL Fort Lauderdale	1150	Pat Dyer, San Antonio TX
52	Tr	WKON	KY Owenton	835	Glenn Hauser, Franklin TX
53	Tr	WPGH	PA Pittsburg	765*	Buck Battin, Duluth MN

## TV STATISTICS

June 1980

54	Tr	WQLN	PA Erie	690*	Buck Battin, Duluth MN
55	Tr	K55AF	NE Cozad	380	Bob Cooper, Arcadia OK
56	Tr	WTVS	MI Detroit	900	Bob Cooper, OK City OK
57	Tr	WKYH	KY Hazard	820*	Buck Battin, Duluth MN
58	Tr	K58AE	IA Clarinda	376*	Bob Kramer, Chicago IL
59	Tr	WFAM	IN Lafayette	410	Bob Seybold, Dunkirk NY
60	Tr	WLXT	IL Aurora	455	Bob Seybold, Dunkirk NY
61	Tr	WKBF	OH Cleveland	930	Bob Cooper, Arcadia OK
62	Tr	WTVQ	KY Lexington	735*	Buck Battin, Duluth MN
63	Tr	W63AB	PA Mansfield	475	James Gould, Kokomo IN
64	Tr	K64AA	TX Perryton	195	Bob Cooper, Arcadia OK
65	Tr	WEDY	CT New Haven	335	Bob Seybold, Dunkirk NY
66	Tr	W66AB	PA Lake Ariel	430	Roger Brown, E. Lansing Michigan
67	Tr	WMPB	MD Baltimore	950*	Buck Battin, Duluth MN
68	Tr	WKMJ	KY Louisville	650	Bob Cooper, Arcadia OK
69	Tr	W69AM	WI Darlington	180	Bill Draeb, Kewaunee WI
70	Tr	K70CL	IA Fort Dodge	530	Fred McCormack, Des Lacs, ND
71	Tr	W71AE	IL La Salle	605	Bob Cooper, OK City OK
72	Tr	W72AJ	MI Escanaba	576*	Bob Kramer, Chicago IL
73	Tr	K73BU	TX Big Lake	300	Glen Neal, Sayre OK
74	Tr	W74AS	MI White Pine	580	Bob Seybold, Dunkirk NY
75	Tr	W75AJ	WI Fon Du Lac	470*	Bob Kramer, Chicago IL
76	Tr	CBFLT1	ON Kitchner	630*	Buck Battin, Duluth MN
77	Tr	W77AA	MI Iron Mountain	585*	Bob Kramer, Chicago IL
78	Tr	K78CR	IA Keosauqua	470	Bob Cooper, OK City OK
79	Tr	CITY	ON Toronto	410	Bill Draeb, Kewaunee WI
80	Tr	K80AW	IA Dubuque	605	Bob Cooper, OK City OK
81	Tr	K81AE	MN St. James	350	Bill Draeb, Kewaunee WI
82	Tr	K82AJ	MN International Falls	380	Fred McCormack, Des Lacs ND
83	Tr	W83AB	MI Detroit	200	Bob Seybold, Dunkirk NY

73's



KTVI



NTV network



WRGB

Schenectady, New York



WCJB 20

KSND-TV 4 Superior  
KWNB-TV 6 Hayes Center  
KCNA-TV 8 Albion Norfolk-Columbus  
KHGI-TV 13 Kearney-Hastings-Grand Island

Nebraska Television Network  
Kearney, Nebraska 68847  
Telephone (308) 743-2494



One Good Turn



wxon Detroit



KSTP TELEVISION  
SAINT PAUL  
MINNEAPOLIS



Wausau

# FM DX AROUND THE WORLD

BY PETE TAYLOR

My wife, a Sony ICF6700W, and SM-2 loop for AM DX, a Realistic CTR-48 cassette recorder and I recently completed a five week trip to South Africa, Kenya, Egypt, Hong Kong and five cities in China. The Sony is a hot receiver for FM and has digital readout. Here's a description of FM utilization and reception conditions in each of these areas.

