

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

AUGUST 1979

IN THIS ISSUE:

**ARE
YOU
READY
FOR
F2 SKIP?**

From The Staff:

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394

A WEIRD E-SKIP SEASON...In general, it has been a very poor Es season for most North American DXers chasing TV and FM skip. However, it certainly hasn't been without surprises. Widespread Es on the 2-meter amateur band (144-148 MHz) was noted by hams east of the Rockies on June 24th, and some fantastic multiple-hop Es brought 6-meter (50 MHz) signals from Hawaii to the east coast of North America a few times, as well as lots of activity from Hawaii to the West Coast. And yet, almost nothing spectacular has been noted by most TV and FM DXers this season! E-skip has remained true to form--surprising and unpredictable.

A REMINDER...As we noted last month, WTFDA dues are going to \$13 on September 1st--but if it's time for you to renew, you can still get in at the old \$11 rate until the above date. There's still time if you want to save money. Hurry!

MORE PRICE INCREASES...The cost of some club supplies has had to be increased also. WTFDA's Station QSL Report forms are going to \$2.00, and our DX Log Sheets will be \$3.50 per pad. If you've recently ordered some of these at the old prices and haven't yet received them, don't worry. We're out of stock at the moment, and have ordered more from our printer.

NEW ADDRESSES...Two VUD column editors have changed their addresses. SOUTHERN FM DX editor Danny Buntin is now at 1312 N. Skyline, Stillwater, OK 74074. MEMORABILIA's Bob Williams is now at 312 Shoshone St. E., Apt. B-8, Twin Falls, ID 83301.

CCI EDITOR NEEDED...We're looking for a new editor for the VUD's "CCI" column. If you have a knack for solving other DXers' mystery loggings, this could be your chance to serve WTFDA. With the coming F2 skip peak, there may turn out to be many interesting unIDed loggings for TV DXers, and there are always FM unIDs waiting to be solved, so we'd like to hear from someone willing to spend time tracking down the unidentified DX. Current editor Bill Draeb is willing to provide the necessary information to a successor. Drop a line to WTFDA HQ if you'd like to help us out.

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MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 10th

New Members:

Patrick Colembiewski	2242 W. Halsey Ave.	Milwaukee, WI 53221
Neil Kazaross	30 King Philip Road	Pawtucket, RI 02861
James Kingsbury	Route 1, Box 4	Grantsville, WV 26147
Tim McVey	Route 3, Box 568	Bolivar, TN 38008
Ken Sarkozy	8750 N. Riverview	Kalamazoo, MI 49004
Adrian Thomas	Box 4569	Williams Lake, BC V2G 2V6
David Tomlin	35 Hilltop Road, RD 3	Berlin, NJ 08009

Renewals:

Mike Dalton, Eldon S. Luoma, K. Noffsinger, Bill Phillipson, Gary Siegel, Ken Simon.

Rejoins:

Jeff Kadet-P.O. Box 90-Rockville, MD 20850
Scott Levitt-3132 Woodland Ave.-S. Plainfield, NJ 07080

Address Changes:

Randall Clark-RT9, Box 231 (Dutch Ridge)-Parkersburg, WV 26101
Michael P. Hollis-3623 Spanish Trace Drive-Hephzibah, GA 30815

Renewals Due in September:

John Anderson, Albert Bernard, Phil Bytheway, Felix Collier, Bill Dulmage, Doug Everitt, James Filler, Robert Fischer, George Greene, John Guiney, Glenn Hauser, Debra Hidden, Brandon Jordan, Ed Kowalski, Paul Krueger, Kurt Nelson, Robert Ross, Peter Sawatzky, Mike Scheel, Randy Schnepf, Edward Sirovy, Wayne Thompson, John Walters, Larry Weil, David Wilson, Michael Wimer

New member PATRICK GOLEMBIEWSKI is also a member of NRC and NASWA. His DX gear includes a Bearcat 210 scanner and a Magnavox portable color TV.

21 year old student NEIL KAZAROSS comes to us from the great state of Rhode Island. He's into MW, SW, TV and FM DXing and uses Sanyo and Sony portables for FM. Neil is also a member of NRC.

We'll let TIM MCVHEY introduce himself: "I am 16, work at a local grocery store, and am not a member of another DX club. Most or all of my DX time is devoted to FM, with a little TV and AM on the side. Like so many others, I learned about WTFDA from Communications World. I DX with the family stereo: a JVC model JT-V22 tuner, and the matching amp and tape deck (cassette) that go with the system. The antenna is a Radio Shack (bleech!) VU-42 antenna at 35'. I spot check with my own Juliette AM-FM stereo and its 3 foot yagi antenna at 25'. I use no rotators, preamps, or boosters on the antennae. Here where I live, DX is a real challenge, since EVERY broadcast channel on TV and FM is occupied by locals, some 2 or 3 deep. (I define "local" as anywhere within 225 miles of my home.) However, my logs are up to 280, 25 states, 1 province, and 2 estados."

And from the Garden State DAVID TOMLIN writes to tell us that he's now living in an excellent location and wants to put up the best rigs he's ever had. His interests are mast-mounted preamps for TV and FM and various and sundry antenna arrays. David learned of the club in the FM Atlas.

Tidbits.....

A big welcome back is in order for Jeff Kadet and Scott Levitt! Jeff writes: "I just got a Zenith 9" set and have driven to some outstanding lookouts in western Maryland. Having never been living at a great location, I haven't had so much fun in years." Jeff is a photographer who was a member from 1968 to 1974. Scott was fortunate enough to attend the Chicago 1976 WTFDA convention, which I'm sure brings back good memories. His DX gear includes a GE 19" black and white model XA4320WD with rabbit ears, a 5' Finco dish, and an Archer V-185 antenna.

August 1979

DXers in the New England area have a gala event coming up, according to Sam Barto: "Formal announcement of the fourth annual New England Area DXers Outing is now being posted. This year's outing will take place on September 9th, 1979, at Black Rock State Park in Watertown, Connecticut. This outing is the largest of its type in North America. Last year an unofficial count taken during the outing placed over 100 people in attendance. The outing is surpassed only by the ANARC convention. Besides meeting over a dozen editors from nearly every major DX organization in the United States, the NEADXXO can offer much, much more. We have games, door prizes, fun, good talk and, of course, our annual Handicapped Aid Program auction. This year we have collected hundreds of station pennants, thousands of station stickers, records, tapes, stamps, books, antennas, receivers and much, much more. For further detailed information concerning the NEADXXO and related activities, please send a SASE to Sam Barto, NEADXXO Coordinator, 245 Cherry Ave. J-11, Watertown, CT 06795."

Now this from Rick Samford (404 S. McNeill, Burnet, TX 78611): "Thanks to the plug in your May Mailbox column, I was able to get all 1970-1973 and January 1976 VUDs. However, this still leaves 8/74, 5/76 and 7/76 to 12/76 to be obtained. I'm now more ambitious than ever to get the 8 issues that I'm missing for this decade. Since I'm so desperate, I'll probably be willing to pay more than they're really worth. I'm willing to trade the 5/73, 12/73 and 2/78 (2 copies) of the VUD for the 8/74, 5/76 and 7/76-12/76 issues." In a different vein, Rick says, "I'd again like to offer my thanks to those of you in Indiana. Having contributors and column editors is nice, but without the publishing crew there would be no VUD. You all are definitely the most important cog in the wheel." All of us here in NW Indiana appreciate the kind words, Rick!

DXing in the Mediterranean area is keeping Martin Lawson (Kibbutz Ha'Ogen 42880, Israel) busy: "FM DXing in this region is both exciting and frustrating. Exciting as on occasions I have heard stations as far away as Malta, France, Austria, and Yugoslavia and various Balkan states, but frustrating in the sense that when there is an opening I am usually swamped by hundreds of low-powered Italian stations, almost all up to recently illegals, who are not very forthcoming in announcing station identifications. The most opportune time to look for long distance stations is an hour before and after dusk. Early morning (dawn) time holds no surprises as eastward is thousands of miles of desert."

Member Jim Wallace (3786 Quince Drive, Apt. E, Columbus, OH 43228) has news for us from central Ohio: "I am no longer working for WSYX, London, because the new owners decided they could not afford a fulltime news director this year. I am now working in the public affairs section of the Ohio Bureau of Workers' Compensation for twice the salary I received at WSYX. WSYX is now a religious station with syndicated religious programs from 6AM to noon followed by "contemporary Christian music" until midnight. It also subscribes to the UPI Audio Network and the (Ohio) Agri-Broadcasting Network. Tell the club members if they want a free FM antenna, all they have to do is write to WSYX. The station is trying to make sure outlying listeners can receive it well. Wouldn't it surprise them if they received requests from various parts of the country? All you need do is send a postcard with your name and address to: Fuzzy, WSYX Radio, P.O. Box 6, London, OH 43140." On a personal note, I must say that contemporary Christian music is an up-and-coming format, but station owners should realize the value of news, particularly of a local variety. Many Christian stations are still rip-and-read.

Speak French? Then you might just want to give COCQ a try. COCQ stands for Club Ondes Courtes du Quebec, one of the newest ANARC members. The club's bulletin, L'Onde, is entirely in French. For more info, write COCQ, 3420 Chemin Ste.-Foy, Apt. 5, Sainte-Foy, PQ G1X 1S6.

From our old friend John Callarman (1122 Maple, Mt. Vernon, IL 62864) we have these words of wisdom: "In the couple of years or so that I've been a WTFDA member, I've not done a very good job of tuning the FM bands, but recently, I've been familiarizing myself with what's available here with limited facilities. I've still got an old TV antenna up about 45 to 50 feet, a frozen rotor, and a Fisher 220T bought in 1968 for my operation. I'm taping ID's...neither the time nor the inclination to write reception reports...but I've so far done nothing sensational. I have been monitoring in the 8:30 to 9:00 AM and 12:30 to 1:15 PM windows, plus periodic early afternoon and evening checks. There've been a few interesting (to me) catches, but nothing that would excite a veteran FM DX'er."

(Callarman cont.) So far, my tropo reception has been extended only to about 300 miles, with Chicago, Iowa City and Senatobia MS being about the limit. I've got that high TV tower going to waste, but what is the problem is getting someone to climb it and replace what's up there with what I want up there. I'd use a Finco dish and a good deep fringe all-bander if I could deal with someone who'd install it/them. Probably I'd put the FM facility away from the TV tower. It'll be easier to get an antenna system by my wife than a new FM receiver...which wouldn't do any good without the antenna system anyway, hi! No Es here, though Richard Wood (Cape Girardeau, MO) has gotten into Mexico this season. Richard is getting all day reception from the stations I can occasionally pull in during a particularly good tropo session. I know what Es is though...a couple of summers ago, in my only experience with it, I was driving 70 miles north of Douglas AZ and found a very nice station, strong signal, my kind of music, and carried it steadily into downtown Douglas, particularly enjoying KXL-FM, because when I was a kid in Corvallis, Oregon, KXL-AM was my favorite station. Not much else happening here. BCB is taking a back seat. I'm probably the only guy who'll ever win the NRC Domestic DXer of the Year award without turning my receiver...and I told 'em it should have gone to someone else!!!"

The award is well deserved, John, for your work on the NRC Domestic Log!

As you may have noticed on the first page of Mailbox, Randall Clark has a new address. The change, tho, doesn't mean he's moved. Actually, the post office has moved him. To make a long story short, his area is undergoing a postal reorganization, and he has a new address. Says Randall, "Those who have already sent anything to the old address don't worry, as my mail will be forwarded to the new address for a year, till 6/2/80...so there won't be any rush to re-address, etc."

Eldon S. Luoma (10653 - 137A St., Surrey, BC V3T 4J7) has a few kind words: "I've really enjoyed the Digest in the past year and especially the FCC News section of the bulletin. Bruce Elving does a fine job with this column. I hope WTFDA continues with its success into the future. The technical articles/reviews about receivers are also interesting to me." Fortunately, most of the comments received here at HQ are complimentary. We're always looking for constructive criticisms of the VUD, club operations, etc.

Recent joiner Robert Taylor (189 Inlet Ave., Manahawkin, NJ 08050) has had some interesting comments: "As a NASWA member, I use FM for relaxation and information. I'm connected to a cable and am stuck with it. Look on the New Jersey map in the FM Atlas. I'm located near Shipbottom 100.1 WJRZ. I enjoy WWSH 106.1 Philadelphia and 101.1 WDVR Philadelphia. On each I get interference that my FM splitter (Finco) and 5db booster (Radio Shack) can't overcome too well. Contrary to what I think your club's aim is, I don't want WSLT Ocean City NJ, WSFL Bridgeton NC, WHTG Eatontown NJ and WBLI Patchogue NY messing up my relaxation with WWSH Philadelphia. What I want to do is learn more about this area of the spectrum, in general, and buy or build whatever to improve my reception on selected frequencies. By the by, I have recently joined a 4 channel HiFi club (newsletter of articles on advances in quadraphonic, with ads for software such as records and tapes and hardware such as receivers and decoders)."

HQ recently received a letter from Enrique Leon, who lives in Cuba. Unfortunately, he's not able to join the club, but he'd like to correspond with club members. Here's what he has to say: "Some time ago I wrote to Popular Electronics asking information about TV DXing, for I have tuned different countries, but mostly from the USA. They answered my letter and suggested me to write to you. I'm writing to you so as to get in touch with this club and bring my help, if any, to you. I can't pay any dues, not because I don't want to, but because our money isn't allowed or changed abroad. Anyway, I hope I can help and keep in touch with you and give me some information and I can send you reports about my DXing on TV. At least I want to change letters with any member who is willing to. Please, get me in touch." Like to correspond with Enrique? His address is Ave. Leon Cuervo 267, P. Del Rio, Cuba.

DXing is alive and well in Scandanavia! Maybe we should retile this column International Notes II, hi! In a recent letter seeking information on WTFDA, Ullmar Qvick of Sweden had these comments: "Suddenly I was hit by FM DX - after many years as a DX listener and radio amateur. Suddenly there was a sporadic-F opening to the Balkans with first Kastoria, Greece on 88.6 MHz coming through around 1145 GMT with a colossal signal, fading

(Quick cont.) out after a quarter of an hour. It was heard again briefly at 1230 and from 1303 hours for about five minutes, then it disappeared completely. I recorded it on tape and have sent a report. At 1321 to 1325 GMT I heard Radio Novi Sad II on 87.7 MHz with a discussion on the situation in Vojvodina. Signals were not as strong as those from Greece and I made a 4 minute recording. The distance to the Greek station is 2050 km and to the Yugoslav station 1550 km. (here the letter is interrupted briefly). I had to interrupt my writing because the thing happened again. The band was wide open into Yugoslavia and Austria. Heard 8 or 9 Yugoslav stations but positive ID only on Psuni I on 97.3 MHz, because many stations share frequencies in different parts of the country. Got good recordings of Austrian stations Kahlenberg/Wien 91.9, Lichtenberg/Linz 88.8, and Schockl/Graz 91.2 from 1352 GMT to 1414 GMT. The Yugoslavs came and went between 1305 and 1430 GMT and were all over the band from 87 to 99 MHz. I'm shocked!" Let's hope Ullmar decides to join the club!

And finally, we have a few more words from an overseas member, namely Tanio Sugihara (1107-1 Enya-Cho, Izumo-shi, Shimane 693, Japan): "The season of Es and Tr has now arrived here, too, when the F2 and TEP is still extremely good. I have already heard a couple South Korean FM stations by tropo, and a harmonic of VOFC Taiwan by Es. Though I have not heard Taiwanese FM yet this year, my location is very good for Taiwan Es." Tanio is an editor for the Japanese shortwave magazine Tampa. He does the VHF DX column, which includes a few items from the VUD. There's a small English section in Tampa. If you'd like to know more about Tampa magazine, write the Japan BCL Federation, SF UNI Roppongi Bldg., 7 15 17 Roppongi, Minato-ku, Tokyo 106, Japan. Below is the logo Tampa designed for a July 1978 article.



Good to see many WTFDAers at the ANARC convention in Minneapolis. It was quite an affair, tho I was slightly lost in all the talk about shortwave. Maybe next year we'll have better representation on the FM-TV side, hi. Bruce Elving, John Ebeling and I joined in a well-received presentation on SCA and FM DX. Other seminars dealt with the upcoming World Administrative Radio Conference, shortwave propagation, and the several DX programs on shortwave stations. The annual auction for the Handicapped Aid Program brought in around \$2,000. Over 200 DXers were in attendance, with 9 foreign broadcasters represented. All in all, a good time for the many who attended. That's it for this month.....73.....73

NEXT MONTH
in the V.U.D.

BEARCAT 250 SCANNER REVIEW

LOCATIONS OF NEW ZEALAND TV DX TARGETS

HOW TO INTERPET SOLAR ACTIVITY INFO

WTFDA news wire...

Morrie S. Goldman
5815 N. Christiana Ave.
Chicago, IL 60659

1980 PRODUCTS PREVIEW... In addition to my other sources, I scouted around the recent Consumer Electronics Show (the big trade show of the consumer electronics industry) for new products of interest to WTFDAers. Here's a short review... Car radios (or as today's popular buzz word goes, autostereo) were out in force at the show. Many companies have made real improvements in sensitivity, selectivity and signal-to-noise specs. On paper, Pioneer still looks best, but many other companies have offerings that are not far behind. Clarion boasted of a new development called SASC. Based on a new LSI circuit, SASC gradually reduces stereo separation (adds variable blend) on weak stereo FM signals for best S/N. All of this sounds very much like a system that Delco quietly introduced several years ago. Funny how old ideas keep resurfacing as new ones. Old or new, the concept should be helpful. Many autostereo companies are offering radios in the \$300 and up (way up) category, with all electronic digital tuning, Dolby cassette capability and enough power to shake the rust from your doors. All of those bells and whistles might even make the gas lines seem shorter... Home FM receivers and tuners are getting better for the audiophile, but there doesn't seem to be anything new and exciting for the FM-DXer. Sensitivity and selectivity specs are no better than equipment already on the market for several years. In fact the adjacent channel rejection on many of the new units is actually worse than earlier units. The trade off was made to improve harmonic distortion specs... Television sets are also getting better, but most of the action is on better sound quality, picture resolution and reliability. RCA has begun to use a charge-coupled device in the circuitry of its latest offerings, to "increase picture resolution from 260 to 330 lines." They are also offering a microprocessor-controlled auto programmer to permit seven days of advance program selection. Simulated stereo sound will also appear. Marantz has just added its name to the list of companies offering TV sound tuners for connection to a stereo system. The "TV 100" sells for \$185... In the VCR arena, the manufacturers of Beta VCRs are introducing three-speed recorders capable of up to 5 hours record/play. The VHS group upped its maximum to 6 hours. Where it will end, no one seems to know for sure. The special features of the new Beta VCRs discussed in our last column (slow motion, reverse play and fast play) appear to be a Beta exclusive. Prices on the new VCRs will be generally higher. Some discontinued machines have already been advertised at near dealer cost prices. Meanwhile, Toshiba showed off its experimental fixed head (commercial home VCRs have rotating heads) longitudinal video recorder (LVR). The unit appeared to be quite compact and is said to have 1/3 the parts count of conventional machines. It could sell for half the cost of current VCRs. The experimental unit has a one-hour maximum record time and displayed a good, but not great, quality picture. Several other companies such as Kodak and BASF (with Bell&Howell) are known to be developing compact LVR systems... For scanner fans, Bearcat introduced a new VHF-UHF model, the 300, which offers 50 user programmable channels plus pre-programmed standard frequencies for major services.

TUNABLE FM PREAMP BOWS... Leo Boehl sends us a clipping on a new tunable RF amplifier from a new manufacturer, Audio Marketing. The "Magnum FM Power Sleuth" is said to include three RF stages for a maximum gain of 35 dB. No noise figure details were included. The unit is priced at \$150, which sounds rather high. Details are available from: Audio Marketing, 11 Royal Crest Drive, North Andover, Mass. 01845.

DX A SATELLITE FOR \$20,000... John Combs sends news of a new venture by Scientific-Atlanta, called Homesat Inc. For a hefty \$20,000 they'll sell consumers a five-meter (dish diameter) satellite earth station and help out with the appropriate FCC forms. John also sends a clipping from Broadcasting which describes a 3-D TV system being tested in Australia. Viewers wear special glasses, but system is said to be compatible with normal viewing. The Dutch and American backers of the system hope to bring it to the US if results of the two month test are successful. Teletext was the subject of another item from John, but this subject will be covered in detail in a later column.