**SOUTH AFRICA.** Prior to leaving, I examined the FM listings in WRTVH '79 and attempted to come up with their frequency allocation formula. Since the frequencies are rounded off in WRTVH, it wasn't easy, but I did finally arrive at the correct figure of 86kHz channel spacing—but I didn't know the exact frequency where it all started. Several communications with Mr. C. T. Vermaak of the SABC Johannesburg provide this picture of FM in South Africa.

1. The FM band is divided into 237 channels, with 86kHz separation between channels, starting at 87.604 and ending at 107.900 MHz.
2. The 237 channels are arranged into 46 groups. Each group was allocated to a transmitting site according to a lattice network consisting of a repetitive series of equilateral triangles. The lattice was distorted where necessary to fit lattice points on mountain peaks or other elevated sites. According to this lattice, transmitter station spacing is about 100-110km which allows stations to be situated reasonably near towns having populations of 15,000 or more.
3. Channel groups are numbered 1-46. Group 1, for instance, consists of channels 1, 47, 93, 139, 185 and 231, as is used in Johannesburg. This group is again used at Outshoorn, over 1000km away. This is more or less the distance between all co-groups. Adjacent group stations are about 450km apart.
4. Channels in groups are separated by about 4mhz (3.956 to be exact.) The smallest frequency separation between channels of adjacent stations (about 110km away from each other) is 774kHz. Thus, each of the FM channels can accommodate the bandwidth required for stereo transmission.
5. All the main TV stations are co-sited with FM stations. These are supplemented by gap-fillers (translators) which are likewise co-sited with FM.
6. There has been no known interference problem with the 86kHz channel spacing. Signal strengths in the cities and towns are quite large; portable radio reception is possible in almost all locations and car radio FM reception is the norm.
7. There are no plans for stereo transmission. All the FM transmitters are capable of handling stereo signals, but must first be equipped with the necessary encoders. The introduction of TV delayed the introduction of stereo.
8. The transmitting antennas have been designed to be omnidirectional in most cases, but in a few cases, directional antenna systems are used. The designs used incorporate panels of full-wave dipoles mounted on all four sides of a suitably dimensioned mast. The designs are such as to give adequate gain (average 10) and bandwidth. An antenna such as this transmits all the relevant frequencies simultaneously. In other words, the outputs of all the transmitters are combined and fed via a single coax to the antenna system. All FM transmission systems are horizontally polarized; no circular polarization is utilized.
9. 96 of the 98 transmitter sites provide Afrikaans, English, and Springbok (national networks) service. Two more sites provide Venda service only. 79 of the 96 also provide regional service (25 Radio Highveld; 41 Radio Good Hope; 13 Radio Port Natal.) In addition, there is Zulu service from 24 sites; South Sotho, 15; North Sotho, 8; Tswana, 12; Shosa, 19; Tsonga, 2; and Venda, 1 (plus the two other non-co-sited outlets mentioned above.)

So what do you hear? Five different networks serve the metro Cape Town area, and signals were noted from ten different transmitter sites. AM service has been reduced to eight transmitters in the entire country (two of these in the Johannesburg area) so obviously the emphasis is on FM. There are some variances between the WRTVH-79 list and the 8/30/79 SABC list, and I haven't had a chance to compare the latter with WRTVH-80. While none of this represents DX, it is a well conceived system, the frequency allocations of which extend into Namibia (Southwest Africa) and the newly created countries within South Africa.

**KENYA** FM is not too well developed in Kenya. Eight signals were noted in Nairobi:

88.5 //746	89.9 //611	*95.1 //746
89.5 //1269	91.1 //611	97.3 //611
89.7 //611	*92.9 //611	

The \* outlets are listed in WRTVH 80 and were heard 100 miles N of Nairobi. The others are probably STLs, or in some cases, perhaps even images. However, I believe the 97.3 is about 30 miles west of Nairobi, toward the Rift Valley, as a friend pointed it out as "one of the VHF stations going up all over the country." I have written for additional information.