FREE... B-T offers a 14-page "Galaxy Series Specifications" booklet complete with schematic diagrams of 13 preamps. (Blonder-Tongue, One Jake Brown Road, Old Bridge, NJ 08857)... Winegard has a new catalog, No.179, which features 48 pages of antennas, preamps and accessories... Winegard also has released a 32-page booklet entitled TV Tips. A very wide range of interesting topics are covered. Though the booklet is aimed at the general public, it contains many useful hints. (Winegard, 3000 Kirkwood, Burlington, IA 52601)... From the Electronic Industries Association comes two must-reading publications on solving interference problems. The Consumer Electronics Service Technician Interference Handbooks for Television Interference and Audio Rectification. The AR book should be of help to FM-DXers, while the TVI book is sure to be of value to TV-DXers who have experienced localized interference problems. (Consumer Electronics Group, Electronic Industries Association, 2001 Eye Street, N.W., Washington, DC 20006. Newswire will return in September. 73, Morrie

F₂ SKIP-- WHAT CAN WE EXPECT?

In just a few months, the peak activity of Sunspot Cycle 21 should be taking place. The potential for truly "worldwide" DX in the 30 to 60 MHz range will be reached, and the VHF DXer will be experiencing what will be in all probability the best DX conditions since the late 1950's. In fact, we may even see the legendary activity of the peak of that famous cycle (19) surpassed, due to many factors, not the least of which is the fact that the frequencies above 30 MHz are more heavily used than they were 22 years ago.

During solar activity peaks, the MUF (maximum usable frequency) of F₂ skip rises dramatically, and it affects frequencies above 30 MHz on a daily basis in late fall and winter months. On the most frequently used shortwave bands (between 3 and 30 MHz), F₂ skip is "normal"--it is the major mode of propagation that international broadcasters, utility services, and amateur radio operators depend upon to get their signals across the world.

In years of low solar activity, the daytime MUF in the shortwave (HF) range often remains not too much higher than 21 MHz, even in the peak winter periods. However, in a "good" solar cycle, the MUF rapidly approaches 30 MHz as the peak approaches. In a peak year, the F₂ daytime MUF has no difficulty reaching above 30 MHz--and that's when the fun begins for the VHF DXer.

Just how good will a particular cycle be? Predicting such DX conditions has become a complex science unto itself, and there have been methods developed for reasonably accurate short-term forecasts. However, much remains to be known about our sun. For years, sunspots have been under careful scrutiny by astronomers. In fact, detailed records of them have been kept since the middle of the 18th Century.

We know that the numbers of sunspots increase and decrease in an 11-year cycle. During the part of the cycle when the sunspots are most numerous (cycle peak) the F₂ skip conditions reach their highest MUF of the 11 year period in concern. From what has been observed since the first use of radio early in this century, it seems that the higher the actual sunspot number, the higher the frequency that F₂ skip will propagate.

Solar "super" Cycle 19 activity peak of 1958 reached an unprecedented sunspot number of 203; during this period, the highest ever recorded F₂ skip MUF, around 75 MHz, was reached in equatorial regions (which are most likely to observe high F₂ MUFs). The peak of Cycle 19 was astonishing for VHF DXers; the 6-meter amateur band above 50 MHz became a "worldwide" DX band; TV signals from England were observed in Australia; Hawaiian TV signals on U.S. TV channel 2 were observed in North America, along with many European TV signals. Only three times since the careful observation of sunspot numbers began has the number actually been noted to be over 150!

Prior to the astonishing peak of Cycle 19 in 1958, the previous record number had been at the peak of Cycle 18 in 1947, when it reached 152. The sunspot number hadn't been above 150 since the year 1780!

The late 1960's saw the peak of Cycle 20, and it turned out to be a relative disappointment, given the activity of Cycles 18 and 19, peaking at 120 in 1969. There were a few (very few) instances of F₂ TV DX in the peak period, the last of any significance coming in 1970 on U.S. ch 2. The 6-meter amateur band did provide some long haul F₂ DX for hams, but nothing like the late 1950's DX. British and French TV audio signals were monitored in North America, although those trying for European video were disappointed. It seemed as if the super DX of Cycles 18 and 19 may not occur again for a very long time to many observers. Based partially on the low activity of Cycle 20, some predictions called for similarly low sunspot numbers to occur at the peak of the current Cycle 21. Fortunately, these predictions turned out to be very wrong, as many DXers have already seen!

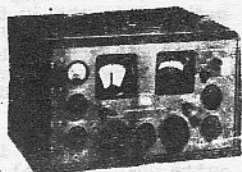
F2 SKIP--WHAT CAN WE EXPECT?

Based upon what F2 DX has been observed so far, the present cycle peak should bring us some great DX. The winter of '78-'79 proved to be far better than most of us had expected. The very frequent (often daily) loggings of British and French TV audio signals above 41 MHz all over North America, plus the 6-meter band openings to the eastern part of the continent from Australia, and the mid-April F2 TV DX event reported from Texas on U.S. channel 2 (ch A2) all point to a super F2 peak activity period this fall and winter.

Already as this is being written in mid-July, F2 is starting to return to the higher shortwave frequencies in northern latitudes. This is happening earlier than expected, and may turn out to be a good sign for VHF DXers waiting for the F2 skip to return to the frequencies above 30 MHz. It had been expected that the signs of F2 in the 27-30 MHz range wouldn't really become noticed until late August in northerly areas!

If you'd like to get in on the great F2 DX that will be taking place shortly, we suggest that you make sure you're ready for it. If you've been considering getting a programmable PSB scanner to monitor 30-50 MHz, now's the time. It's a buyer's market for such scanners; prices have come down on many different units, and there's no a very wide range of them available --practically all of which can tune the 30-50 MHz band with great DX performance. These scanners are more sensitive and selective than most of the multi-band portable tunable receivers on the market.

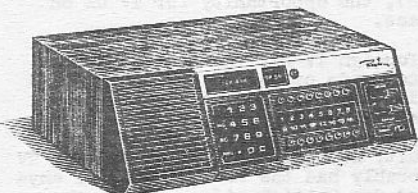
If you really get serious about chasing DX on 30-50 MHz, and want to be able to tune in European TV audio signals, you'll need a receiver that can tune AM signals (PSB scanners are designed primarily for FM signals on 30-50 MHz and won't give the best results when tuned to an AM signal). One such "utility" receiver that has proved popular with W7FDAs is the classic Hammarlund SP-600 series. These "Super Pro" receivers are large tube-type units that have been out of production for years now, but remain really valuable DX machines. Basically, the SP-600's were continuous-tuning general coverage receivers that covered the 540 KHz to 54 MHz range in six bands, and were "professional" quality, with accurate mechanical band-spread, and a double-conversion design. These receivers were great for shortwave DXing, but also tuned the 30-50 MHz range superbly. Few receivers offer as many options to the 30-50 MHz DXer--it even tunes the 6-meter ham frequencies. The SP-600's were among the most selective receivers that featured coverage to 54 MHz, and the sensitivity is so good that harmonics of short-wave broadcasting stations (not images) can be heard with little difficulty when F2 conditions permit. A new SP-600JX-21A (one of the last such receivers made) cost more than \$1,600 eight or nine years ago on the retail market. If you're lucky, you may find one used today for about \$400 at a hamfest fleamarket or DX club convention.



SP-600

For North American DXers, and DXers hoping to hear North American signals throughout the world on 30-50 MHz, a programmable scanner is practically a must. The Bearcat 210 and Regency "Touch" units are the most popular among the PSB DXers in W7FDA, and Sears and Radio Shack both are now offering programmable PSB scanners. With Bearcat and Regency both introducing "new, improved" versions of these units (such as the Bearcat 220, 250, 300, and the Regency Touch K100) You can now find the basic Bearcat 210s and Regency Touch units on the market for less than \$200, as dealers begin to close out their stocks in favor of the newer units. And of course, used programmable scanners are starting to become available.

If you want one receiver that will be able to tune both foreign TV AM audio from Europe as well as the narrow-band FM PSB stations on 30-50, a multi-band portable in the \$50-100 range will work, but will be a compromise.



Regency "Touch"

F2 SKIP--WHAT CAN WE EXPECT?

From the VHF DXer's point of view, the multi-band portable may be fine for receiving European TV audio signals when conditions are good, but the ability to receive the AM TV audio on what is supposed to be a FM receiver is an indication of poor AI rejection characteristics--which means, among other things, that the receiver will have poor noise rejection.

Multi-band portables are most often not selective enough to separate the different audio carrier frequencies used by the TV stations around the 41.5 and 41.25 marks. The result can be frustrating--you really can't begin to identify many of the different audio carriers without adequate selectivity and good frequency readout. This is the same type of problem that the shortwave listener with a poor receiver has to face. Since many of the stations around 41.5 and 41.25 run parallel, and "local" IDs can be rare or non-existent, the serious DXer will need a good receiver such as the aforementioned SP-600 to make an attempt at identifying the various offset frequencies.

In addition to the SP-600, Hammarlund also manufactured the HQ-110, HQ-129, HQ-140X, HQ-150, and HQ-170 receivers, all of which were available in versions with the capability to tune up to 54 MHz, and most of which can be found on the used equipment market in a price range of less than \$100 to over \$400, depending upon the receiver and its condition. In addition, receiver manufacturers such as Ameco and National produced units that tuned up to 54 MHz during the last 20 years or so, and while you may be able to find a used model for a very reasonable price, you should keep in mind that many of these were merely cheap general coverage receivers with coverage of 30 to 54 MHz added on as an afterthought by the design engineer. Consequently, coverage above 30 MHz (and often above 20 MHz) is typically of very poor performance as far as sensitivity and image rejection are concerned--little value to someone looking for DX. Beware!

Let's say you get set up for 30 to 50 MHz DX. What should you expect to hear once the F2 conditions permit? Plenty! In spite of the fact that many PSB users are moving to higher frequencies in the high-VHF and UHF bands to avoid skip interference, there are still thousands of them jam-packed into the 30 to 50 band, all of which are fair game for long-haul F2 DX. On 33 MHz, you'll be able to hear fire departments from 1800-2000 miles distant on a daily basis soon. On 35 MHz, you'll be able to hear radio paging services from the other side of the continent that sound as if they must be "local"--and as the MUF pushes upward, you'll be able to hear all sorts of unusual DX from various utilities, city bus companies, police departments, and even the military. You may even hear two different users of the same frequency in different parts of the continent making humorous and quite unintentional "DX contacts" via F2!

Even with a mediocre receiver, some signals will be easy to hear. As the MUF passes 41 MHz, the European TV audio channels should be a cinch to log from most of North America, and signs of 45 MHz video sync buzz will be common. Whenever the MUF passes 50 MHz, things will be wild on 30-50 with all kinds of short-distance F2 backscatter effects on the lower and middle parts of the band.

If the worldwide F2 MUF reaches 60 MHz or more at times, you'll be able to see the effects of F2 TV DX on U.S. channel 2 (ch A2). However, long before that happens (and many DXers are convinced that it will, based on what has already taken place this year), the opportunity for TV DX on channels below 54 MHz will have taken place.

If you want to see the more exotic foreign TV DX, the best way to go about it is to obtain a TV set for the standards of the country that you'd like to see. There's such a wide variation in international TV standards, this is almost a necessity. Pennsylvania WFFDAer Glenn Jacobs is among the handful of DXers in North America who prepared themselves by actually obtaining a foreign TV receiver. As a result, he was able to view British TV signals successfully last winter, and probably had the best results of anyone on this side of the Atlantic who tried for British video. Most other DXers who attempted ended up with negative pictures and hard-to-sync signals on their U.S. TV receivers. Unfortunately, if you want to log video signals from the European continent with the best chance of success, you'll need yet another receiver, for the 625-line standard.

F2 SKIP--WHAT CAN WE EXPECT?

Unfortunately, obtaining a TV set for foreign standards isn't very easy. In almost all cases, you'll need a special power supply to operate such a unit, due to variations in electrical standards around the world (most of North America uses 110-120 VAC at 60 Hz, while much of the rest of the world uses 220-240 VAC at 50 Hz). Some countries are in the process of converting to all-UHF TV systems for color transmission, such as in the case of Great Britain. Because of this, British 405-line VHF television sets are no longer made. If you're lucky, you may be able to locate a used 405-line set for the British 405-line standard, but they are becoming quite scarce.

Many of the world's 625-line TV systems are similar enough to the U.S. 525-line standard that you may be able to tune them in on F2 skip on your U.S. TV set, provided it has "memory" fine tuning and adequate vertical and horizontal sync range. TV DXers in North America with no local channel 2, or a weak semi-local channel 2, should be watching for signals from Europe and other parts of the world with video carriers on 55.25 MHz. This is ch E3 in much of Europe, and ch 2 in New Zealand, and unlike the VHF systems in England (405 lines) and France (819 lines), most of them are using negative video modulation, the same type of modulation as North American stations.

If you'd like to see British video on a U.S. set, you'll need a converter, which you can build yourself (see future VUD editions) or you may want to buy the British unit described in last month's Mailbox column. Unless you're willing to heavily modify a television receiver though, such a converter may not be the best way to go--you'll still end up with a reversed-polarity picture, due to the fact that the 405-line British system is using positive video modulation. Furthermore, the British converter will require its own special power supply for 220 VAC, and converts the British video signal all the way up to UHF, which may not be the best way to go, considering conversion losses and the poor performance of most U.S. TV tuners.

For DXers in western North America, Australia and New Zealand TV signals should be great DX targets. During the past winter, TV audio from both those areas was logged above 50 MHz in the eastern part of the continent, and heard with very strong signals west of the Rockies. Australia's ch 0 video is on 46.25 MHz, New Zealand's ch 1 is on 45.25, and Australia's ch 1 video is on 57.25--easily accessible with memory fine tuning on a North American TV set. And of course, New Zealand's ch 1 is right on the same video carrier frequency as our own ch A2 in North America. West Coast DXers should do very well--trans-Pacific F2 paths are among the best in the world.

DXers outside of North America (and most of South America) will have to have a set which can tune around 55.25 MHz for the video of ch A2, and 59.75 for audio. Australians and New Zealanders will have a good shot at ch 2 from the west coast of North America, and Japanese DXers will need converters to tune down to ch A2. Fortunately, Japan uses the same type of 525-line system as North America, so if conditions permit, they may even be able to see DX signals on ch A2 in color!

If you have equipment to tune in TV audio signals, here's a list of the frequencies to pay close attention to as the F2 MUF rises:

French language	41.25 MHz	-	France, ch F2	(AM)
English	41.50	-	British Isles, ch B1	(AM)
English	48.25	-	British Isles, ch B2	(AM)
English	50.75	-	New Zealand, ch 1	(FM)
English	51.75	-	Australia, ch 0	(FM)
English	51.75	-	Ireland, ch IA	(FM)
(various)	53.75	-	Western Europe, ch B2 (except France, Italy)	(FM)



FCC FM NEWS

Bruce F. Elving, Ph.D., Editor
Adolph MN 55701

Be sure to use Adolph address until further notice!

This page is starting out shorter than normal because I have a special message at the top for the VUD printer not to overink my column. I am using professional equipment on which to prepare the column, and unless it is perfectly readable to all members, I will quit the column!

NEW FM STATIONS GRANTED

AZ Safford 94.1 100000 h.v.; 320'
 CA Lemoore 104.9 3000 h.v.; 185' rock [R.
 CA Temecula *88.9 10 watts; Valley Pub./
 MI Dearborn *89.3 10 watts Community Coll.
 MO Malden 92.7 3000 h.v.; 180'; m
 NY Gouverneur W261AA 100.1 \$, g (translator
 of WMHR 102.9 Syracuse NY), 1-w, S.
 BC Boston Bay 98.9 (but may have to find a new
 frequency) 91 watts; relay of CKGO(AM) Hope.
 BC Invermere CJAY-FM: 99.7 1 w, r, relay of CJAY
 92.1 Calgary, Alta.
 ON London 92.7 50000 Relay:
 PQ Thetford Mines 91.7 English 250 w CBM
 103.3 French 350 -CBC

DELETIONS

AK Sitka *100.1 (10 - watter)
 MN Austin KEOO *90.7
FACILITIES CHANGES CA Long Beach KNAC
 105.5 has Dolby.
 AZ Tucson KWFM 92.9 46000 h.v.; 35' (410')
 AR Siloam Springs KDKZ 105.7 100000 h.v./
 CA Sacramento KROY-FM 96.9 50000 h.v.; 500'
 CO Denver KHOW-FM 95.7 has DA
 FL Fort Lauderdale WSDO 106.7 100000 h.v.;
 800' DA (directional antenna)
 FL Vero Beach WAVW 105.5 2200 h.v. (300')
 GA Atlanta WKLS-FM 98.1 950' (100000 h.v.)
 GA Milledgeville WXGC *88.9 4300 h.v.; 95'
 MA Worcester WCUW *91.3 630 h.v. (145')
 MN Willmar KQIC 102.5 tests show no vertical
 MT Glendive KIVE 96.5 no vertical
 NH Conway WBNC-FM 93.5 1400 h.v.; 420'
 NY New York WRFM 105.1 7500 h.v.; 1280'-
 first known NYC station with over 500 feet to
 have power and coverage to maximum FCC
 F(50,50) curves at 33 miles primary, 72
 miles secondary. Watch for more!

NC Gastonia WZXI 101.9 33000 h.v.; 870'
 OK Edmond KOKF *90.9 power apparently
 increasing to 3500, but no ht. figure given.
 PA Allentown WMUH from 89.7 to *91.7
 440 h.v.; -3'
 PA Butler WLER-FM *97.7 1150 h.v.; 370'
 SC Greenville WESC-FM 92.5 2000' (100000h.v.)
 SD Mitchell KQRN 107.3 360' (100000 h.v.)
 TN Manchester WMSR-FM 99.7 30000 h.v.; 170'
 TX Abilene KEAN-FM 105.1 100000 h.v.; 820'
 TX Prairie View KPVV *91.3 9800 h.v.; 420'
 VT Plainfield WGRD *91.1 1350, -370'
 WI Suring WRVM 102.7 550' (100000 h.v.)
 ON North Bay CKAT 93.7 68000 h.v.; 267', \$, k

STEREO (S)

AK Kenai KQOK 100.1, k, E
 ID Coeur D'Alene K10B 103.1 rp, "K-103"
 IA Ankeny KANY 106.3
 IA Forest City KIDW 102.3
 IA Marshalltown KJFB-FM 101.1
 IA Mason City KCMR 98.3
 KS Concordia KCKS 95.3; m; tTB
 MN Windom KDOM-FM 94.3
 MN Winona KSMR *90.9, pl, E

NE Alliance KFAH 92.1
 NE Kearney KRNY-FM 98.9; Muzak SCA
 KQKY 105.9 rp (not yet on air)
 NE Norfolk WJAG-FM 106.7; no SCA—it is
 a telemetry carrier only.
 NE North Platte KELN 97.1; Mutual; tX SCA,
 k, but one reporter says rs.
NOT IN STEREO
 OH Wapakoneta WAXC 92.1

NON IDs/SLOGANS

AL Mobile WLRP 96.1 96-FM, not FM-96!
 CA San Diego KPRI 106.5 FM-106
 CO Colorado Springs K1LO 93.9 K1to-94; strict
 CO Morrison-Denver KWBI 91.1 Stereo-91
 CO Pueblo KPLV 98.9 Love-99; strict
 KYNR 99.9 FM-99.9
 FL Jupiter WCEZ 96.7 EZ-97 [9-92]
 FL Miami Beech WWVL 93.9 FM-94 (not Love!/
 IL Chicago WFYR 103.5 FM-103½
 IL Mount Carmel WVJC *89.1 FM-89
 IL Sullivan-Arthur WSAK 106.3 Music-186
 IN Crown Point WFLM 103.9 FM-104
 IN Indianapolis WXTZ 103.3 Stereo 103
 IN Jeffersonville-Louisville KY WQHI 95.7 Hi-95
 IA Burlington KGRS 107.3 Rock-107
 KS Wichita KARD 107.3 FM-107, rm
 LA New Orleans WWL-FM 101.9 FM-102, not
 "Ramparts-102."
 MA Boston WROR 98.5 98½

WROR 98.5 FM

GOVERNMENT CENTER
BOSTON, MASSACHUSETTS 02114

Country
 MN Albert Lee-Austin KAUS-FM 99.9 FM-100/
 MO St. Louis KKSS 107.7 Magic 108
 NH Dover-Portsmouth



WOKQ 97.5 OK-98
 NM Albuquerque KLYT 88.3 FM-88
 KRKE-FM 94.1 FM Rock-94
 NC Burgaw WPJC ("We Praise Jesus Christ")
 99.9 Stereo-100
 OH Chillicothe WFCB 94.3 Stereo-94
 OH Cincinnati WEBN 102.7, Incredibly O-102
 OH Cleveland WCRF 103.3 FM-103
 TX El Paso KINT-FM 97.5 K-98
 WV Charleston WBES 96.1 FM-96
 WI Milwaukee WLPX 97.3 LPX
 WI Superior WSSU *91.3 U-91 (from FM-91)
 WI Wauwatosa-Milwaukee WEZW 103.7 EZ-FM-
 104

(strict)
 ON Toronto CBL-FM 94.1 CBC-Stereo /

SCA (67 kHz) Activity
 IL Alton WZEN 100.3 tX
 IN Gary WGVF *88.7 tTB (not yet on SCA)
 IA Atlantic KJAN-FM tX (from Muzak)
 IA Storm Lake KAYL-FM 101.5 tX (was
 music); main channel M-Fri. stereo.
 KS Colby KXXX-FM 100.3 tX
 MI Ironwood WIMI 99.7 resumes
 occasional sports (baseball) tS
 MO Crestwood KSHS 94.7, no SCA
 MO Florissant KSCF 97.1 no SCA
 MO Liberty KXIF-FM 106.5 talking
 heard, believed to be gospel
 NE Columbus KOKI 101.1 tX, "FM-101,"
 strict nonID.
 WI Tomah WTMF-FM 98.9 no SCA

OFF AIR OR NOT YET ON

MO St. Louis KBDY *88.9
 VT Brattleboro WKVT-FM 92.7

FORMATS/NETWORKS

[Z]
 AL Fairhope WHSP 92.1 g (from st); U (not/
 AZ Phoenix KMCB *91.5 jc
 CA Glendale KUTE 101.9 d
 CO Boulder KBXL 94.7
 FL Titusville WPLO *88.3 gc
 GA Savannah WJCL-FM 96.5 S
 ID Boise KJOT 105.1 k
 ID Burley KMVC 98.3 k (from m)
 ID Jerome KFMA 102.9 U, "C-103," but has
 not even applied for new call letters with a C!
 IL Chicago WLUP 97.9 r (from rp); said to be
 "hard rock," like WMET 95.5 Chicago plays.
 IN Richmond WQLK 96.1 r (from k)
 WRIA 101.3 rp

IA Algona KLAGA-FM 92.7 mk, now on with
 1150 h.v.; 450', and survived tornado that left
 some Algonians dead.
 IA Ames KCCQ 107.1, n
 IA Cedar Rapids KHAK-FM 98.1 E
 IA Cherokee KCHE-FM 102.3 (to go to 92.1)
 r (from mr)
 IA Des Moines KLYF 100.3 U
 IA Estherville KILR-FM 95.9 nr
 IA Fort Dodge KTGA 92.1 CBS, "K-92,"
 KKEZ 94.5, nr
 IH Humboldt KHB7 97.7 A (Not AY)
 IA Newton KLVN 95.9 m (from k)
 IA Waterloo KFMW 107.9 NBC
 IA New Orleans WYLD-FM 98.5 js
 LA Ruston KXKZ 107.5 S, "Z-108." [Radio]
 LA Slidell WXEL 105.3 B (from Z), "Boogie/
 ML Escanaba WKZY 97.1 rm, "Z-97."
 MI Kalkaska WKLT 97.7 k
 MI St. Joseph WIRX 107.1 r (from k); not
 heard in stereo lately, however.
 MN Mankato KEEZ 98.1 S (from E)
 MN Winona KQAL *89.5 A (\$, r)
 MN Worthington KWAA-FM 95.1 S (not U)

MO St. Louis KCFM 93.7 back to m, after being briefly r
 NE Blair KDCV *91.1 m (on summers 8 am to 6 pm; carries some g summer afternoons, r during school year, evenings).
 NE Columbus KTTT-FM 93.5 m
 NE Crete KTAP 103.9 mk, "K-104," strict.
 NE Kearney KDFV *91.3 pj, Stereo
 NE Norfolk KNEB 94.7 Y (not E)
 NE Ogilala KIBC 93.5 (not E)
 NE Seward KSRD 96.9 S
 NM Alamogordo KINN-FM 105.5 k
 NY Syracuse WMHR 102.9 S
 OH Akron WKDD 96.5 rp (not just r, says a reporter whose veracity I tend to question)
 OH Middletown WPBF 105.9 d, "Disco 106"
 PA Hollidaysburg WHPA 104.9 m but varied weekday night formats, incl. j, d, big bands; NBC affiliate for Altoona area.
 TX Killeen KIXS-FM 93.3 Mutual
 VA Charlottesville WUVA 92.7 (not on air), rp
 VA Staunton WSGM 93.5 rp (from m)
 WI Durand WRDN-FM 95.9 U
 WI Menomonee WMEQ 92.1 m (from kt); "Stereo 92," now on with 1300 h.v.; 430'
 WI Portage WDDC 100.1 r (not m); "C-100"

CALL LETTERS
 CA Fremont 104.9 KDOS (KFMR)
 CA San Diego 103.7 KJOY (KOZN)
 CO Burlington 104.1 KNAB-FM
 CO Denver 98.5 KYGO (KIMN-FM)
 GA Homerville 105.5 WBTV
 ID Boise 104.3 KIDD (KNFR-FM)
 IL LaSalle 99.3 WAJK (WLPO-FM)
 IN Vincennes 96.7 WRBT (WAQV-FM) S?
 IA Harlan 105.5 KNOD z-z-z-z?
 IA Waterloo 105.7 KCRB (KXEL-FM), but x still "X-Rock"
 KS Arkansas City 106.5 KBUZ
 KY London 103.9 WWEL (WFTG-FM)
 MA Acton *89.1 WHAB
 MA Cambridge *88.1 WMBR (WTBS), 100', 200 watts
 MA Pittsfield 95.9 WUPE (WUPE-FM)
 MN International Falls 94.3 KSDM
 NE Omaha 94.1 KYNN-FM (KOWH-FM) k (from s); Mutual. No S, says 1 reader.
 OR Baker 95.3 KBKR-FM
 PA Jersey Shore 97.7 WYBT
 TX Del Rio 94.3 KLKE (KDLK-FM)
 TX Refugio 106.3 KYOT
 UT Vermilion 92.7 KUIN (KVEL-FM)

VA Lynchburg 100.1 WKZZ (WVOD-FM)
 WA Seattle 101.5 KPLZ (KVI-FM)
 AT Edmonton 97.3 CTRK "FM" (CJCA-FM), rp, "K-97."

ABBREVIATIONS

Program codes: c classical, d disco, g gospel, j jazz, k country, m middle of the road (no rock), p is progressive rock, r rock, s soul. Networks: A ABC-FM (where ABC stands for the American Broadcasting Company radio network; FM for frequency modulation), B National Black Network, C Columbia Broadcasting System radio network, E ABC Entertainment Network, I ABC Information network, M Mutual Broadcasting System, N National Broadcasting Co., P National Public Radio, S Associated Press Radio, U United Press Radio, Y ABC Contemporary, Z Mutual Black Network.
 SCA symbols, following T: m music, s sports or special events, t talk, X is teleprinter or audible teletype.
 \$ is an FM radio station transmitting in stereo, h is horizontal effective radiated power in watts, v is vertical (or circular) effective radiated power, w, t is SCA (usually a 67 kHz subcarrier from the main channel).

READERS' REPORTS

Because of the late arrival of the June VUD, it is uncertain at this point if I will rearrange my computer cards. Perhaps at some future date the offer will be revived.
 On June 18, WMRI 106.9 Marion IN had shifted to 107.1, permitting IN reception of WMRN-FM 106.9 Marion OH. Also heard off frequency: KMJD Castle Rock CO on 91.7, instead of 92.1. The new Coeur d'Alene, ID station will be stereo, and apparently will not identify as K-103 [KIOB 103.1]. **KIOB FM-STEREO 103.1 MHz**

Our Florida reporter, John Combs, says he heard by skip a new station in northeast Mexico on 89.1, giving a non-ID, "Sonida-89," r and d. This was during an opening to Harlingen-Matamoros and Monterrey.
 John also says WUSF *89.7 Tampa runs half an hour of talking book on the main channel as a "teaser" with an invitation to inquire about obtaining a "special radio" to receive the "sub-channel." WCKO 102.7 Pompano Beach FL has some French programming Sunday mornings.

CFMX 103.1 Cobourg ON is actually on the air, 117000 h.v.; 646', stereo, but with an unknown musical format. Bill DuMagne says they have quite a signal, getting into Barrie, London and Kingston, but they still have breakdowns now and then!

In Wisconsin, a Madison reporter heard a "WCGM FM-96," playing contemporary gospel music. "They are on in the early evening hours only. . . They are a part of the Shalom Christian Center, 1725 Monroe Street, Madison WI 53711." KAYL-FM 101.5 Storm Lake IA now parttime stereo, but fulltime with S generator on. They dropped their former music 41 kHz SCA, now only "X" at 67 kHz. To my knowledge, KAYL-FM was the only station using 41 kHz for SCA west of the Mississippi, and I was in the area recently with 41 kHz equipment to set up on their frequency, but alas they were inoperative.

"Stereo Ciento 100.7 Monterrey, Mexico is Stereo Rey," with Spanish and English and an announced 40 kw ERP, according to a tape Rick Samford sent to Mike Dornier, Jr. Mike comments on the Mississippi EFM situation:

My understanding is, that if the reports are correct, the problems antedate the FCC ruling. The Mississippi commercial broadcasters are very anti-when it comes to noncommercial radio. Then, Mississippi is rightly known as the most backwards of all the states, so I doubt that there is much of an audience for other than country and rock music. Next, the population of the state is comparatively small when compared to other states and, I believe, highly rural. Educational attainment is poor and the schools are mediocre. Receptivity to new ideas is slight. All this militates.

We'll of course, give Mississippians equal space to respond! Back to Monterrey, it looks like a new Stereo Rey station could not operate on 100.7, with XHMG on 100.5 and XHIL on 101.3. I wonder if Rick and Mike might be referring to XHMG 100.5, and not a new entity on 100.7.

Not off frequency any more: WERG Erie PA now on 89.9, not on 89.5 where Peter Sawatzky heard them. I just received my radio with the SCA installation, and I am quite pleased with the results. As it turned out, you suggested that installation inside the radio usually is preferable to an MPX jack or using the earphone or headphone jack, and it seems that this is true, says Staten Island's Andy Blatt.

Michigan's Phil Boersma noticed the new FM station grant to Dearborn at 18 kw at 60 feet, but this must be an error. Its construction costs, etc. are more those of a 10-watter, and 18 kw would be too disruptive of other stations in the area, so let's leave it at ten watts! Phil sent along a WKJR-FM 101.7 coverage map.

Two FM station applications on file with the FCC recently gained some publicity. The same company is applying for 99.5 Mountain Pass and 98.1 Yermo, both CA, with coverages designed primarily for travelers along I-15, and not for the local residents of the small towns. Formats would be m, with studios at Yermo. Ad rates would be high, and geared for some 300,000 people weekly who travel this highway that lacks much radio reception between Los Angeles and Las Vegas. These stations would have close to maximum Class B coverages.

CONTRIBUTORS: Andy Blatt, Staten Island NY; Phil Boersma, Muskegon Heights MI; John F. Combs, Orlando FL; Bill DuMagne, Colborne, Ont.; Richard Eddie, St. Louis MO; Bob Gilbert, FM station logo freak from Portsmouth N H; Joel Hermann, Storm Lake IA; Mike Dornier, Jr., Metairie LA; Joseph M. Mangiacarne, Altoona PA; Gary Olson, Lake Forest IL; Eddie Scott, Hancock Field [Syracuse] NY; Ralph Strobel, Muncie IN; Peter Sawatzky, Guelph, Ont.; R. G. Thwaites, Madison WI; John Timm, Milwaukee WI; Jeff Tomosin, Los Alamitos CA; Richard E. Wood, Cape Girardeau MO; Neil G. Zank, Lincoln NE. John Zondlo, Hammond IN. Also, a few contributions I picked up myself on my travels.



TV NEWS

John F. Combs
2485 Ivan Ct.
Orlando FL 32807
305-677-0066

August 1979

NEW STATION ON-AIR

KBME-3 Bismarck ND PBS 6-8-79

CONSTRUCTION PERMITS GRANTED

Jacksonville FL, Ch. 47-, 1660, 1000
Mt. Vernon IL, Ch. 13+, 275, 960
Conway SC, Ch. 23+ ETV, 955, 820

APPLICATIONS FOR NEW STATIONS>(*pay-TV)

Boulder CO, Ch. 14, 100, 77
" " " " " " 2820, 1564
Broomfield CO, Ch. 14, 1000, 1050 *
Denver CO, Ch. 20, 3148, 2548
" " " " " " 2300, 1158 *
" " " " " " 5000, 831 *

Hartford CT, Ch. 61+, 5000, 955
(see comments later in column)

Hays KS, Ch. 14 ETV, 1220, 1320

Omaha NE, Ch. 15, 804, 512

" " " " " " 1175, 1109

CHANGES GRANTED IN OPERATING STATIONS

KDTV-14 San Francisco CA to 2570, 1250

KCSM-60 San Mateo CA to 1550, 1210, move xmtr

WTVX-34 Ft. Pierce FL to 5000, 1490

WVNE-31 W. Lebanon NH to 2240, 2220

WSKG-46 Binghamton NY to 1200-kw

WLIO-35 Lima OH to 513, 540

KVCW-57 Richmond VA to 1000, 960

WLRE-26 Green Bay WI to 2.1, 660

CALL LETTERS ASSIGNED

Valdosta GA, Ch. 44-, WVGA

Salisbury MD, Ch. 47 : WMDT

Oklahoma City OK, Ch. 34-1 KGMC

Abilene TX, Ch. 32+ : KTAB

CALL LETTERS CHANGED

KPNX-12 Phoenix AZ (ex-KTAR)

WTOV-9 Steubenville OH (ex-WSTV)

SUBSCRIPTION-TV GRANTED

WXON-20 Detroit MI, on temporary basis:
6-21-79 until 9-19-79

SELECTED TRANSLATOR CFS GRANTED

Bakersfield CA, Ch. 39 (KFTV-21), 1000

Denver CO, Ch. 31 (KMEX-34 microwave), 1000

*Hartford CT, Ch. 61 (WXTV-41), 1000

Columbia MS, Ch. 45 (WMAH-19), 1000

Philadelphia PA, Ch. 35 (WXTV-41), 1000

Austin TX, Ch. 42 (KMEX-41), 1000

(*see comments later in column)

SELECTED TRANSLATOR APPLICATIONS>(*satellite

Denver CO, Ch. 57 (KTEN-40*), 1000 pick-up)

Donnelly/Kerman MN, Chs. 57, 59, 61 (KTHI-11,

KMSP-9, KDLO-3), 100 each

St. James MN, Ch. 32 (KSTP-5), 1000

Oklahoma City OK, Ch. 14 (KTEN-40*), 100

Richmond TX, Ch. 45 (KTEN-40*), 100

Craddockville VA, Chs. 36, 52, 58, 63, 68 (1000

(WYAH-27, WHRO-15, WTAZ-3, WAVY-10, WVEC-13),

Onancock VA, Chs. 19, 25, 41, 44, 60 (WYAH-27,

WAVY-10, WHRO-15, WTAZ-3, WVEC-13), 1000

Tangier VA, Chs. 46, 48, 54, 56, 65 (WHRO-15,

WYAH-27, WAVY-10, WTAZ-3, WVEC-13), 1000

Seattle WA, Ch. 22 (KTEN-40*), 100

(*all KTEN-40 applications are satellite

pick-up)

(Also this week: 29 new ETV xltr applica-

tions in Idaho, too numerous to list!)

APOLOGIES again this month (seems as if I'm always apologizing, HI!) for an oversight on my part. After researching the above information at the UCF library, I found that I had neglected to research the former powers and antenna heights for the stations listed above under "Changes." These are of value in assessing the potential impact of the change on area DXers. I also neglected to check the current "State of the Industry" figures. All this due to a combination of lack of time, approaching deadline, and general absent-mindedness on my part!!

TAKE NOTICE! of this month's translator information! Trinity Broadcasting wants several new translators to rebroadcast the KTEN-40 satellite feed. Will the FCC, still pondering over the implications of satellite translators, deny the move or simply shelve it for awhile? Spanish International Network has been granted 5 1000-watters, including Ch. 61 in Hartford, for which a full-power UHF application was recently made. Will the FCC deny the 5-megawatt application, or "bump" the SIN xltr to another channel? ("Tune in next time...") And note the vast number of Virginia xltr applications (good targets for East Coast DXers) as well as the 1000-watt Ch. 45 in Columbia MS (for which this editor will be diligently watching! Then again, I'm still waiting for W70AU.....).

CP continues to gain in popularity. KWTK-10 is going, or has gone, circular, according to an ad for Cetec Antennas in Broadcasting. I would like to suggest that those who live in areas with CP transmitters jot down their observations on the effects and mail them to me, perhaps enabling a future article on the subject to be compiled.

ABC PLAYS ROBIN HOOD, but robs from the poor to give to the rich (ratings-wise, that is!). WFTN-2 in Dayton, whose contract with NBC expires Dec. 31 of this year, has expressed interest in negotiating with ABC about the possibility of affiliating with the #1 network. ABC had contacted them in reference to the possible switch after becoming increasingly dissatisfied with WKBP-22's news department. It seems the station didn't even clear time for "World News Tonight" until September of last year, and doesn't even have a "hard news" show. They opt, instead, for a magazine-type program titled "Evening." Meanwhile, ABC continues to state (contradictorally) that they are "satisfied" with their present line-up of affiliates!

MONEY MAY NOT BUY LOVE, but it can buy call letters! Believe it or not, Ted Turner offered WTBS, a 10-watt educational FM in Cambridge MA, \$50,000 to relinquish their call letters. Turner wants WTBS to stand for Turner Broadcasting System. The FM got \$25,000 to change their calls (now WMBR) and will get the other \$25,000 if and when the FCC grants Turner the use of WTBS! (At this point, nothing Uncle Ted does would surprise me!). CONTRIBUTORS NEXT TIME (no more room!)....73, JOHN.