**EGYPT.** Cairo appears to have stations on 88.8 and 94.1, which are sometimes // and sometimes not. 88.8 plays some classical music. There are no up-to-date lists of Egyptian FM stations; WRTVH lists none, and FDIS-74 (the last one) lists 88.0, 88.2, 88.9, 89.5, 90.5, 94.7, 99.0 with ERPs of between 1 and 6.3kw. Normal reception in Cairo includes the two above plus three stations in Israel, and //, and all listed as in Jerusalem. However, on Saturday night 11/24 there was a grand opening to the north, so the dial sounded like this:

87.8	40kw	Sina Oros, Turkish Cyprus
88.4		Unknown Greek or Turkish (from Cyprus)
88.8		Cairo //94.1 at this time, at least
89.2	25	Adana, Turkey//91.6 95.8 in French to 10pm, then classical music
89.8		Unknown, Arabic
90.3	1	Jerusalem, in French
90.6	40	Sina Oros, Turkish Cyprus; easy listening
91.3	100	Jerusalem, classical music //89.4
91.6	10	Antalya, Turkey //89.2 95.8
92.1	20	Akrotiri, Cyprus, BFBS//99.6 - C&W music to 9:30pm (local time)
92.9		Unknown Arabic
94.1		Cairo, occasionally //1062 kHz
94.8	20	Nicosia Cyprus CBC ("Huna Nicosia")
95.5		Unknown Greek or Turkish from Cyprus //103.2
95.8	10	Aydin Turkey //91.6 89.2
97.2	20	Mt. Olympos, Cyprus, CBC
99.6	20	Dhekalia, Cyprus BFBS //92.1
103.2		Unknown Greek or Turkish //95.5, probably Cyprus
89.4		Jerusalem //91.3 (oops out of order, sorry)

In a nice letter w/QLS, M. E. Townley, Engineer in Charge, BFBS Cyprus, says they have fairly good propagation across the sea path to Lebanon and Israel during the summer, but that it is very unusual in the winter, particularly to Cairo, which is inland. The Akrotiri transmitter is on top of a cliff on the southern edge of the Akrotiri peninsula. He feels the 103.2 is in Israel but that the 95.5 could be a military station in Cyprus run by the military. (However, they were // so I still maintain they are both Cyprus.)

It looks like I hit a pretty good night on 11/24. The band was dead 11/25. Cyprus and Israel are using FM to good advantage, with Israel featuring mostly classical music. In Egypt, it is untapped. Cairo needs a good disco/rocker to offset the listening to Cyprus-1233, which has a great signal and mostly U.S. pops with many commercials in Arabic!

**HONG KONG.** Several new translators have been installed since I was in Hong Kong in 1975 and the band sounds like this:

87.2	RTHK3 //567 (English)
89.4	RTHK1 //783 (Chinese)
90.2	BFBS Brick Hill //1250 .05w (also //99.5)
91.0	RTHK4, stereo, 10kw. Much classical.
91.65	Commercial Radio STL//675 (Chinese)
93.0	Commercial Radio STL//864 (Chinese)
94.0	RTHK2, stereo
94.7	Commercial Radio STL//1044 (English; popular music)
95.0	UNID probably RTHK
95.6	Guangzhou, Guangdong (Canton, Kwangtung, China; often //897)
96.0	RTHK5, .04kw - World Service (BBC) relay
*97.0	RTHK HK island news studio to Broadcasting House link
97.8	RTHK HK island news studio to Broadcasting House link
98.0	Macau//900
99.5	BFBS Sek Kong//1250 90.2, 5kw (XR - Castle Peak)
100.3	RTHK 4//91.0 100.9
100.9	RTHK 4//91.0 100.3
103.5	RTHK 1//783 94.0
105.5	RTHK5//96.0 BBC WS relay