QSL CORNER

Thomas J. Yingling, jr.
221 Pinewood Road
Baltimore, MD 21222
Deadline: 10th
Phone # 1-301-282-5649

FM-QSL

- AZ KJOK 93.1 Yuma, send memo pad sheet & penciled note & data sheet, from John Gaboury, CE in 2 weeks. Din't specify date of reception. Wood
- CO KHOW 95.7 Denver, specific letter on attractive letter in 1 week from Hue Beavers, CE Wood
- KTCL 93.3 Ft. Collins, P. O. Box 2204, 80522. Very direct letter in 1 week & half-write to the point, one whole sentence long. Illeg veris signer, & bumper stickers & maps. Hascall
- KIIQ 102.7 Manitou Springs, Friendly letter from Jack Bullet, program director noting that they have received many reports from various states. Elving
- IL WJKL 94.3 Elgin, Box 117, 60120. Letter from Hal Catron, CE. Eddie
- WLOO 100.3 Chicago, 875 N. Michigan Ave, 60611. Letter from David E. Rollins. Eddie
- IN WETL 91.9 South Bend, letter from Howard N. Uhrig, General Manager send a non-specific letter with fact sheet & log sheet in 10 days. Simon
- MT KIVE 96.5 Glendive, very specific letter, rate card & data sheets from Larry F. Bell, CE in 1 week. Wood
- MI WFMK 99.1 East Lansing, Box 991, 48823. Letter, map, & key ring from William M. Savage, Continuity Director. Yingling
- WIMI 99.7 Ironwood, 222 S. Lawrence St, 49938. Letter from Sherman Clapman, Chief Engineer for my first Michigan FM. Yingling
- MS WQST 92.5 Forest, Letter, bumper sticker & rate card from Bill Wilbourne, General Manager back in 1 week. Alexander
- WJNS 92.1 Yazoo City, P. O. Box 1048, 39194. Letter, coverage map & map of Yazoo City area & brochure on the area's history. Reply from Joel Netherland, President & General Manager back in 1 week. Alexander
- MO KUMR 88.5 Rolla, University of Missouri-Rolla, G-6 Library, 65401. Lengthy letter from Jeffrey R. Stoll, CE "...enjoy receiving reception reports from D.X.ers." Got a second letter from Linda Flentje, Promotions Manager requested my signature for permission to copy my letter in their program guide (permission, naturally, granted). Sawatzky
- KCOV 88.1 Columbia, 101 F Pershing Hall, University of Missouri, 65201. Letter from Lawrence Hallenbeck, CE. Eddie
- NE KICS 93.5 Hastings, P. O. Box 1005, 68901. Informative, friendly letter from Dan, Small, CE "...its' not to often we get skip of such a long distance." reply in 1 week & half with coverage map. Hascall
- KSID 95.3 Signey, Very specific letter from Davis S. Bryant, Technical Advisor. Enclosed Xerox of postcard report—the most distant— received from a Mike Clark in Carmel Valley, CA. Reply in 1 week. Wood
- OH WLYK 107.1 Milford, P. O. Box 218, 45150. Letter from Mark Jordan, Station Manager "We are always glad to hear from FM DXers." Hascall
- WLOR 101.5 Toledo, received a folder—letter from Rick McDonald, Program Director in 2 weeks. Yingling
- WFOB 96.7 Fostoria, received letter, coverage map & key ring from Allen Gabel, "It was good to hear that you heard us; especially since I had the air shift during the time you picked us up." Yingling
- TX KNRO 106.9 Conroe, P. O. Box 68, 77301. Letter, sticker & business card from Errol R. Coker, General Manager & CE in 2 weeks. Sawatzky
- KLYX 102.1 Houston, 3100 Richmond Ave. (#210), 77006. Letter from Leroy Dietrich, CE. "I posted a copy of your letter on the station bulletin board so the staff could take a look." Sawatzky
- KNFM 92.3 Midland, 2001 W. Wall, 79701. Letter & copy of letter of DX'er Rosser J. Smith, jr. in Hendersonville, NC. Sawatzky
- KETR 88.9 Commerce, P. O. Box 88, East Texas Station, 75428. Letter & info sheet from Bonifacio Fraustro, CE. Sawatzky

Reporters this time are: Richard E. Wood, Cape Girardeau, MO; Dave Hascall, Fortville, IN; Richard T. Eddie, St. Louis, MO; Jim Alexander, Parsippany, NJ; Peter Sawatzky, Waterloo, Ont; Bruce Elving, Duluth, MN; Ken Simon, Lake Worth, FL & Tom Yingling, editor—Baltimore, MD. I hope everybody that made it to Baltimore for the convention enjoy themselves. I had fun in planning it, and seeing that it ran smoothly. 73's Tom

IN SEARCH OF



Donald L. Blevins
1715 Earhart road
Baltimore, MD 21221
301-574-2714

IN SEARCH OF PSB.....This month's feature will illustrate none other than the convention site city, namely Baltimore. Hoping to see you after the convention either in person through your contributions.

Anne Arundel County.....County Seat Annapolis

Channel 1	494.3125	Northern District	MTL 670	
Channel 2	494.3625	Central District	MTL 670	
Channel 3	494.4125	Southern District	MTL 670	POLICE
Channel 4	494.5125	Detective	MTL 670	
Channel 5	494.4625	Teletype Info	MTL 670	
	154.28	Mutual Aid	KGD 479	
Channel 1	154.01	Dispatch & Ambo	KGD 479	FIRE
Channel 2	154.34	Fireground & Call Back	KGD 479	
	39.98	Sheriff's Depart	KGB 645	SHERIFF
	159.21	Annapolis City	KGA 921	POLICE

Baltimore City

453.05	Southwestern District	KGA 410
453.20	Citywide #1	KGA 410
453.275	Eastern District	KGA 410
453.30	Citywide #2	KGA 410
453.425	Central District	KGA 410
453.525	Northeastern District	KGA 410
453.625	Western District	KGA 410
453.725	Internal Security	KGA 410
453.775	Southeastern District	KGA 410
453.825	Northern District	KGA 410
453.925	Northwestern District	KGA 410
453.975	Extra Channel	KGA 410



POLICE



154.31	Fire Dispatch	KGC 220
154.37	Fireground	KGC 220
154.445	Channel #3	KGC 220
154.145	Ambulance	KGC 220
154.28	Mutual Aid	KLP 969



Baltimore County

Channel A	39.42	Garrison	KGA 340
Channel B	39.44	Dundalk/Edgemere	KGA 340
Channel C	39.56	Countywide	KGA 340
Channel D	39.62	Wilkens/Woodlawn	KGA 340
Channel E	39.72	Cockeysville/Towson	KGA 340
Channel F	39.84	Essex	KGA 340
Channel G	39.96	Fullerton/Parkville	KGA 340
Channel H	39.78	Detectives/Mobile	KGA 340

POLICE



Channel 1	46.46	Dispatch	KGC 337
Channel 2	46.28	Ambulance	KGC 337
Channel 3	46.52	Fireground East	KGC 337
Channel 4	46.56	Fireground West	KGC 337

45.72	Highway Department	
33.06	Sanitation	LOCAL GOVERNMENT
45.12	Animal Control	

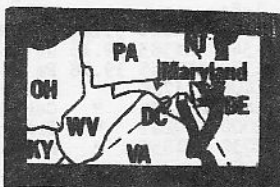
Howard County

Channel 1	KGG 527	159.09	Police
Channel 2	KGG 529	155.595	Police
Channel 1	KGG 529	154.25	Fire Dispatch Repeater
	KGG 529	154.28	Mutual Aid
	KAN 568	154.22	Fireground
	KVA 486	37.26	Local Government
		151.115	Highway Departme

State of Maryland

39.10	Statewide--Cumberland--Oakland
39.14	Channel 5 Annapolis--Glen Burnie--Prince Fredrick
39.22	Marine Police
39.24	Centreville--Easton--Salisbury--Berlin
39.26	Fredrick--Hagerstown
39.30	Forestville--College Park--Leonardtwn
39.32	Westminster--Waterloo
39.34	Belair--Northeast
39.38	Valley--Randallstown
155.475	State Police Point to Point
453.10	Key Bridge & Tunnel Thruway
453.575	Bay Bridge & Susquehanna River Bridge
453.975	Potomac River Bridge
154.725	Port Authority

POLICE



151.205	Natural Resources Police	Game Wardens
151.31	Park Rangers & Operations	
151.415	Park Rangers & Operations	
159.45	Forest Rangers & Parks	
151.28	Maryland Park Police	
159.315	Maryland Park Police	

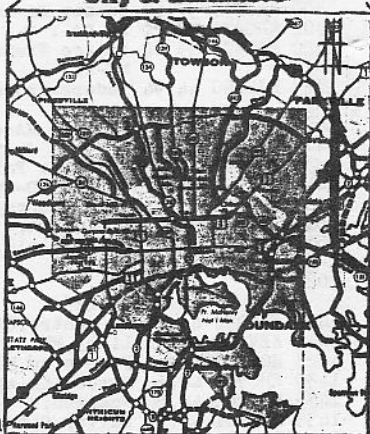
United States Government

169.85	Postal Inspectors
167.4525	FBI Baltimore Field Office
167.6575	FBI Baltimore Field Office
163.9625	FBI Baltimore Field Office
165.2875	US Customs
165.2375	US Customs
163.5625	US Army
163.4875	Bolling Air Force Base

Baltimore Gas & Electric

153.44	Gas Trouble
153.575	Gas Trouble
153.605	Electric Trouble
451.10	Commercial Service
48.08	Storm Trouble
48.22	Electric Overhead
47.86	Central Substation District
47.96	Southern Substation District
37.70	Meter/Gas Construction/Underground

City of Baltimore



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 5th of month

AUGUST 1979

G. DuBois, 10048 NE Campaign, Portland, OR 97220 Bearcat 210, Regency Whamo, A7S MON-8, Hy-Gain MR 18; PDT used ".representative of typical activity."

5-22:				5-23:	
2030 KMA628	39.14	et al. LA, CA-cp		2306 KOG982	39.82 Twin Falls, ID
-	35.38	LA, CA-mp		5-28:	
	35.46	" " "		1907 KXC989	39.82 McCook, NE
2248 KOF344	39.82	Sheridan Co., MT-cp		6-3:	
5-23:				1643	- 35.46 San Diego, CA-mp
2216 KSM883	37.08	Yell Co., AR		6-5:	
2223 KKD335	39.50	Franklin Par., LA		1824 KOB697	39.82 Red Lodge, MT
2305 KOE890	39.82	Boulder, MT			

Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, MD 21222
Bearcat 210, 101, Lafayette PF-300; Shakespeare "Big Stick" ant.; EST

1-7:				1-28:	
1623 KOB651	39.82	Hamilton, MT-cp		1000 TF	41.25 Troyes, France
1700 KOA287	"	Choteau, " "			41.225 Bastia, "
1705 KOH226	"	Murphy, " "		1100 BBC	45.00 (video buzz)
1-8:				1115 BBC	48.25
1341 KMA224	39.24	San Rafael, CA-cp		1200 -	48.25 (video buzz)
1345 KAW383	39.16	Novato, " -p		1400 KMA389	39.54 Quincy, CA-cp
1350 KBT355	39.18	Pa xer, AZ-p		KOA745	42.92 Portland, OR-sp
1400 KCI726	"	Sierra Vista, AZ-cp		1410 KOA315	42.90 Newport, " "
1405 KOA294	"	Centerville, OR-cp		1415 KFA409	42.34 Bakersfield, CA-sp
2000 KQG249	"	Bridgewater, NJ-cp		1420 KOA766	39.82 Superior, MT-cp
2030 KYI857	"	Hagerstown, MD-cp		2-3:	
1-9:				1238 KOG907	39.82 Butte, MT-cp
1600 RFI	41.115/.225/.265/.430			KVN704	" Bozeman, "
BBC	41.50	Crystal Palace		1239 KJE244	" American Falls, ID-cp
KDT393	39.82	Billings, MT-cp		1250 KOE931	" Whitefish, MT
1642 KOG986	"	Goodings, " "		1255 KOE271	"
1-25:				1400 KDE682	42.82 S. Juan Bautista, CA-sp
1800 KAG238	37.10	Downey, CA-an. c.		1410 KMC927	42.12 Mariposa, CA-sp
1802 KDG872	33.70	LA, CA-f		1420 KXZ663	39.82 Livingston, MT
1820 KCO372	33.82	Prince Frederick, MD-cf		1430 KJF470	" Blackfoot, "
1825 KJE260	44.94	Independence, KS-sp		2-5:	
1-26:				0945 KMG428	42.50 Garberville, CA-sp
1400 KOB534	39.94	Spokane, WA-cp		1220 KMD770	" LA, "
1410 KOB236	39.74	" " -p		1230 KML956	42.40 Needles, " "
1436 KOE271	39.82	Columbia Falls, MT		1236 KME264	42.44 Barstow, " "
1440 KOS562	"	Weiser, ID-cp		1250 KOA216	39.82 Great Falls, MT
1500 KAA522	42.06	Willow Spgs, MO-sp		1300 KOF476	" Phillipsburg, "-cp
1510 KAA204	"	St. Joseph, " "		1301 KOA722	" Missoula, "
1515 KAA243	"	Springfield, " "		1310 KSZ771	39.84 Garnet, "
1-27:				1740 KOA824	39.82 Big Mountain, "-cp
1026 BBC	41.50			1742 KOA534	39.82 Spokane, WA
TF	41.25/41.225			2-9:	
1408 KMD934	42.34	El Centro, CA-sp		0950 BBC	41.50 Crystal Palace
1419 KEV428	39.82	Libby, MT		1000 TF	41.25 (1012, 41.225)
1423 KOA810	"	Ft. Benton, MT-cp		1030 KFD671	33.90 Seattle, WA-cf
1430 KMC983	42.34	Merced, CA-sp		KOA748	" " "
1435 KMC985	42.50	Modesto, " "		1100 KJY911	42.12 Sunol, CA-sp
1436 KMA801	42.56	Culver City, " "		1103 KFV496	42.08 San Francisco, ""
1440 KMC983	42.88			1110 KMD496	42.08 Willow, " "
1500 KME357	42.12	San Diego, " "		1110 KJK725	" Oakland, " ""
1-28:				to KKC875	" Ramona, " "
0930 BBC	41.50			1130 KMA448	" Sacramento, " "
				KMB435	" Bishop, " "

VHF UTILITY DX

AUGUST 1979

(Yingling, cont.)

2-9:				2-19:			
1110	KME357	42.08	San Diego, CA-sp	0930	TF	41.25	Bastia
	to				BBC	41.50	Crystal Palace
1130	KMB522	"	Santa Cruz, " "	1000	-	41.25	Spanish (upset by BBC QRM)
2-10:				2-21:			
0900	BBC	41.50	Crystal Palace	0850	TF	41.225/41.25	
	TF	41.225/41.25		0900	BBC	41.50	Crystal Palace
1050	-	41.1	R. Nederland-ha	1030	BBC*	48.25	N. Hessary Tor
1100	BBC	45.00		1700	KOB732	39.82	Newport, WA-cp
1115	BBC	48.25	N. Hessary Tor, UK	1720	KLP930	39.94	Fresno, CA-cp
	-	48.25	(video buzz)	1730	KOE568	39.82	Polson, MT-cp
1130	-	49.75	(video buzz)	1732	KMA389		
1300	KMA438	45.10	San Fran., CA	1740	KBT579	42.88	San Diego, CA-sp
1310	KMA752	45.14	Orange, "	1745	KMD908	"	Santa Rosa, " "
1312	KBI880	45.32	McMinnville, OR-cp	1750	KWQ651	"	St. Helens, OR-sp
1320	KMD639	46.06	Santa Ana, CA-cf	1753	KME543	"	Susanville, CA-sp
1330	KMA526	46.46	San Fran., "-f	1754	KDL479	"	Keddie, " "
1350	KFD601	45.78	San Mateo, "	1757	KOA598	42.94	Salem, OR-sp
1400	KTX746	45.32	Klamath Falls, OR-cp				(f-fire (c-county), an.c. - animal control, p-police (c-sheriff, s- state; mp-mobile phone; ha-harmonic)
1450	KFR41	33.66	Hanford, CA-cf	- -	KOE568		
1445	KMA438	45.14	San Fran., "				
1500	mobile	43.26	Seattle, WA-mp				
addenda:							
1-14:	KYG375	39.76	Nevada City, CA-cp				

Martin J. Theil, 12 Princeton Dr. E., Holiday, FL 33584 week of June 17-23, Bearcat 250 and 210 with rod antenna

KQA216	33.90	Cleveland, OH	KGE734	33.78	Lock Haven, PA
-	39.50	Upper Darby, PA	-	33.90	West Grove, NJ
-	39.46	Montgomery Co., PA	-	162.40	Tallahassee, FL
-	33.78	Millburn, NJ	KGC755	33.90	Lancaster, PA
KSB235	42.56	Maryville, IL	KGE651	39.46	Mercer Co., NJ

Now, my loggings. Hallicrafters SX-62 with 30' wire @ 12' nw-se run; F2 unless noted (* Es), GMT used

6-6:			6-13:		
1945	32.96	Spanish (Argentina?)	0000	37.000	Spanish:2055 35.22 Sp.
6-7:			6-20:		
1629	30.475	Espinal, Colombia-ha	2005	30.30	
1955	36's	Spanish	7-3:		
6-9:			0028	30.30;	1945 35.22 Spanish
1810	35.22	Spanish (Argentina?)			(tp-tone pager)
6-12:					(Due to Es not able to keep close tabs on Latin American F2 MUF's)
0028	KLF527	35.22 Honolulu, HI-tp			
0040	KOE257	35.22 Phoenix, AZ-tp*			

In June the solar flux hit a Cycle 21 high of 245 (9th) but by the 23rd it was down to a low for the year of 135. Average of over 180 best since March. Smoothed of December at 166.

50 Mhz news: May 8 0837z JRLSQU (Japan) to VU2RM (India); Jun 9 (05-06z) multi-Es California to Japan; (Jun 24 2300z 2-m Es W4 to W5); Jun 29 (2100-2300z) Hawaii into VE1, W1-4.

Due to a month-long trip to visit relatives in Queensland, Australia the September column will be a bit different than normal. I hope to be able to get some DXing done and might be able to have it in the VUD before the October issue.

NORTHERN FM-DX

Ralph Strobel, editor
2510 E. McGalliard Rd.
Muncie, Indiana 47303

Deadline: the 10th

August 1979

For FM DXers in Canada, the North-West-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon Line.

Leo Boehl - 622 W. Koenig - Grand Island, NE 68801

This is my first report to an FM DX column. Since I can't afford my own idea of a decent UHF set-up yet, I picked up a Scott 530T tuner (my first FM that wasn't a portable or car rx!) Other equipment: Channel Master Quantum #1112 (VHF-FM) at 35 feet, AR22SL rotor, Channel Master O263B preamp. \$ - stations listenable in \$.

6/13 tr		6/14 tr	
2240 KMKF 101.7 KS Manhattan ID	145	1110 KXCV 90.5 MO Maryville g, ID	185
2320 KFDI 101.3 KS Wichita ID	230	1115 KYYS 102.1 MO Kansas City "102" \$	235
2340 KBEQ 104.3 MO Kansas City ID \$	235	2210 KRCC 106.9 MN Rochester ID #!	350
6/14 tr		2255 KKEZ 94.5 IA Fort Dodge ID	225
0000 KFIX 106.5 MO Liberty ID N nx	235	2320 KUNI 90.9 IA Cedar Falls ID \$	300
0010 K3FT 105.1 MO St. Joseph "K-105" 200	ph# 273-6400; also a toll free # "FM-91"		
0025 KSYN 92.5 MO Joplin	300	6/15 tr	
"Sandman Forum"		2100 KSKU 102.1 KS Hutchinson ID \$	200
After 6/15, tropo really went dead, even Omaha TV (150 mi.)			
	73, Leo		

Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68510

Equipment: Pioneer SX-750 Receiver, Archer 10 element FM Yagi at 45 ft. w/CD rotor

6/8 Es		6/14 tr	
2015 KRIX 99.5 TX Brownsville d		2200 WTMB* 98.9 WI Tomah wx	
2058 WHOO* 96.5 FL Orlando nx		6/15 tr	
2100 WFUZ 93.7 FL Ocala baseball		0105 WLXR 104.9 WI La Crosse k	
2102 WMJX 96.3 FL Miami d		7/1 tr	
2115 WPCV 97.5 FL Winter Haven k		0045 KDRB 95.9 KS Derby	
2130 WRYP 98.5 FL Crystal River g		0100 KMKF 101.7 KS Manhattan r	
2135 WLQV 98.7 FL Ft. Pierce ads		0115 KEYN 103.7 KS Wichita r	
2145 WPFM 107.9 FL Panama City ads, ph#		7/2 tr	
6/14 tr		0100 KHCC 90.1 KS Hutchinson j	
2130 WJML 98.9 MI Petoskey r		* indicates relogs.	
	None of the 6/8 Es reports have verified so far.		

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

Equipment: Heath AJ-15 or Sony ST-5130, 10 element Yagi, horizontal & dipole for vertical. Times are CST. New underlined.

6/5 Es		6/19 Es	
1900 XHEC 91.9 CoaSabinas music on SCA		1800 KXTC 92.3 AZ Glendale r	
1902 KRKE 94.1 NM Albuquerque r		1801 KOYT 95.5 AZ Phoenix m	
6/7 Es		1802 KBBC 98.7 AZ Phoenix +SCA	
1115 WEZF 92.9 VT Burlington +SCA		1805 KMEB 96.9 AZ Phoenix	
1130 CFMO 93.9 ON Ottawa		1815 KHEP 101.5 AZ Phoenix +SCA	
1131 CBJN 95.1 ON North Bay F		(All 6/19 loggings were without any Es on channel 2 or 3)	
1135 CECN 96.1 ON North Bay		6/24 Es	
6/12 tr		1856 WTYD 96.1 NC Raleigh	
2000 KCMR 98.3 IA Mason City g		1859 WRGM 92.1 NC Jacksonville k '92-RCM"	
6/13 tr		1900 WBAG 93.9 NC Burlington	
2335 KHUB 105.5 NE Fremont		1918 WMEZ 94.1 FL Pensacola +SCA	
6/14 tr		1919 WEQR 96.9 NC Goldsboro "Q-96"	
0559 KBRA 97.9 KS Wichita m "K-bra"		1930 WJIZ 96.3 GA Albany mono	
6/19 Es		2056 WJNO 97.9 FL Palm Beach r "J-98"	
1800 KNCR 91.5 AZ Phoenix			

Boy, this has been a very poor Es season up here in the Northland, at least thru June 30th. As a matter of fact, it has to take the prize as the all time dud of the past 29 years or so as far as I'm concerned. Even the Es on TV Ch. 2 has been sparse, and, oddly enough, there have been times when the FM band has had Es and the lower TV channels have shown no indication of skip. Weird season! Since the '79 ANARC convention was held locally, I attended same and enjoyed myself. This was primarily a medium & short wave orientated gathering, but WTPFA FM editor Bruce Elving and I conducted a seminar for the convention concerning FM & SCA DXing. Hopefully, we may have broadened the DX horizons for some of the attendees. John Zondlo also gave a talk on WTPFA. Regards, John

David J. Nordmann - 1110 Ralph Tr. - St. Louis, MO 63117

Equipment: Pioneer SX-650, Winegard 10 element Yagi, Alliance Rotor at 30 ft.