And yes, there is conflicting information. WRTVH80 lists 94.0 as RTHK2, whereas I heard it //783 RTHK1. I guess here is that RTHK2 is not always programmed separately. Four years ago I was told that there were no FM stations in China, whereas I taped China pips amidst classical music on 97.8. As you'll see, there is indeed FM in China. \* - I didn't hear 97.0 which was listed in a letter from Mr. K. K. Chiu, Assistant Engineer. I did hear 95.0 which perhaps serves the same purpose.

CHINA. Yes, there is FM in China, but for some reason, there were no FM receivers available in the stores we went in to. Some signals are relatively strong (Hangzhou was heard in Shanghai; Guanzhou/Canton was fine in Hong Kong.) It is easy to say that they must be used for STL purposes. That's a fine theory, but often you don't find the FM programming anywhere on AM. (Perhaps for SW?) In Beijing (Peking) one of the transmitters was so heavily overmodulated that you could see the frequency shifting on the Sony WU meter -- just awful! Here's what was heard:

Beijing: 89.5 1563kHz RF jamming shows up around here (not a transmitter)  
91.5 //98.1 foreign service  
94.0  
95.6  
97.4  
98.1 //91.5 w/EE discussion 12/2 8:40pm

While I can't find it in my notes, I recall that one of these, 95.6 I believe, carries the same regional programming as Baoding-783.

Shanghai: 91.8 local station  
96.1 //1101kHz (which drifts 1099-1101)  
96.6 Weak. Different chimes. Off-air SW pickup. //98.5 8:03pm 12/5  
98.5 Weak

Also 93.6 was heard with a fair level carrier 8:05pm 12/5 - no modulation  
Hangzhou: 95.6 is //810kHz with English language lesson 12:50pm 12/7.  
Guanzhou: 95.6 is //897 and it appears to have an image on 90.2. Also, the Hong Kong FM signals on 91 and 94 are readable at fair level.

While most of my time was spent on AM DX, it was fascinating to note FM usage around the world. South Africa's is by far the most sophisticated system. In some of the other countries, it was sort of exciting not to hear a station every 400 kHz!

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# AURORAL DX TIPS

One of the more fascinating types of VHF DX propagation, especially for DXers in northerly areas, is auroral ionization. If you're a TV DXer in a northerly or midwestern location, you may have seen the effects of this type of DX without realizing it.

TV signals propagated via the auroral "curtain" are most often badly distorted--usually to the point where the term "hash" is a good way to describe the video. However, FM signals often do make it through the aurora in a fairly intelligible condition, so your best chances for auroral DX will come via your FM DX system.

Auroral DX openings are possible anytime of the year, but the number and intensity of them is related closely to the 11-year sunspot cycle--but not quite in the same way that F2 DX is related, since auroral activity will tend to peak up to two years after the the sunspot number maximum for the cycle occurs.

Much remains to be discovered about the exact causes of auroral activity. Many VHF DX enthusiasts have been surprised by the fact that the visual "light show" in the sky that may accompany an auroral DX opening (the auroral borealis--or auroral australis, in the Southern Hemisphere) does not always mean that there will be similar activity. There have been many cases of intense auroral hash on the lowband TV channels and no corresponding "northern lights" in the sky, and vice versa.

Each auroral DX event has characteristics of its own, and no two are ever quite the same. Auroral DX signals are often observed producing their "hash" effects on the highband TV channels, and it has been proven that auroral DX is possible into the UHF range (420 MHz amateur contacts have taken place via the mode), but the average DXer will observe most auroral effects on the lowband and FM broadcast frequencies.