6/9 Es 2000 KTSM 99.9 TX El Paso (1025) 6/21 tr 0800 WFIU 103.7 IN Bloomington
 6/19 tr 1430 KAOL 101.1 MO Carrollton (190) 0805 WRTV Ch. 6 IN Indianapolis
 6/21 tr 0730 WFLC 105.7 IN Indianapolis (275) (audio)

I am a St. Louis area DXer and am a member of WTFDA for about two years now. Not much activity here - first report to this column - hope to have more later. Have had problem with ten locals with 100 kw each. I have managed well though. With my winegard antenna I've had only one good opening from Texas which I first received while driving home, on my Pioneer KP-500. I've had it for two years now and nothing comes close to it for such excellent sensitivity and selectivity. Rich Eddie finally bought a McIntosh MR-78 and I helped him hook it up, and I'm still astonished at the results. We had few problems with overloading and despite our ten 100 kw stations we were able to receive stations directly adjacent to them with no splash or evidence that there was even a station on the next channel; McIntosh makes the best receiver on the market today. We were receiving stations that normally come in only when conditions are good. Words can't adequately praise the capabilities of this receiver. You really have to try one. Good DX!

Fred Nordquist - 7945 Boxford Road - Clay, NY 13041

Equipment: Heathkit RX AJ-15, with JFD LPL 10A Antenna at 45 ft. AGL. Seven E-skip sessions noted this report period, but nothing significant. Log totals now at 1033 with NY stations at 145. New underlined.

6/13 Es to South MUF 97.7	6/29 Es to West cont'd:
2000 WRJH 97.7 MS Brandon ID (1060)	2205 All Tulsa stations in briefly.
6/24 Es to South-Southwest MUF 107.5	6/30 Es to South-Southwest
2128 UNID 103.3 Longhorn Radio Network	1059 WKRY 93.5 SC Columbia m\$ ID (695)
2143 WYNK 101.5 LA Baton Rouge ID, wx	1101 WZLD 96.7 SC Cayce r\$ ID (700)
2146 WALT 97.1 MS Meridian ID, wx	1146 WBBM 90.3 AL Birmingham (885)
6/27 GW	1227 KTTL 93.9 KS Dodge City k\$, ad
1800 WSCS 89.5 NY Sodus r mono (50)	1230 KCKN 94.1 MO Kansas City ads
6/28 Es to South and West MUF 101.5	7/2 Es to Kansas - unids 1743-1751.
2105 WRMB 89.3 FL Boynton Beach g\$ (1185)	7/7 Es to SW & SSW
2127 WXYI 93.5 MS Bay Springs ID (1055)	1036 KOCB 90.7 MO Joplin testing
2007 KBRX 92.7 NE O'Neill BB, mono	1042 KFJL 98.9 OK Okla City ID (1200)
2234 KWIT 90.3 IA Sioux City ID	1102 UNID 105.9 KQ-106 r\$ who?
	1108 KSPI 93.9 OK Stillwater
	1111 KWEY 97.3 OK Weatherford r\$ (1300)
6/29 Es to West MUF 95.7	1149 KHCC 90.1 KS Hutchinson ID (1110)
1845 KWR 93.7 SD Winner PSA	2101 WABE 97.5 AL Mobile "97-Rock"
2153 KCSC 90.1 OK Central State Univ.	
	73, Fred

Harry J. Hayes - Star Route, Box 226c - Gouldsboro, PA

Equipment: Gouldsboro-Zenith Trans-Oceanic w/whip; Wilkes-Barre-Zenith Trans Oceanic w/104 Mhz stacked quad loop. *DX from Wilkes-Barre on quad loop. This unusually cold summer is teamed with an extremely poor E-skip year. Such a combination gives one thoughts of going back to the AM band early. Tropics have also been nothing spectacular with very very little hot stagnant wx experienced so far. The high temperature reading on July 4th was 55° F. Today, July 5, it is 45° in the morning at 10 am. On other thoughts, my quad loop which I use in Wilkes-Barre has been doing a really good job on the skip, what little there's been. It also seems pretty good on tropics too as I can sometimes pick up Canadians across Lake Erie.

5/30 Es*	6/23 Es
1925 WGEA 93.5 AL Geneva g	1923 KAFmt 92.5 TX Dallas soft r
1934 WPCV 97.5 FL Winter Haven	1925 KVIL 103.7 TX Dallas r, ID
1943 WOOF 99.7 AL Dothan m	1933 KKDAT104.5 TX Dallas r, "K-104"
1948 WTVY 95.5 AL Dothan k	1934 KOAX 105.3 TX Dallas m
2030 WLWV 94.9 FL Tallahassee m	1941 KKAJt 95.7 OK Ardmore
2035 WDMG 99.5 GA Douglas "AM-86 & FM-99"	2000 WBYU 95.7 LA New Orleans m
2044 WOPF 95.7 FL Clearwater d, "96 Fever"	2025 KSMbt 94.5 LA Lafayette "K-94"
2049 WQST 102.5 FL Sarasota	2029 KYND 92.5 TX Houston ID
6/10 tr*	2030 KRLY 93.7 TX Houston "Disco-94"
2050 CHUM 104.5 ON Toronto p, "CHUM" FM	2039 KWIC 107.7 TX Beaumont ID
2200 CJBqt 97.1 ON Belleville city mx	2105 KTF5 94.7 MO Springfield
2205 WVOR 100.5 NY Rochester r, "WVOR-100"	2106 KEBC 94.7 OK Oklahoma City
6/13 Es*	2109 KTXrt101.5 MO Springfield k
1910 KMBQ 93.7 LA Shreveport r	2110 KTFX 103.3 OK Tulsa r, ID
6/23 Es	6/30 Es
1907 KMBQ 93.7 LA Shreveport r	1125 WJMI 99.7 MS Jackson
1910 Skip Intense to 107.9	1132 WCPCt 93.3 MS Houston m
1922 KWJS 94.9 TX Arlington ID	1422 ZEM t 89.1 BR Hamilton

Robert S. Ross, VE3JFC - Box 4373, Stn. C - London, ON
 Equipment: Marantz 2226, Rabbit Ears @ 90 feet on balcony. New station underlined.
 149 stations heard; 84 verified.

6/4 tr	6/27 tr		
0030 CING 107.9 ON Burlington	80 0212 WQJR 101.5 OH Toledo		150
5/27 tr	0213 WRIF 101.1 MI Detroit		120
0135 WWMW 105.7 OH Cleveland	70 0215 WNIC 100.3 MI Dearborn-Detroit		130
0136 WGPR 107.5 MI Detroit	120 0220 CJOM 88.7 ON Windsor		120
0139 WSAQ 107.1 MI Saginaw	130 0223 WTWR 92.3 MI Detroit		120
0140 WWWW 106.7 MI Detroit	120 0225 WBFQ 98.7 MI Detroit		120
0142 WJZZ 105.9 MI Detroit	120 0230 WGCL 98.5 OH Cleveland		70
0144 CFCA 105.3 ON Kitchener	65 0232 CKGL 96.7 ON Kitchener		65
0145 WOMC 104.3 MI Detroit	120 0233 WJR 96.3 MI Detroit		120
0150 WIDL 104.9 MI Caro	140 0235 WDRQ 93.1 MI Detroit		120
0208 WHUZ 103.5 MI Detroit	120 0237 WMHE 92.5 OH Toledo		150
0209 WGER 102.5 MI Bay City	130 0240 WMJC 94.7 MI Birmingham		130
0210 WLES 102.7 MI Mt. Clemens	130 5/29 tr		
0211 WDET 101.9 MI Detroit	120 0025 WDMT 107.9 OH Cleveland		70

73. Robert S. Ross, VE3JFC

(My apologies to the above DXer. In the July column, all DX was logged in May, not June. After typing so many numbers and letters, one's mind tends to lose coordination! Will try to do better.--rs)

Paul Mount - 471 Emerson Ave. - Teaneck, NJ 07666
 underlined state - new state

6/11 tr	0107 WMYK 93.7 NC Elizabeth City rp\$ "K-94"		326
	0114 WDWL 92.1 NJ Vineland r		98
	0121 WJRZ 100.1 NJ Ship Bottom r\$ "100-FM"		90
	0123 WGRF 99.3 NJ Pleasantville r "FM-99"		107
	0130 WBOC 104.7 MD Ocean City m\$		194
	0143 WTIC 96.5 CT Hartford r "96-Tics"		91
	0145 WFI 92.5 PA Philadelphia r\$		228
	0208 WOKQ 97.5 NH Dover-Portsmouth k\$		107
	0250 WQXA 105.7 PA York r "Q-106"		155
	0255 WVEF 105.7 MA Framingham-Boston r "F-105"		185
	0320 WAAF 107.3 MA Worcester rp		171
	0357 WLKW 101.5 RI Providence m "FM-101"		150
	0433 WHUS 91.7 CT Storrs r		106
	0440 WKHI 99.9 MD Ocean City r\$ "100-KHI"		194
	0501 WRFY 102.5 PA Reading rm "Y-102"		107
	0502 WDRG 102.9 CT Hartford rp\$		93
	0511 WRCN 103.9 NY Riverhead r		71
	0524 WIOF 104.1 CT Waterbury m "magic" "W-104"		68
	0543 WSTW 93.7 DE Wilmington r		112
	0555 WWSH 106.1 PA Philadelphia m		89
	0600 WCOZ 94.5 MA Boston r		198
	0605 unID 93.7 SS "Radio-94"		

I called WOKQ and was put on the air. Then they got calls from Brooklyn and Long Island. Having never heard anything better than a weak Baltimore, having NC doing \$ was quite a shock and I was up all night. Joe Fela says it was strongest around 2230; I was at a wedding then.

6/13 Es 2010 WJNS 92.1 MS Yazoo City 1060
 Joe Fela called to tip off skip to TX. I thought I had nothing but in talking to Eric Fader my mention of "Dixie Youth League" rang bells and John McBride Chevron USA spot which I had on tape matched his; the ending being "highway 3 bypass, Yazoo City." My first Es from anywhere! Signal fair to nil. WLANG-NY heard in fade.

6/15 tr	0325 WSTW 93.7 DE Wilmington rs		112
	0353 WCAU 98.1 PA Philadelphia s\$		89
6/17 tr	1305 WLOM 104.7 MA Orleans r "Cape Cod's 104"		217
6/24 Es	2100 KLWT 92.1 MO Lebanon "FM-92" U nx		1024
6/26 GW	0420 unID 91.9 NY NYC? comedy & commentary about gay rights;		
mention "N-I-N-E-F-M" and "9-FM" w/dj's Edwin Armstrong and Jack Harris. Died 0457.			
6/29 tr	2125 WLANG 92.1 NY Sag Harbor r		143
	2126 WRKI 95.1 CT Brookfield rp\$		51
	2130 WRDR 104.9 NJ Egg Harbor City phillies		100
	2135 WCTV 97.7 CT Norwich k, wx		102
	2140 WFFG 96.9 NJ Atlantic City m\$		110
	2145 WAYV 95.1 NJ Atlantic City d\$		110
	2147 WSBH 95.3 NY Southampton rd		85

Brad Lovett - 5319 S. Dixie Hwy. #7 - Lima, OH 45806

I am a new member. I'd like to submit a report. RX is a Sony HMK-229 Stereo compact.
The following logged in Coldwater, OH w/ indoor antenna:

4/3 tr	5/5 tr
2020 WWOV 93.7 OH Mt. Vernon "O-95"	0140 unID 100.3 IN "Rock Mx-100"
4/7 tr	5/16 tr
2130 WBBY 103.9 OH Westerville o/WXKE/WDJX	0120 WFBM 92.1 PA Ellwood City
4/11 tr	0205 WZFR 100.3 PA Meadville "Radio-15"
0025 WLQA 98.5 OH Cincinnati m	5/18 tr
0030 WFMT 98.7 IL Chicago c	1125 WTKI 100.1 IN Angola top 40, A nx
5/4 tr from Kenton, OH via Warner Cable	5/20 tr
0130 WBCI 90.3 IN Ft. Wayne g	0125 WNRN 92.1 OH Bellevue top 40
0230 WGCL 98.5 OH Cleveland r	0130 WVLK 92.9 KY Lexington o/WNDU
0205 WBSFt 92.1 IN Muncie "Only Show in Town" (it was WBSF-rs)	6/1 tr
1145 WZAK 93.1 OH Cleveland SS program	2230 WRSW 107.3 IN Warsaw local BB
1240 WKDD 96.5 OH Akron "Concert Line"	6/2 tr
1300 WHBC 94.1 OH Canton m	0120 WUOL 90.5 KY Louisville
5/5 tr	0145 WLEN 103.9 MI Arian WBBY off
0106 WLAV 96.9 MI Grand Rapids concert pr. 7/3	0153 CKLW 93.9 ON Windsor k
0135 WWKI 100.5 IN Kokomo k	1040 KELT 94.5 TX Harlingen ID

I've been involved in various types of DX for seven years. My total, using the same log in Lima as Coldwater, and discounting Kenton, is 120 stations from nine states and one province. 73, Brad

Dave Hascall - 211 N. Merrill - Fortville, IN 46040

Equipment: portable w/whip and Capehart \$ w/twin-lead dipole.

6/12 tr	6/21 tr
2120 WDNL 102.1 IL Danville "D-102"	2315 WCBK 102.3 IN Martinsville mono
2140 WVTS 100.7 IN Terre Haute "101-FM"	6/23 GW DX from Lynchburg, MO on port.
6/13 tr	1905 KBFL 90.3 MO Buffalo
0010 WKFR 103.3 MI Battle Creek "KFR"	2245 KCLU 94.3 MO Rolla
0910 WFML 106.5 IN Washington	6/26 tr
6/14 tr	1125 KMRJ 96.9 KS Pittsburg new state
0001 WPFM 102.7 IN Terre Haute "PFR"	1140 KOPN 89.5 MO Columbia
6/15 tr	1430 KCMW 90.9 MO Warrensburg
0000 WVTS 100.7 IN Terre Haute gr, A nx	1450 KFIN 107.9 AR Jonesboro new state
0106 WAMZ 97.5 KY Louisville k	1459 KBEK 106.3 MO Lexington
0131 WWJY 101.5 IN South Bend m	1527 KLAZ 98.5 AR Little Rock pr or d
0149 WTUE 104.7 OH Dayton	6/27 tr
0205 WBWB 96.7 IN Bloomington r	0953 WJBM 104.1 IL Jerseyville
0230 WLQA 98.5 OH Cincinnati	0957 KJFF 106.9 MO Jefferson City
0255 WAKI 104.9 IN Rockville-Clinton	1007 KHLs 96.7 AR Blytheville k
1115 WQLR 106.5 MI Kalamazoo	1023 KSLQ 98.1 MO St. Louis pr
6/17 tr	1030 KFMZ 98.3 MO Columbia
2325 WVUD 99.9 OH Kettering pr	1330 KTRQ 98.9 KS Leavenworth
2335 WSAI 94.1 OH Cincinnati	1345 KAMS 95.1 AR Mammoth Springs
6/18 tr	6/28 tr
0011 WILL 90.9 IL Urbana c	1135 KSSN 95.7 AR Little Rock ex-KXXA "96-Kissin"
0020 WTUE 104.7 OH Dayton	1519 KJMO 100.1 MO Jefferson City ID
0037 WIMA 102.1 OH Lima k	2250 KFTX 106.5 MO Liberty
0044 WLYK 107.1 OH Milford-Mariemont m	2325 KLDN 92.7 MO Eldon "Lake-93"
"The station you like" "107 on your dial"	2333 KCKN 94.1 KS Kansas City k
"The nice little radio station"	7/4 tr Back Home Again in Indiana
0100 WBOQ 107.5 IN Terre Haute pr	1700 WSAI 94.1 OH Cincinnati rp\$
0130 WBBN 102.7 OH Cincinnati pr	1900 WFCJ 93.7 OH Miamisburg g\$
6/19 tr	7/7 tr
1121 Building 1130 Too bad, it's gone.	1050 WCNB 100.3 IN Connersville
6/20 tr	73's, Dave
2250 WSOY 102.9 IL Decatur	

Joseph Fela - 150 Robert Place - So. Plainfield, NJ 07080

Equipment: Pioneer SX-828, pair of Antennacraft GFM-10s, stacked at 35 ft. w/rotor.

5/22 Es	5/22 Es
1915 KWEZ 104.1 LA Monroe ID	2002 KRRV 100.3 LA Alexandria k, o/WVNJ
1923 KDBH 97.7 LA Natchitoches k, ID	2004 WJNS 92.1 MS Yazoo City ID, nx
1932 KTXJt 102.3 TX Jasper local ads	2005 KWIC 107.7 TX Beesmont "Quick"
1934 KLPL 92.7 LA Lake Providence k, ID	2024 KNAR 95.9 LA Winnboro AM-FM ID
1948 KQTD 93.1 LA Alexandria o/WPAT "QID"	2119 KMBQ 93.7 LA Shreveport rp, ID

5/22 tr	6/2 tr
2135 KEPT 96.5 LA Shreveport m, ID	2306 WYVA 94.1 VA Yorktown k, o/WYSP
2138 KYKK 105.7 TX Longview k, ID	2330 WRBK 101.9 NC New Bern r, "K-102"
5/30 Es	o/local WPIX, now WAZZ on 7/2 per verie.
1939 WBLX 92.9 AL Mobile nx, ID	6/10 tr
1940 WQUP 96.7 MS Gulfport ID	2200 Fair Boston opening w/WCOZ-94.5,
1941 WHOD 104.9 AL Jackson w/wx watch	WBCN-104.1, WKKS-107.9, etc.
1951 WBTR 92.1 GA Carrolton r, "FM-92"	6/13 Es
2009 WLWI 92.3 AL Montgomery prev. via tr	1945 KROZ 92.1 TX Tyler "Rose of Tyler"
2015 WKXN 95.9 AL Greenville r, "KXN" ID	1949 KMOOT 96.7 TX Mineola k, ads
2016 WLPR 96.1 AL Mobile m	1957 KWTT 91.7 TX Dallas g
2023 WGEA 93.5 AL Geneva g, WGEA AM s/off	6/24 Es
2029 WJGA 92.1 GA Jackson ID	2021 KRLYt 93.7 TX Houston ads, d
2035 WPGA 100.9 GA Perry ID	2025 KALO 95.1 TX Beaumont j, ID
6/2 tr	2046 KWIC 107.7 TX Beaumont r, ID
2230 Norfolk very strong w/WYFL-99.7,	2055 KLTB 106.3 MO Boliivar r, KBIR AM
WVDE-101.3, WCMS-100.5 etc.	2059 KKSS 107.7 MO St. Louis d, ID
2033 WITN 93.3 NC Washington r, ID	2105 KLPW 101.7 MO Union wx, ID
2044 WSFL 106.5 NC Bridgeton r, ads, ID	2119 KMOE 92.1 MO Butler w/KMAM AM call
2048 WDSB 94.7 DE Dover k, o/local WFME	2129 K??? 92.7 MO Eldon? ads, no calls

It's been a very slow season so far. 73, Joe

From your editor: If you think you're having a slow season where you are, be thankful you don't live in Muncie, IN. The FM band has been dead since June 7th! WSAC 105.5 Fort Knox, KY is the only new station I've heard since last month. There were signs of weak skip on June 24th, but no ID's heard.