The closest thing to an auroral DX "season" is the equinoctial part of the year (spring or fall), usually March and September. Auroral openings are most likely to be noticed beginning in late afternoon, usually around 1800 local time, and may last anywhere from less than half an hour to several hours. One of the best ways to check for signs of an auroral disturbance is to check signals on a general coverage receiver in the early evening. If you monitor the 75 meter "phone" portion of the amateur radio 80 meter band (3.5 to 4.0 MHz), tune around for signs of "flutter" on the signals in the 200 to 600 mile range. If some of the signals seem to have a fluttery sound to them, it's a good bet that you'll soon note the effects of aurora on the lowband TV channels, and hopefully into FM.

Remember to point your antenna north when you're searching for auroral DX. It will seem hard to believe, but the FM DX station that's 700 miles or so to the west will actually be coming in at its strongest from the north or northwest. In general, you'll find that the most distant DX stations tend to come in with the antenna furthest to the northwest or northeast, while the closer ones will seem to peak due north. During a decent auroral opening, you may have DX stations identifiable from 1200 miles away, while hearing some from under 300 miles that often can be logged at your location via tropo.

Auroral hash and auroral-induced E-skip openings are two different things--don't confuse them. Often during an auroral opening, what appears to be a regular Es opening will commence, and will show all or most of the usual characteristics of E-skip--with the exception of the time of day. Auroral-induced Es seems more likely to take place after midnight, long after most of the more commonplace morning and evening openings have disappeared. Many "mysterious" middle-of-the-night E-skip events that have shocked DXers actually have been auroral DX--clearing up the mystery of certain openings that have seemingly come up "out of nowhere".

## TECHNICAL TOPICS



**Q:** "During the F2 skip peak last winter, I heard the Russian "woodpecker" noise all across the FM broadcast band, but this is supposed to be impossible, isn't it? Did the F2 skip actually get into the 88-108 MHz area, or was it a combination of Es and F2, or something? All I used was the whip antenna on my multi-band receiver."

**A:** Actually, you probably heard the "woodpecker" noise, the high-energy RF pulses that have been driving SWLs (shortwave listeners) and hams up the wall for many months. However, you were hearing it through your portable's IF circuit. Multi-band portables, with very few exceptions, have poor IF shielding, making them particularly susceptible to strong signals at or near the IF spot, which in most cases for FM broadcast receivers is 10.7 MHz. At the time you heard the woodpecker, the pulses were probably super strong into your area around the 10.7 MHz spot.

**Q:** "My VHF TV antenna is mounted fairly close to my UHF dish, and when I rotate the UHF dish, I can see an effect on the VHF antenna's performance. The dish seems to change the nulls on the VHF antenna, and sometimes I can use this to my advantage. But, I wonder if the overall DX performance of one or both of these antennas is lessened?"

**A:** This is obviously an example of antenna interaction, and most of the time, it does more harm than good to your DX results. You are experiencing antenna phasing (or phase shift) effects that change the response patterns of your DX system. It's not always practical for DXers to space their antennas far enough away from each possible source of phasing such as other antennas, power lines, and so forth, but you should be aware of certain problems that veteran DXers have come across. First of all, when a very long VHF antenna is mounted on the same mast as a large UHF dish (not recommended), the lower VHF channels will be degraded by as much as 3 db, and UHF performance can be reduced in some cases, but perhaps not very severely. Mounting the VHF antenna at a right angle to the dish may offer a partial solution, and shorter VHF antennas on masts with large UHF parabolics do not seem to be as much of a problem. Also, it has been noted that mounting a UHF antenna at about the same height as a VHF antenna on another part of a roof may make the UHF antenna's pattern suffer from unexpected distortions, due to reflection or possible phasing effects. No type of UHF antenna, even parabolic dishes, is immune to the problem, though parabolics may suffer the least. A good compromise for the TV/FM DXer is to mount the UHF dish at one end of the roof, with the FM DX antenna on the same mast and turned 90° to the dish, and mount the VHF TV antenna at the other end of the roof on a separate rotor.

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