Additional news from this month's reporters: Harry Hayes said that after sitting on 89.1 for ten minutes, he heard what seemed to be ZBM Hamilton, Bermuda, with hit parade type music. This is the first time he's heard ZBM since 1977. Paul Mount, now of Teaneck, NJ, has become acquainted with WTFDAers Joe Fela, John Kronka, Eric Fader, George Greene, Chris Hansen, and Bob Foxworth. Sounds as though they are all having a blast! Perhaps I'll meet them at the August convention.

The following abbreviations will be used for this column: c classical, d disco, e ethnic, F French speaking, g gospel, j jazz, k country, L latin, m middle of the road or EZ listening, n all news, nx news, p progressive rock, pr mostly p rock with some rock, r rock, rp mostly rock with some p rock, s soul, SS Spanish speaking, t tentative, wx weather. Sports events: BB baseball, bb basketball, fb football and h hockey. This is plenty for the month of August. 73, Ralph

F2 SKIP--WHAT CAN WE EXPECT? (continued from page 11)

English	53.25 MHz	-	British Isles, ch R3	(AM)
French	54.40	-	France, ch F3	(AM)

In the next part of this series, we'll list TV audio frequencies above 55 MHz that should be checked as conditions improve.

As F2 skip conditions improve, the lowest of these frequencies will be the first to open to worldwide propagation. It should be kept in mind that F2 is very much unlike E-skip. The relatively sharp MUF cutoff point of F2 may astound you, with very strong signals near the MUF, and dead silence just above it.

Next month, we'll look at some of the mechanics of F2 skip propagation, and show you some ways that you can be forewarned of improving F2 conditions in the coming months. In the meantime, make sure you're ready for this fall and winter--some DX opportunities in the next few months will never take place again!

-bt

SOUTHERN · FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74074
(note new address)

DEADLINE: 9th

IMPRESSIONS WITH THIS SUMMER'S FM DX ARE MIXED

With the passing of June, the question many dxers probably had in mind, "Will this summer be any better than the last one?", can so far be answered with a definite no. In fact, June's skip time is down to the tune of 19% when compared to the previous June, according to one reporter, Pat Dyer. See his findings for other Junes as well. Interestingly, two DXers (without previous years to compare) believe the DX has been real good to them. Most of June's best skip tended to concentrate in the last half of the month. The 22nd to 25th period was especially good. July got off to a decent start with strong skip in on the 2nd. This is encouraging news, since July will really have to go some to become poorer than the previous one.

Turning to tr, the 8th and 11th turned out good with distances up to 750 miles logged by one reporter. Not bad at all tr was noted by another reporter on the 17th and 18th.

Neil Dickerson, 416 State St., Sharptown, MD 21861 - May 30 to June 11

Rx: Panasonic Technics SA-5570 with stacked Channelmaster antennas at 50', rotatable.

5/30 tr		6/2 tr	
0730 WEQR 96.9 NC Goldsboro	260	0000 (WSVS over local 50 kw WBOC!)	165
0745 WHPE 95.5 NC High Point	315	0100 WBRK 101.7 MA Pittsfield	325
0800 WPJC 99.9 NC Burgaw	350	6/5 tr	
Es		0530 WRCV 92.1 PA Mercersburg, r	175
2015 WQST 92.5 MS Forest	950	6/7 tr	
2025 WJNS 92.1 MS Yazoo City	930	0730 WFCM 101.1 NC Burlington	280
2030 WBHM 90.3 AL Birmingham	725	0740 WPPP 96.9 NC Statesboro	350
2040 WBLX 92.9 AL Mobile	920	0800 WHPE 95.5 NC High Point	310
2045 WABB 97.5 AL Mobile	920	0810 WESC 92.5 SC Greenville	460
2055 WLPR 96.1 AL Mobile		0815 WTQR 104.1 NC Winston-Salem	310
2057 WLMI 92.3 AL Montgomery	950	0815 WKTC 104.3 NC Tarboro	225
2100 WKSJ 94.9 AL Mobile	925	0830 WFWR 107.5 SC St. George	510
2100 WNDA 95.1 AL Huntsville	685	0845 WDCG 105.1 NC Durham	260
2106 WLRH 89.3 AL Huntsville	685	0900 WSCI 89.3 SC Charleston	510
2115 WQID 93.7 MS Biloxi	950	0930 WLTR 91.3 SC Columbia	460
2125 WNNA 100.3 AL Tuscumbia	825	0935 WRCM 92.1 NC Jacksonville	300
2130 WCEC 93.3 MS Houston	865	0945 WFDD 88.5 NC Winston-Salem	310
2133 WTSU 90.1 AL Troy, station #700	760	2000 WQBQ 96.9 VA Bristol	390
2140 KUHF 88.7 TX Houston	1275	2130 WFFV 99.3 VA Front Royal	130
2200 WQLN 91.3 PA Erie, (tr)	350	6/8 tr	
6/1 tr		0530 WKTM 102.5 SC Charleston, aor	500
2000 WCWP 88.1 NY Brookville, 100w	240	0552 WFXI 95.1 SC Charleston	500
2000 WICN 90.5 MA Worcester	350	0600 WXTG 96.9 SC Charleston	500
2030 WGBH 89.7 MA Boston	370	0610 WQMG 97.1 NC Greensboro	280
2045 WMYZ 92.5 CT Waterbury-Hartford, m		0630 WFOJ 97.1 GA Gainesville	550
2100 WBLI 106.1 NY Patchogue	240	0700 WKTA 106.9 TN McKenzie	750!
2130 WPJB 105.1 RI Providence, "JB 105"		0710 WCRV 107.9 GA Macon	625
2145 WVVH 91.3 CT West Hartford, 330w	330	1900 WRCS 99.3 NC Ahoskie	175
2200 WMYS 98.1 MA New Bedford, m	350	1945 WQDR 94.7 NC Raleigh, o/lo. WDSB	270
2215 WHKY 94.1 RI Providence, "Joy"	340	2000 WRKB 99.7 NC Kannapolis	350
2230 WBOG 92.9 MA Brookline	390	2100 WRQK 98.7 NC Greensboro	280
2245 WLNK 92.1 NY Sag Harbor, o/local	WDVL	6/9 tr	
2300 WSHU 91.1 CT Fairfield	270	2000 WSEB 95.3 NY South Hampton, (call change)	
2307 WRKI 95.1 CT Brookfield, "I 95"	280	6/10 tr	
2315 WITC 96.5 CT Hartford, "96 Ticks"		0030 WNYD 103.9 NY White Plains, "FM 104"	250
2320 WRCN 103.9 NY Riverhead	255	0045 WLYN 101.7 MA Lynn	400
2325 WBCN 104.1 MA Boston, aor	390	0100 WFEG 98.1 PA Altoona	210
2330 WSUB 105.5 CT Groton	300	2302 WIOK 98.3 NY Hempstead, m	245
2335 WUSU 102.3 NJ Franklin, very rare	200	2315 WFOR 98.5 MA Boston, talk	390
2340 WSLT 106.3 NJ Ocean City	85	2324 WMYS 98.1 MA New Bedford, m	350
(over local WESP)		2330 WFBH 90.5 CT Middlefield, c	280
2350 WHCN 105.9 CT Hartford	300	6/11 tr	
6/2 tr		0000 WSRB 96.1 MA Worcester, m	350
0000 WSVS 104.7 VA Crewe	165	cont.	

6/11 tr		6/11 tr	
0025 WPRO 92.3 RI Providence, "Pro FM"		0247 WRGN 103.9 NY Riverhead	270
0045 WLEW 101.5 RI Providence, m	340	0300 WKSS 95.7 CT Meridan, "Kiss"	280
0100 WPJE 105.1 RI Providence, "JB 105"		0330 WHAV 92.5 MA Haverhill	410
0130 WBZ 106.7 MA Boston	390	0400 WBLM 107.5 ME Lewiston, "The Blim"	510
0145 WSHF 92.1 ME Sanford, r	450	0436 WIGY 105.9 ME Bath, "Y-106"	510
0200 WVHC 88.7 NY Hempstead, s/off	245	0502 WPBC 92.9 ME Bangor	600
	(470 watts)	0530 WGSY 93.7 MA Lawrence, "94 OGY"	400
0219 WOKQ 97.5 NH Dover, "OK Country"		0600 WBUR 90.9 MA Boston	390
0230 WPOR 101.9 ME Portland, c	475	0638 WHEB 100.3 NH Portsmouth	420

Hope everybody got in on the great tropo. The 6/8 and 6/11 openings were the best ever heard here. Both openings resembled skip as the band was so crowded with stations. On 6/11 while I was listening to WOKQ, the announcer mentioned he had calls from the Raleigh-Durham, NC area. That's 700 miles! Totals: 756/40/3. 73's.

John F. Combs, 2485 Ivan CT., Orlando, FL 32807 - June 8 to July 2 EDT

Great FM DX continues here this summer, both Es and tr. The 24th has to be one of the most unreal DX days I have ever experienced. It seemed like every channel had 2-3 stations fighting it out. Most interesting logging was a new Mexican on 89.1, location unknown. And tropo continues to be good to me--see especially the 17th/18th. Log at 275 stations, 20 states, all this in only a few months of serious FM DXing! What fun!! (If you had started FM DXing in 1977 when Es was hopping mad, you would think more than fun! DE)

6/8 Es		6/14 Es	
2302 KXCV 90.5 MO Maryville, ID	1120	1222 CJRT 91.1 ON Toronto	1060
2311 WOT? 90.1 IA Des Moines, t		6/17 tr	
6/9 tr		2234 WBLX 92.9 AL Mobile	415
0748 WBMH 90.3 AL Birmingham	470	2237 WIRB 96.9 AL Enterprise	325
0809 WTSU 90.1 AL Troy	355	2237 WEZB 97.1 LA New Orleans	525
(Very weak duct, no others in; Es on TV at this time; next 10 are Es)		2238 WQHQ 96.1 AL Andalusia	350
0832 KCUR 89.3 MO Kansas City, t		2239 WPMO 99.1 MS Pascagoula	460
0835 KBFL 90.3 MO Buffalo, local nx, ID		2239 WOOF 99.7 AL Dothan	300
0837 KANU 91.5 KS Lawrence, nx	1070	2303 WLFR 96.1 AL Mobile	415
0851 KSIW? 93.5 OK Woodward, t		2240 WKRG 99.9 AL Mobile	415
0858 KWKI? 93.3 MO Kansas City, t		2241 WNL 101.9 LA New Orleans	525
0905 KWFM 93.9 MO West Plains, ID	805	2243 WXBW 102.7 FL Milton	400
0919 KLJC 88.5 MO Kansas City, ID, psa		2248 WKGC 90.7 FL Panama City	270
0930 KPTS 94.7 MO Springfield, ID	895	2317 WPFM 107.9 FL Panama City	270
0930 KSMU 91.1 MO Springfield		2322 WABB 97.5 AL Mobile	415
0935 KQBC 90.7 MO Joplin, local nx	940	6/18 tr	
0940 (Had to leave)		0019 WTVY 95.5 AL Dothan	300
6/10 Es		0058 WAFB 98.1 LA Baton Rouge	605
0902 KERA? 90.1 TX Dallas, t		0100 WQTD 93.7 MS Biloxi	480
0902 KPFT? 90.1 TX Houston, t		0104 WJCL 96.5 GA Savannah	245
0912 KTYL 93.1 TX Tyler, t		0120 WHSP 92.1 AL Fairhope	400
tr		(WDBO 92.3 off, WHEP new call, now g)	
0930 WTSU 90.1 AL Troy	355	0131 WTSU 90.1 AL Troy	355
2234 WBEV 98.7 SC Beaufort	290	0153 WGNE 98.5 FL Panama City	270
2243 WHHR 106.3 SC Hilton Head Island	270	0300 to bed....	
(WHHR seems to be in whenever Savannah is strong, so I will no longer log it!)		0710 woke-- quick check on TV showed conditions still up, but too tired!!	
6/11 tr		0820 WBLX 92.9 AL Mobile	415
0820 Charleston SC FM's strong	305	0820 WEZB 97.1 LA New Orleans	525
0826 WBEV 98.7 SC Beaufort	290	0836 WABE? 90.1 GA Atlanta, t	
6/13 Es		(FM and VHF-TV too crowded--band open to SC, NC, GA, AL, LA!! Too many 150-250 milers peaking meter--watched UHF mostly!)	
1906 WLFM 91.1 WI Appleton	1155	6/23 Es	
1907 WQFM? 93.3 WI Milwaukee, t		1929 WIPR 91.3 PR San Juan	1185
1912 WHRM 90.9 WI Wausau	1260	1930 WORO 92.5 PR Corozal	1175
1930 WGLL 91.1 MI Houghton	1360	1930 WSR? 93.7 PR San Juan, t	
6/14 Es		(Latino nx--SS--Atlas shows this one as EE, format change?)	
1015-1055 various unIDs to 92.7		1954 WNLH 96.9 PR Manati	1165
1217 WBUF 92.9 NY Buffalo	1005		
1218 WBFO 88.7 NY Buffalo	1005		

6/23 Es
 1974 WHPC 95.1 PR San German 1160
 6/24 tr
 0729 WTVY 95.5 AL Dothan 300
 0731 WTSU 90.1 AL Troy 355
 0746 WRES 105.7 AL Troy 355
 0800 WLTE 102.5 GA Waycross 190
 (usually covered by dominant WQSR)
 Es
 1050 KELT 94.5 TX Harlingen 1025
 1050 KLTW 96.1 TX Harlingen 1025
 1052 KVMV 96.9 TX McAllen 1055
 1055 unID 93.1 w/gospel
 1055 unID 89.1 ?? Mexico??
 (ID as "Sonida 89", rock/disco, CST time check)
 1120 Had to leave....

1535 unID 88.3/5 w/jazz
 1703 WDRQ 93.1 MI Detroit 970
 1706 CJOM? 88.7 ON Windsor, t
 1707 WSHJ? 88.3 MI Southfield, t
 1707 WJJC? 94.7 MI Birmingham, t
 1709 WEMU 89.1 MI Ypsilanti
 1810 CJOM? 88.7 ON Windsor, t
 1825 WDUQ 90.5 PA Pittsburgh 820
 1827 KDKA 92.9 PA Pittsburgh
 1827 WDBN 94.5 OH Medina 865
 1831 WBES 96.1 WV Charleston 700
 1833 WCLV 95.5 OH Cleveland 885
 1834 WZAK 93.1 OH Cleveland
 1835 CKLW 93.9 ON Windsor 960
 1837 WTOP? 98.1 OH Canton-Akron, t
 1852 CHAY 93.1 ON Barrie 1095
 1850 WVJC 89.1 IL Mount Carmel 735
 1851 WMBW 88.9 TN Chattanooga 505
 (Shortest FM Es had!)

1859 WNMU 90.1 MI Marquette 1315
 1900 WRAJ 98.1 IN Princeton 730
 1904 WFMJ 98.7 IL Chicago 985
 1914 WFAW 107.3 WI Fort Atkinson 1080
 1915 WEEZ 103.7 WI Wauwatosa 1075
 1920 WDBQ 93.9 WI Sturgeon Bay 1135
 1921 WMBT 95.5 IL Chicago 985
 1925 WVPE? 88.1 IN Elkhart, t
 1925 WIAA 88.3 MI Interlochen 1160
 1925 KLJC 88.5 MO Kansas City 1050
 1926 WPNE 89.3 WI Green Bay 1135
 1926 WERN 88.7 WI Madison 1100
 1927 WMBI 90.1 IL Chicago 985
 1929 WLHN 97.9 IN Anderson 810
 1930 WRVW 102.7 WI Suring 1290
 1930 WXTZ 103.3 IN Indianapolis 810
 1931 WJEZ 104.3 IL Chicago 985
 1932 WHAD 90.7 WI Delafield 1085
 1932 WHRM 90.9 WI Wausau 1160
 1932 WHHI 91.3 WI Highland 1135
 1934 WXRT 93.1 IL Chicago 985
 1936 WDAI 94.7 IL Chicago
 1937 WZUU 95.7 WI Milwaukee 1070
 1938 WLPX 97.3 WI Milwaukee
 1940 WEFM 99.5 IL Chicago 985
 1941 WMC 99.7 TN Memphis 675
 1942 WBCS 102.9 WI Milwaukee 1070
 1943 WPHY 103.5 IL Chicago 985
 1044 MUF TV Channel 7!!
 2000 WDEZ 101.9 WI Wausau 1160
 2002 WLKM 95.9 MI Three Rivers 1015
 2004 WLBH 96.9 IL Mattoon 795
 2007 WIMI 99.7 MI Ironwood 1365

6/24 Es, cont.
 2010-2025 Break.....
 2027 WLNR 106.3 IL Lansing 970
 2030 WRHN? 107.9 WI Rhinelander, t
 2031 WFLM 103.9 IN Crown Point 960
 2041 WMUS 106.9 MI Muskegon 1090
 2041 WNIB? 97.1 IL Chicago, t
 2044 WHWL 95.7 MI Marquette 1315
 2055 WIVC? 94.9 MI East Lansing, t
 2100 (Local t-storm, MUF rapidly drops,
 quit here!! At least 41 new stations today!)

6/25 Es
 0925-0955 Various unIDs to 93.1
 1310 KMMU 90.7 MO St. Louis 865
 1314 KGLC 89.1 MO St. Charles 890
 1320 KGRC 92.9 MO Hannibal 965
 1321 KOPN 89.5 MO Columbia 975
 1324 KSHE 94.7 MO Crestwood 870
 1325 KJUM 88.9 MO Jefferson City 930
 1325 KXCV 90.5 MO Maryville 1120
 1325 KCOU 88.1 MO Columbia 975
 1342 KLJC? 88.5 MO Kansas City, t

AT GAINESVILLE, FL:
 (Steve West's QTH, distances approximate)

6/29 Es
 2030+ To Midwest: KMGK 93.3, KGGO 94.9 IA...
 6/30 tr
 2320+ WSFL 106.5 NC Bridgeton 495
 2320+ WHSL 97.3 NC Wilmington 410
 (plus other unIDs)

7/1 Es
 2330+ KTXK 88.1 TX Lubbock 1220
 (only FM in opening that soon faded)

7/2 Es
 The following logged MOBILE on U. S.
 441 between Gainesville and Ocala between
 1230-1330 EDT.

*KMUW 89.1 KS Wichita
 *KHCC 90.1 KS Hutchinson
 *KOEZ 92.3 KS Newton
 KOPN 89.5 MO Columbia
 KLJC 88.5 MO Kansas City
 KBFL 90.3 MO Buffalo
 *KCMW 90.9 MO Warrensburg
 *KWKI 93.3 MO Kansas City
 *KCKN 94.1 KS Kansas City
 *KOEZ 94.9 MO Kansas City

Loggings with a asterisk not previously
 heard in Orlando, but not countable in
 totals there. About 1330, in Ocala, the
 Blaupunkt car Radio suddenly "died"--don't
 know yet whether problem is receiver or
 power source!

SOME ABBREVIATIONS USED IN COLUMN:

t - tentative
 nx - news
 wx - weather
 SS - Spanish speaker
 psa - public service
 announcement
 aor - album oriented rock
 k - country music
 c - classical music

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - June 5 to July 1 CST
 Equipment: Hallicrafters SX-62 with International Crystal SAX-1 preamplifier(s);
 Archer 6-element antenna at 20 ft. with rotor. new underlined, new mode- - - -

6/5 (all Es)
 1036 WMCut 89.7 FL Miami, g 1150
 1052 WMTM 93.9 GA Moultrie, ad, k 885
 1055 WINZ 94.9 FL Miami Beach, ad 1150
 1057 WEDRT 99.1 FL Miami, soul 1150
 1101 WONE 98.5 FL Panama City, ad 780
 1107 WQIK 99.1 FL Jacksonville, ID 1015
 1115 WACL 103.3 GA Waycross, ID 970
 WVER 103.3 GA Atlanta, ad 880
 1117 WLTA 99.7 GA Atlanta, ID
 "FM-100" (prior by trop)
 1118 unID 107.3 (MUF)
 1147 WKID 94.7 KY Mayfield 760
 (town ID, "D-94")
 1155 WMBW 88.9 TN Chattanooga, wx
 1217 WLSU 88.9 WI La Crosse, wx 1070
 1220-1240 unIDs 88-91
 1239 WQXI 94.1 GA Smyrna, area ad 875
 1244 WESC 92.5 SC Greenville, area ad
 1255 f/outs
 1330-1340 unIDs 89.1, 89.7
 1720-1800 unIDs 88-99
 1805 WKZY 97.1 MI Escanaba, local ad 1280
 (1810-30, lull)
 1845 WJJO 98.1 MN St. Cloud, ID 1140
 1855 f/outs
 6/7
 2032 KZEZt 93.5 UT St. George, m 1005
 KSUBt 92.5 UT Cedar City 1005
 2048 KENOT 92.3 NV Las Vegas, r 1050
 KBREt 94.9 UT Cedar City, m 1005
 2054 KNISr 94.7 NV Carson City, g 1370

6/8
 1750 WSGIt 89.3 SC Charleston 1120
 1754 WFXI 95.1 SC Charleston, ID, soul
 1756 WFOct 94.1 GA Savannah, k 1050
 1759 WBEU 98.7 SC Beaufort, ID 1075
 1805 WJCL 96.5 GA Savannah, ID 1050
 1807 WPEC 97.9 NC Concord, area ad 1120
 1810-1845 unIDs mostly 88-89
 1847 KEEZ 99.1 MN Mankato, town ID 1045
 KOPI 95.3 MN Albert Lea, local ad
 1852 WJJO 98.1 MN St. Cloud, ID, k 1140
 1855 KTLB 105.5 IA Twin Lakes, ads 920
 1859 WJJY 106.7 MN Brainerd, ID 1180
 1900 EKWS 105.9 MN Wadena, town ID 1190
 1901 WGR 105.1 MN Duluth, area ad 1250
 1902 KJNA 103.7 IA Atlantic, ID, Cards bb
 1906 KGLD 104.7 MN St. Cloud, local ad
 KDWB 101.3 MN Richfield, ID 1105
 1912 KIWA 105.5 IA Sheldon, town ID 960
 1913 KYSM 103.5 MN Mankato, town ID 1045
 1917 KHUB 105.5 NE Fremont, ID 840
 1913 KQICt 102.5 MN Willmar, MN psa 1180
 1922 KQWB 98.7 MN Moorhead, wx 1205
 1926 KPNWt 97.9 ND Fargo, g 1200
 1928 KKEY 102.9 MN St. Paul, area ad 1110
 1929 KVOX 99.9 MN Moorhead, area ad 1205
 1934 KQHU 104.1 SD Yankton, ad "Q-FM" 925
 1935 WJAG 106.7 NE Norfolk, wx 870
 1942 KMAV 101.7 ND Mayville, ID, ads 1245
 1944 WDAY 93.7 ND Fargo, ID 1200
 2024 KTNW 107.9 MN Anoka, area ad 1125
 2029 KLSS 106.1 IA Mason City, "KS-106" ID
 2033 WIAL 94.1 WI Eau Claire, wx 1125

6/8
 2045 KROC 106.9 MN Rochester, ID 1060
 2059 WTMB 98.9 WI Tomah, ID 1100
 2110 WHBC 94.1 OH Canton, local ad 1235
 WDMTt 107.9 OH Cleveland 1250
 2116 WHLQt 106.9 OH Canton, OH nx 1235
 2122 WGCLt 98.5 OH Cleveland, r 1250
 2131 WDBN 94.9 OH Medina, ID 1230
 2134 WBEZt 9.3 OH Xenia 1085
 2143 WPBF 105.9 OH Middleton, ID 1060
 2145 WVNO 106.1 OH Mansfield, local ad 1180
 2145 WQAL 104.1 OH Cleveland, ne Ohio ad
 2209 WTOFt 98.1 OH Canton, g 1235
 soon f/outs
 At last, a good long FM Es opening

6/11 (0825-0835 unIDs 88-89)
 0835 WDOR 93.9 WI Sturgeon Bay, local ad
 0838 WIALt 94.1 WI Eau Claire, m 1125
 0838 WJMT 93.5 WI Merrill, area ad 1190
 1015 KTWnt 107.9 MN Anoka, m 1125
 WJJOt 98.1 MN St. Cloud, k 1149
 1929 KWAY 99.3 IA Waverly, area ads 975
 1030 WIAL 94.1 WI Eau Claire, wx 1125
 1033 WACF 98.5 IL Paris, ID 930
 1037 KKEZ 94.1 IA Fort Dodge, ID 935
 1040 KOEL 92.3 IA Oelwein, ID, k 985
 1050-lull
 1104 KESD 88.3 SD Brookings, wx 1020

6/12
 1343 KPBSr 89.5 CA San Diego 1120
 1348 KPFD 94.1 CA San Diego, local ad
 1355 f/outs

6/13
 0821 KOWH 94.1 NE Omaha, ID, k 830
 0830 f/outs (unIDs to 95.?)
 1000 KALL 94.1 UT Salt Lake City, wx 1080
 1004 KBYU 88.9 UT Provo, ID 1045
 1008 KZANt 97.9 UT Ogden, k 1100
 1010 KWHO 93.3 UT Salt Lake City, psa 1080
 KZEZt 93.5 UT St. George, m 1005
 1011 KCPX 98.7 UT Salt Lake City, ID 1080
 1255 f/outs (very spotty after 1020)
 1215 KENOT 92.3 NV Las Vegas, r 1050

6/14
 1202 KFJZ 94.9 ID Nampa, area ad 1380
 1205 KEZJ 95.7 ID Twin Falls, ID, m 1265
 1206 KALLt 94.1 UT Salt Lake City 1080
 1207 KWHO 93.3 UT Salt Lake City, nx, ID
 1208 KBYU 88.9 UT Provo, ID 1045
 1210 KZAN 97.9 UT Ogden, area ad 1100
 1220 KRSP 103.5 UT Salt Lake City, wx 1080
 1255 f/outs (from 1235 on just 88.9 in
 1747 KWXYt 98.5 CA Cathedral City 1080
 1748 KNOB 97.9 CA Long Beach, area ad, ID
 KBBYt 95.1 CA Ventura, r 1250
 1752 KFAC 92.3 CA Los Angeles, area ad, ID
 KPST 89.3 CA Pasadena 1185
 KCSNt 88.5 CA Northridge 1210
 1755 KXTZ 94.1 NV Henderson, NV nx 1050
 KLUJt 98.5 NV Las Vegas, r 1040
 KILAt 95.5 NV Henderson 1040
 Dyer, cont. LULL to 1817

6/14 (all Es)
 1817 KNIST 94.7 NV Carson City, g 1370
 1820 KSUB 92.5 UT Cedar City, ID 1005
 1823 KRST 92.3 NM Albuquerque, r, ID 610
 KLYnt 88.3 NM Albuquerque 610
 1832 KZEE 93.5 UT St. George, m, ID 1005
 1845 KENO 92.3 NV Las Vegas, ID 1050
 1850 f/out
 1955-2000 unIDs to 93.9
 2255-2335 unIDs to 95.5, tents NV, CA
 2313 KPFFt 90.7 CA Los Angeles 1190

6/15
 1045-1055 unID 88.9
 1057 KKJH 93.9 SD Rapid City, area ad
 lull to 1112
 1112 KEYat 88.5 ND Belcourt, k 1335
 1125 KQDY 94.5 ND Bismarck, sports nx, ads
 1127 KOLYt 99.5 SD Moberidge 1115
 1153 KNDR 104.9 ND Mandan, county psa 1200
 soon f/out

6/20
 1100-1105 KXLU 88.9 CA Los Angeles, nx
 1720 KBYut 89.9 UT Provo, c 1045
 1723 KWHOT 93.3 UT Salt Lake City 1080
 1730 KRBEt 94.9 UT Cedar City 1005
 1732 KJKJt 94.5 UT Logan 1120
 1733 KZEE 93.5 UT St. George, ad, m 1005
 1735 KCTBt 93.9 AZ Flagstaff 855
 1743 KSUB 92.5 UT Cedar City, ID, k 1005
 1755 f/out
 1830-1835 unID 89.3
 1935-2000 unIDs mostly 88-89's
 2009 WMRt 88.3 OH Marietta 1180
 2013 KKOK 95.7 MN Morris, ID, \$96 1125
 2020 WNCI 97.9 OH Columbus 1135
 2024 WDSY 107.9 PA Pittsburg, ID, "108-FM"
 2033 WKWV 106.5 WV Clarksburg, area town
 2040-2055 unIDs, mostly 88-89 lull to
 2115-2120 then f/out

6/22
 0944 WYSUt 88.5 OH Youngstown, c 1275
 0947 WHBC 94.1 OH Canton, area ad 1235
 0948 WKBnt 98.9 OH Youngstown, m 1275
 WKSUt 89.7 OH Kent 1255
 0955 lull to 1015 then 1025 f/out

6/23
 0930 KOLL 93.5 WY Gillette, ID 1090
 0935 KRCE 94.9 WY Sheridan, local ad 1150
 0942 KIDX 98.5 MT Billings, ads, k 1245
 0945 KYIA 93.3 MT Billings, ads, "Y-93"
 0957 KLWD 96.5 WY Sheridan, wx, ID, m
 1002 WMTN 96.9 WY Jackson, town ID 1175
 1007 KBOW 94.1 MT Butte, area ad 1365
 1013 KTAK 93.5 WY Riverton, local ad 1030
 1030 KAWY 94.5 WY Casper ID, r 1015
 1012, 99.1 MUF
 and essentially some of this group until
 f/out at 1130:

1735 KCSnt 88.5 CA Northridge, r 1210
 1736 KLONt 88.1 CA Long Beach 1180
 1744 KSDSt 88.3 CA San Diego 1120
 1747 KLLUt 89.7 CA Riverside 1140
 1755 KYXYt 96.5 CA San Diego 1120
 as MUF skyrockets to 107.9 in some 3 min.
 1800 KOST 103.5 CA Los Angeles, ID 1190

6/23
 1800 KFMB 100.7 CA San Diego, r 1120
 1802 KBLT 99.1 CA Riverside, g 1140
 KWVE 107.9 CA San Clemente, area ad
 1803 KDOLt 97.7 CA Mojave, m 1200
 KWYt 98.5 CA Cathedral City 1080
 1807 KHTZt 97.1 CA Los Angeles, ID, r 1190
 1808 KMET 94.7 CA Los Angeles, ID, r
 KBY 95.1 CA Ventura, ad 1250
 1809 KWST 105.9 CA Los Angeles, ID, r 1190
 KDEST 104.7 CA Palm Springs 1090
 1811 KOTRt 106.3 CA Lancaster 1190
 KHAY 100.7 CA Ventura, area ad, k 1250
 1812 KJOI 98.7 CA Los Angeles, ID, m 1190
 1816 KJLH 102.3 CA Compton 1190
 1817 KNACT 105.5 CA Long Beach 1180
 KRUZ 107.3 CA Santa Barbara, nx, ID
 1818 KROQ 106.7 CA Pasadena, area ad, r 1185
 1820 KACE 103.9 CA Inglewood, area ad 1195
 1821 KRTH 101.1 CA Los Angeles, ID 1190
 1828 KVIMt 93.7 CA Coachella, Spanish 1070
 1829 KNJO 92.7 CA Thousand Oaks, ad 1210
 1832 KKGQ 105.1 CA Los Angeles, j, ads 1190
 1833 KTYDt 99.9 CA Santa Barbara 1270
 1835 KNOBt 97.9 CA Long Beach, m 1180
 1848 XHRM 92.5 BCN Tijuana, S. Diego ads
 1850 KECRt 93.3 CA El Cajon, g 1100
 1853 KFSd 94.1 CA San Diego, ads, ID 1120
 1859 KPBS 89.5 CA San Diego, ID
 1900 KLFM 98.1 CA San Diego, ID
 1903 XHIS 90.3 BCN Tijuana, local ads 1100
 1906 XETRA 91.1 BCN Tijuana 1100
 (San Diego ads, "91-X" ID
 1915 f/out
 (at end the 92.5 Tijuana in with nil from
 San Diego)

6/24
 0750 WMCUt 89.7 FL Miami, g 1150
 0815 f/out, unIDs to 94.9
 0905 WWL 93.9 FL Miami Beach, "Love-94"
 0915 WCMQt 99.1 FL Miami
 0917 WINZ 94.9 FL Miami Beach, area psa
 0920 f/out
 1715 1740 unIDs, mostly 88-140
 1737 MUF 107.1
 1742 WAUG 105.7 GA Augusta, ID 1010
 1755 WQED 89.3 PA Pittsburgh, ID 1280
 WYSUt 88.5 OH Youngstown, c 1275
 1758 WTVR 98.1 VA Richmond, ID 1325
 1759 WLRG 92.3 VA Roanoke, wx, ID 1195
 1800 WPPR 94.9 VA Roanoke, wx, ID
 1800-1820 unIDs 88-95
 1823 WHBct 94.1 OH Canton, m 1235
 1825 WKGTT 92.3 OH Columbus, "92-X" 1135
 1829 WDBN 94.9 OH Medina 1230
 1830-1845 unIDs thru 95's
 1845 WAUPT 88.1 OH Akron 1240
 1850 f/out

6/25
 1140-45 unIDs 88.7, 89.3
 2020-30 unIDs 88-89
 2031 WEXU 88.9 KY Richmond, psa 995
 2035 WCDRt 90.3 OH Cedarville, Reds bb nx
 2040 Woub 91.3 OH Athens, ID 1155
 2041 WPAYt 104.1 OH Portsmouth, Reds bb 1095
 MUF 106.5
 2050 f/out
 Dyer, cont.

6/26 (all Es)
 0350-0855 unID
 1125 KEYAt 88.5 ND Belcourt, k 1335
 1137 MUF 96.9
 1235-1245 WJCT 89.9 FL Jacksonville, c, ID
 1331 WKSUt 89.7 OH Kent, j 1255
 1334 WDBNt 94.9 OH Medina 1230
 1335 WPTW 95.7 OH Piqua, ID 1085
 1336 WGCL 98.5 OH Cleveland, ad 1250
 1337 WOCH 105.1 IN North Vernon, town ID
 1338 WNCI 97.9 OH Columbus, local ad 1135
 1344 WLQR 101.5 OH Toledo, ID 1185
 1355 WOMC 104.3 MI Detroit, local ad 1225
 1357 WMZK 97.9 MI Detroit, ethnic 1225
 1358 WQRS 105.1 MI Detroit, c, ID
 1359 WBJF 98.7 MI Detroit, local ad
 1407 WGMZt107.9 MI Flint, m 1240
 1407 WWWW 106.7 MI Detroit, "W-4", ID 1225
 1409 WJZZ 105.9 MI Detroit, local
 1412 WKQK 98.1 MI Saginaw, local ad 1250
 1417 WJOX 106.1 MI Jackson, ID 1130
 1418 WQLRt106.5 MI Kalamazoo, m 1140
 1425 WKFF 103.3 MI Battle Creed, ad 1155
 1426 WIOG 106.3 MI Saginaw, local ad 1250
 1430 WZZR 95.7 MI Grand Rapids, ID 1175
 1437 WLAV 96.9 MI Grand Rapids, ID
 1440 WRRM 106.7 MI Gaylord, area ads 1225
 1447 WJOT105.1 IL Evanston, Spanish 1060
 1450 WYEN 106.7 IL Des Plaines, area nx
 1459 WIAA 88.3 MI Interlochen, ID 1255
 1505 f/out
 1750 KXTZt 94.1 NV Henderson, m 1040
 1752 KLUC 98.5 NV Las Vegas, ID, r 1050
 1755 KENO 92.3 NV Las Vegas, area ad
 1755 KUPDt 97.9 AZ Tempe, r 825
 1757 KSTMt107.1 AZ Apache Junction 810
 1758 KBBC 98.7 AZ Phoenix, area ad 835
 1800 KMEO 96.9 AZ Phoenix, wx, ID, m
 KKG0t 105.1 CA Los Angeles
 1802 KOLAt 99.9 CA San Bernardino, r 1135
 KRTh 101.1 CA Los Angeles, ID 1190
 1803 KQYN 95.7 CA 29 Palms, ID 1065
 1804 KWAO 106.3 AZ Sun City, AZ nx 850
 KRQqt106.7 CA Pasadena, r 1185
 KDESt104.7 CA Palm Springs, m 1090
 1806 KFSDt 94.1 CA San Diego, c 1120
 plus seven tents from Los Angeles
 1814 KFMBt100.7 CA San Diego, r 1120
 1816 KTTI 95.1 AZ Yuma, ID 970
 1817 KXYX 96.5 CA San Diego, local ad
 1819 KJOK 93.1 AZ Yuma, ID 970
 1821 KOOL 94.5 AZ Phoenix, r, ID 835
 1822 KRQK 93.7 AZ Tucson, r, ID 750

6/26
 1827 KWXY 93.5 CA Cathedral City, ad 1080
 1837 KPBSr 89.5 CA San Diego 1120
 1839 KIFM 98.1 CA San Diego, local ads, ID
 1841 XHRMt 92.5 BCN Tijuana, r 1100
 1842 XETRA 91.1 BCN Tijuana, "91-X" ID
 1855 f/out
 (again, at end, 92.5 and 91.1 Tijuana in
 without any San Diego)

6/29
 1840 WNORt 98.7 VA Norfolk 1375
 1845 WKEZ 95.7 VA Norfolk, ID 1375
 unIDs mostly 88-92
 1910 f/out

6/30
 0915-0920 unIDs 88.3, 88.5
 1030-1040 unID 89.3

7/1
 0940-0955 unIDs mostly 88-89 (MUF 94.9)
 0958 WVMR 89.1 VA Roanoke, ID 1195
 0959 WPRV 88.9 SC Rock Hill, net ID 1085
 1009 WMHK 89.7 SC Columbia, wx 1075
 1015 f/out
 1215 KFSDt 94.1 CA San Diego, c 1120
 1220 KJOIt 96.7 CA Los Angeles, m 1190
 KPRI1106.5 CA Lan Diego, r 1120
 1225 KWXYt 98.5 CA Cathedral City, m 1080
 1232 KLUC 98.5 NV Las Vegas, ID, r 1050
 KILAt 95.5 NV Henderson, g 1040
 1235 KENOt 92.3 NV Las Vegas, r 1050
 1240 KORkT 97.1 NV Las Vegas, m 1050
 1245 KPCSt 89.3 CA Pasadena 1185
 KZLAt 93.9 CA Los Angeles 1190

very soon f/out
 1450 KXLUt 88.9 CA Los Angeles 1190
 KCNSt 88.5 CA Northridge 1210

plus six other tents from L. A. area
 1540 f/out
 1825 KBYUt 88.9 UT Provo, c 1045
 KUERT 90.1 UT Salt Lake City 1080
 1828 KALL 94.1 UT Salt Lake City, ID
 1833 KWHO 93.3 UT SLC, local ad
 1835-1900 unIDs mostly 88-92
 1920-2030 spotty unIDs mostly 88-90
 2032 WEKU 88.9 KY Richmond, ID 995
 2034 WLAP 94.5 KY Lexington, ID 995
 WKQqt 98.1 KY Lexington

2045-2105 lull
 2105-2200 unIDs mostly 88-92 West
 2159 XETRAt91.1 BCN Tijuana 1100
 XHRMt 92.5 BCN Tijuana

A large and productive opening on July 2 will have to wait until next time for its presentation.

JUNE 1979 FM Es STATISTICS:
 days: 17
 openings, #: 38
 minutes: 1690

PREVIOUS JUNES (days, openings #, minutes)

1974: 17 38 2250
 1975: 22 57 3150
 1976: 25 42 2890
 1977: 24 50 3130
 1978: 19 42 2080

So this June was down some 19% from last year and 46% from 1977 (minutes). Anyway, glad to get a few more new Es catches and not have to worry about reaching the 1000 mark in those.

-more reports cont.-

Rick Sanford, 404 S. McNeill, Burnet, TX 78611 - June 8 to July 4 CDT

6/8 tr
 0808 KLAZ 98.5 AR Little Rock, ad 445
 0809 WMC 99.7 TN Memphis 570
 0815 WHRK 97.1 TN Memphis, ad, "K-97"
 6/9 tr
 0159 KCOZ 100.1 LA Shreveport, ID 290
 0818 KRHD 102.3 OK Duncan, ad, r 255
 "FM-102"
 6/12 tr
 2241 106.3 from the south, presumably
 Terrell Hills, testing w/stereo; heard
 testing since, but still not on as of
 deadline.
 6/13 tr
 0100 KCFO 98.5 OK Tulsa, ID 390
 6/14 tr
 0037 KNAG 99.1 AR Ft. Smith, 385
 s/off, St. Louis Cards BB network.
 Es:
 1128 KOPI 99.1 ID Idaho Falls, ad, r, "Q99"
 1130 KMIN 96.9 WY Jackson
 1132 KSIH 94.9 ID Pocatello, ID
 1138 KID 96.1 ID Idaho Falls, ID
 1139 KEZL 95.7 ID Twin Falls, ID
 1148 KZEZ 93.5 UT St. George, ad, ID
 6/15 tr
 0840 KYTX 98.7 TX Amarillo, ad 365
 1035 KBIM 94.9 NM Roswell, ID 410
 6/16 tr
 0915 KBIM 94.9 NM Roswell, ad 410
 0929 KSVF 92.9 NM Artesia, ID, m 390
 0946 KTQM 99.9 NM Clovis, ID 380
 6/17 tr
 1000 KYTX 98.7 TX Amarillo 365
 6/18 tr
 0120 KTLR 107.1 TX Terrell, ID 175
 w/ address; new on air; "\$ Country 107"
 0811 KBUY 94.1 TX Amarillo, ID 365
 0824 KQIZ 92.1 TX Amarillo, cl & "Z-93"
 0829 KGNC 97.9 TX Amarillo, ID, m
 0838 KYTX 98.7 TX Amarillo, ad
 0903 KACV 89.9 TX Amarillo, ID, r "FM-90"
 0911 KBIM 94.9 NM Roswell, ad 410
 0923 KTQM 99.9 NM Clovis, ID 380
 2203 KPTS 94.7 MO Springfield, ID 525
 6/19 tr
 0047 KCFO 98.5 OK Tulsa, ID 390
 6/20 Es
 1934 KUIN 92.7 UT Vernal, nx, heard 23 days
 earlier as KVEL-FM; now c
 1943 KSPN 97.7 CO Aspen, ads
 1946 KNAQ 92.1 ID Rupert, ID
 1957 KSIH 94.9 ID Pocatello, ID
 2000 KID 96.1 ID Idaho Falls, ID
 6/21 tr
 0834 KKQQ 99.1 NM Clovis, ID 380
 0835 KBIM 94.9 NM Roswell, ID 410
 0852 KYTX 98.7 TX Amarillo, ad 365
 0859 KACV 89.9 TX Amarillo
 0900 KRIZ 97.1 NM Roswell, ID, r
 2359 KBIM 94.9 NM Roswell
 6/22 tr
 0031 KGNC 97.9 TX Amarillo, ID 365
 0805 KSVF 92.9 NM Artesia, ID, ad 390
 out of Mutual S. W. nx

6/22 tr
 0822 KTQM 99.9 NM Clovis, ad, "Q-100"
 0827 KKQQ 99.1 NM Clovis, ID, ad 380
 0901 KWAS 101.9 TX Amarillo, ID, g, 365
 0903 KYTX 98.7 TX Amarillo, ID, "KY-99"
 (two others from Amarillo as well)
 0937 KBIM 94.9 NM Roswell 410
 1045 KEAN 106.3 TX Hereford, ad 365
 6/23 tr
 0905 KBIM 94.9 NM Roswell, ID 410
 6/24 Es
 1840 WNCT 107.7 NC Greenville, ad
 1847 WQSM 98.1 NC Fayetteville, ad, ID
 1855 WGH 97.3 VA Newport News, ID
 gave station address in Hampton, VA
 1855 WQMG 97.1 NC Greensboro, ID
 1856 WKZL 107.5 NC Winston-Salem, ad, r
 "FM-107"
 1859 WKTC 104.3 NC Tarboro, ID
 1900 WFAV 104.1 OH Portsmouth, ID
 1903 WOLC 102.5 MD Princess Anne, ID
 1910 WCOL 98.3 VA Lynchburg, ad, ID
 1914 WAFR 99.5 NC High Point, ID
 1920 WDSB 94.7 DE Dover, ID, state #39
 1922 WPEZ 94.5 PA Pittsburgh, wx
 1926 WJMD 94.7 MD Bethesda, wx, ID
 1933 WAYV 95.1 NJ Atlantic City, A. C. ment,
 in just a matter of sec.; state #40 at
 1400+ miles.
 1938 WDIF 94.3 OH Marion, "DIF," local ref.
 1944 WRMZ 99.7 OH Columbus, wx,
 disc, "Z-100"
 1950 WNCI 97.9 OH Columbus, ID
 6/26 Es
 0906 KZAN 97.9 UT Ogden, ID, c
 0909 KMYK 94.9 NM Aztec, "Quick-FM," ad
 0914 XETRA 91.1 BCN Tijuana, S. D. ment.,
 "91-X-FM"
 0916 KXYX 96.5 CA San Diego, "Kixie 96FM"
 0919 KFSB 94.1 CA San Diego
 0924 KIFM 98.1 CA San Diego, ID
 0928 KSON 97.3 CA San Diego, ID
 0930 XHRM 92.5 BCN Tijuana, "92-Star-5-FM"
 in EE, then full legal ID in SS; soul
 1551 WAUU 95.7 WI Milwaukee, "ZUU"
 1552 WZZR 95.7 MI Grand Rapids, ID
 1559 WJGS 98.5 MI Houghton Lake, ID
 1600 WLAK 93.9 IL Chicago, ID
 1601 WNUR 89.3 IL Evanston
 1806 KFAH 92.1 NE Alliance, local nx
 6/28 Es
 0930 WAMU 88.5 DC Washington, ID, with ad
 seeking dollars
 7/1 tr
 0853 WRNO 99.5 LA New Orleans, ID 500
 "Disc & Data" (discussion program)
 0857 WWL 101.9 LA New Orleans, wx, ID
 0859 KFNB 101.9 OK Oklahoma City
 Es:
 2138 KDKE 93.3 AZ Mesa, ID
 2141 KXTC 92.3 AZ Glendale, ID
 2144 K??? 94.9 K-Joy or K-Jo? New cl for
 KAIR? Has EZ format.
 2148 KENO 92.3 NV Las Vegas, ad

7/1 Es		7/2 Es	
2150 KLUC 98.5 NV Las Vegas, wx, ID		0955 WMOR 92.1 KY Morehead, ad	
2154 KFMS 101.9 NV Las Vegas, "K-FM, Rockin' Vegas"		0957 WRBQ 104.7 FL Tampa	
2216 KJOK 93.1 AZ Yuma, ad		0959 WLRK 107.9 FL West Palm Beach	
7/2 tr		1000 WTOG 94.1 GA Savannah	
0028 WRNO 99.5 LA New Orleans, ID 500		WDEO 92.3 FL Orlando	
0057 WWNO 89.9 LA New Orleans, s/off		1001 WVFM 94.1 FL Lakeland, wx	
xmtr at WDSU-6, Chalmette		WWLV 94.5 FL Daytona Beach, ad	
0059 WWL 101.9 LA New Orleans, ID		1007 WORJ 107.7 FL Mt. Dora	
0200 WTUL 91.5 LA New Orleans		1015 WBEU 98.7 SC Beaufort	
0215 WQXY 100.7 LA Baton Rouge, ID		1018 WYRL 102.3 FL Melbourne	
0230 WAJE 107.3 FL Pensacola, wx, w/ID		1020 WYNF 94.9 FL Tampa, ad	
0302 WTKX 101.5 FL Pensacola, ID		1025 WBLE 105.9 FL De Land, ad	
0857 WTYX 94.7 MS Jackson, ID 500		1029 WSNT 94.3 GA Sandersville	
0859 WAT 97.1 MS Meridian, ID 585		1030 WPEH 92.1 GA Louisville	
Less than a 200 mi. gap between the		1033 WRKT 104.1 FL Cocoa Beach	
trop & Es, with KNOE good enough to		1036 WORG 103.9 SC Orangeburg	
be confused for Es; later had unIDed		1041 WAUC 105.7 GA Augusta	
Es on 101.9.		1046 WNEZ 99.3 SC Aiken	
Es:		1052 WFOY 97.7 FL St. Augustine	
0905 WLNT 92.3 AL Montgomery		1056 WDAI 94.7 IL Chicago, Chicago mentioned	
0914 WGBZ 96.7 ?? I checked all the news		1100 WFPV 88.9 SC Rock Hill	
columns to no avail. Can anyone on the		1103 WRNS 95.1 NC Kinston	
East coast tell us the location of this?		1110 WPHK 89.7 SC Columbia	
0915 WXTV 96.9 SC Charleston		1115 WKJF 92.9 MI Cadillac	
0909 WWVL 93.9 FL Miami Beach		1119 WLSE 94.3 NC Wallace	
0921 WINZ 94.9 FL Miami Beach, ad		1123 WQSM 98.1 NC Fayette Co, "q-98,"	
0923 WATA 97.3 FL Miami, "A-1-A"		S. E. NC wx	
0941 WHYI 100.7 FL Ft. Lauderdale, ad		1125 WAUU 95.7 WI Milwaukee, "ZUU"	
"V-100"		1126 WYFD 96.1 NC Raleigh	
0942 WSHB 103.5 FL Ft. Lauderdale		1130 WVWF 89.1 VA Roanoke	
0944 WEAT 104.5 FL West Palm Beach		1131 WKNS 90.5 NC Kinston	
0951 WLQY 98.7 FL Ft. Pierce, ad		1256 CJOM 88.7 ON Windsor, ad, ID	
		also:	
		1025 WPXI 95.1 SC Charleston	

Ken Simon, 513 Sixth Ave. South, Lake Worth, FL 33460 - May 22 to July 2 EDT

22 MAY 79	1723 EDT Es	91.7 WETL South Bend IN	- sign off
	1730	88.1 WVEE Elkhart IN	- w/rock & ID
	1750	88.3 WTAA Interlochen MI	- \$ATC w/ID
	1816	88.7 CJOM Windsor ON	- R id, reminder to vote
	----	gw 89. WRMB Boynton Beach FL	- new local
	1923	Es 99.5 WLOL Minneapolis MN	- twin cities mentioned
	1925	95.	- Queen 95
	1927	88.7 WERN Madison	- ID
	1930	88.3 WTAA	- ID
	1934	100.3 WCTS Minneapolis MN	- devotion S. St. Paul min. ment.
	1956	102.9 WBCS Milwaukee WI	- TS & ID
	2000	102.9 WCCO Minneapolis MN	- ID mentioned
	2003	103.3 WFRW Wisconsin Rapids WI	- ID & "W103"
	2004	104.	- Am./Inf.nx, "FM 104" WBCM??
	2010	105.5 ??? w/BBL NY Yankees	- w/CDT TS, D. H. Warn
		MUF up to 107	
30 MAY 79	2050	tr 95.3 WSOR Fort Myers FL	- ID
	2101	Es 88.1 WAUF Akron OH	- c, spot and ID
	2102	92.1 CHAY Barrie nt	- ads, ID
	2103	97+ unID c, w/English Country Music suit	
	2109	tr 101.9 WREW Fort Myers FL	- k, ID
		97.5 WPCV Winter Haven FL	- ad for Lakeland b
	Es	89.9 WERC Erie PA	- TS, wx, ID
05 JUN 79	2036	88.5 KUHF Houston TX	- ID
		88.7 unID c, w/Chicago Symphony Orch. in Europe	
09 JUN 79	0628	tr 91.5 WCIE Lakeland	- g, ID
24 JUN 79	1649	Es 88.7 CJOM w/rock, temp. (18)and news...	
	1707	92.9 WKJF Cadillac MI....tent w/ Tigers bbl, ad for MI lottery	
	1749	88.7 WAMU Washington DC	

24 JUN 79	1837	Es	93.1 WPAT Paterson NJ 'Camden' disco mentioned
	1845		106.1 unID w/CBC sports report golf CHEZ???
	1850		101.9 WNES Central City KY, ad
	1855		104.9 WSHY Shelbyville IL, end rel., s/off
	1903		107.1 WKRV Vandallia IL end prog. s/off
	1907		105.1 unID SS w/baseball, Radio Jacinto????
	1911		88.5 KUMR Rolla MO, \$, ID
	1914		107.5 WGGI Chicago IL, W-W-G-G-C-C-I-I ID
	1916		106.5 unID Ohio epilepsy spot w/mention of Crown Point IN
	1921		102.9 WBCS Milwaukee Wis-weather ID, c
	1923		99.5 WSEW Chicago IL "WE-FM" ID
	1928		104.7 Polka w/WTKO ID...also "105 K"
	1933		106.9 KJFF Jefferson MO, "FM 107 K-Jeff"
	1954		91.7 KSTU Iowa City IO NPR, ID
	2115		88.7 WFCR Amherst MASS, NPR-Newport Jazz Festival
25 JUN 79	1338		88.7 WSIE Edwardsville IL, sports news then ID
	1346	tr	107.3 WBA St. Petersburg FL ID & MOR
	1401	Es	90.9 KMW Warrensburg MO, ID "FM 91", "voice of Johnson County also tr WDBO 92.3, WFLA 93.3
26 JUN 79	2053		88.3 unID SS/MOR w/Sexta avenida mentioned
	2101		89.7 unID SS man talking about Nicaragua'R. Payaso'???
01 JUL 79	1218	Es	92.9 KPGC Hannibal MO w/American FM nx, mor & fireworks ad
	1231		94.7 KFTS Springfield MO "Ozark Country" k, ID
	1305	tr	93.7 WPUZ Ocala FL, ad, AP nx
02 JUL 79	1928		106.3 WAFC Clewiston FL, k, ID "Country 106"
	1930	Es	88.7 WSIE Edwardsville IL, ID, nx
	1932		91.9 WSIU Carbondale IL, IL nx w/SIU mentioned, \$
	1958		88.3 unID about Mark Lane and Guyana....
	2002		95.7-9 unID with Iowa news, call sounded like KMCD ????

Danny Buntin, 1312 N.Skyline, Stillwater, OK 74074 - June 24 CDT

I hope everyone notices my new address change. I haven't moved there as of this writing but expect to shortly. It looks like better reception possibilities await me at the Skyline site. As the street name may imply, the area does sit up rather high on a ridge, in contrast to my former home on low ground, near a flood plain. I may get some new antenna gear.

Meantime, DX action is nil here. June was much like last July with only two weak Es openings and no tr. Anyway, the most DXless June I ever experienced.

June 24 Es

1824 WCOX 100.3 DC Washington, "OK 100"
1830 WRQX 107.3 DC Washington, "Q 107"
1838 WSNJ 106.5 NJ Bridgeton, g

June 24 Es

1842 QHUE 96.3 DC Washington, ID
1901 WQQQ 99.9 PA Easton

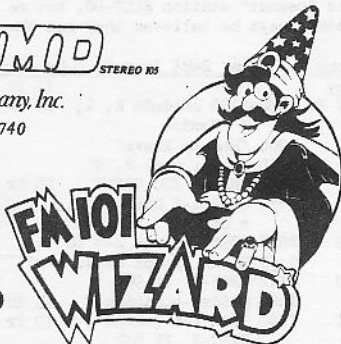
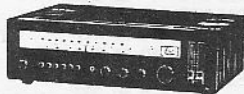
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Hagerstown Broadcasting Company, Inc.
Box 399, Hagerstown, Maryland 21740



STEREO FM 92.3 MHz



KFUO/LUTHERAN RADIO

850 AM 801 DeMun Avenue
99.1 FM St. Louis (Clayton) Missouri 63105



EASTERN TV-DX

Robert Kramer
3406 W. Pierce
Chicago, IL 60651

August, 1979

Deadline: 5th

Its beginning to look like another poor E-skip season. Skip since mid June has been next to nonexistent, except for a couple of short, weak openings. Tropo is also less than could be hoped for, with few loggings in excess of 400 miles. John F. Combs had several 400-500 mile tropo loggings in both May and June. The only other reports of those distances were my 2 brief openings in mid June. Hopefully the results will have improved by next month.

Wayne Thompson Route 2, Box 156 Silver Springs, FL 32688		(EST/EDT)
March		30 Es 1700-2000 extreme CCI 2-3 & 4-6, no ID's
29 MS	0530-0600 4 stations no IDs (Zeta Draconids) 2-3	
31 Tr	0800 WPLG-10 FL 270 0801 WKCT-7 FL 270	
April		JUNE
5 Tr	Miami V's, 7 & 10	3 Es 2320 WJBK-2 MI 945
7	0800 WCFT-33 AL 430	4 1830 WIMP-3 PR 1200
9-12	early morn. Miami V's 7 & 10	5 2030 KIII-3 TX 950
11 Ms	0548 KYN-3 PA 865	6 2050 XEFB-3 Mex 1160
16 Tr	0549 WEVU-26 FL 212	7 1945 XEFB-3 Mex 1160
21 Ms	0544 WCBS-2 NY 950 0540-0558 Unideds 0600-0625 Unideds	8 1800 KENW-3 NM 1300 1900 KACB-3 TX 1130 2200 KLNK-3 NE 1300 2300 KMTV-3 NE 1150
May		11 Tr 0548 WCBD-2 SC 295 0602 WJBF-6 GA 310 12 2300 WALB-10 GA 200
1 Es	2030 Unideds 2	13 Es 2030 WTSC-3 WI 1065
2	1957 XEFB-3 Mex 1160	18 Tr 0548 WDHN-18 AL 250
3	1837 YSR-2 EL Sal. 1160 1854 YSR-4 EL Sal. 1160	0549 WJCL-22 GA 220 0551 WEVU-26 FL 212 0556 WXLT-40 FL 130
10	2100-2200 CCI 2-3, "antenna north"	20 Es 1830 KARD-3 KA 1060
11	1600-1800 CCI 2-4 "antenna SSW" 1830 KDFW-4 TX 925 1900 KATC-3 IA 610 1908 XEFB-3 Mex T	23 2000 WIMP-3 PR 1200 2030 WAPA-4 PR 1200 24 1100 KRGV-5 TX 1020 29 1740 KDLH-3 MN 1360 30 1201 KLNK-3 NE 1300
24 Es?	0548 KTVO-3 MO 990 Wayne feels this may have been tropo, ed.	
28 Tr	0815 WYEA-38 GA 280 0825 WDHN-18 AL 250 0830 WSFA-12 AL 325 0831 WMBB-13 FL 220 0832 WJHG-7 FL 220 0855 WTVY-4 AL 250 0859 WTVM-9 GA 280 "under WFTV" 0900 WALB-10 GA 200	

"June has drawn to a close, and suprisingly, DX catches are much better this year than last, for this month, and it appears that hopefully E-skip is on the up-swing. We've had a fairly good spread of both tropo and E-skip during June, however, not as many stations received as I would have liked. In my report for June, I have not included the numerous days in which CCI was observed on the lower channels (about every day all month) and not identified. This would have entailed about a page of nothing. We would not have included the "peanut" station WXLT-40, but we receive it here only about 2 or 3 times a year. My father says he believes they run the thing from 4 "D"-cell flashlight batteries, hi."

John F. Combs 2485 Ivan Ct. Orlando, FL 32807 305-677-0066		(EST/EDT)
May		19 Tr 2315 WCIV-4 SC 309
8 Es	1850-1900 Unideds 2, 4, 5 Mexico	20 0025 Panama City V's
	1900 "Had to leave"	Es 0043 KMOL-4 TX T
	2030 "back: weak 2, 4"	0040 KIII-3 TX 978
	2032 XHAO-4 YUC 8000?	0043 KNID-2 TX T
	2050 Unided-2 Diag. roll, + offset	0048 XEFB-3 Mex 1185
9	2030-2200 Various 2-4 to S./S.E.-wk w/poor sync.	Tr 0132 WCTV-6 FL 226 WCIX-6 FL 226
10	1522 WBEM-2 IL 987 1604 Unided-4 Canada ? 1740 t/in 2-6 jammed	"both good on FM rx after local off; 0 on TV"
11	KPRC-2 TX 857 KDFW-4 TX 967 KXAS-5 TX 967 1830 "Had to leave: MUF at least 90.1 MHz"	Es 0138 XHD-4 Tams 1135 0145 XHCR-2 Tams 995 Matamoros "EE as per Dyer? McAllen ads, etc.
		0230 KPRC-2 TX T 0235 KMOL-4 TX 1025

John F. Combs Cont'

May
 20 Es 0245 "P/Out at this point but may have still been Es- prob. all poss. stns. had S/Off"
 2045 KFDX-3 TX 1078
 2115 KDFW-4 TX T
 2115 KXAS-5 TX T
 2129 KWAB-4 TX T
 2200 KPRC-2 TX T
 21 Tr 0700 WTVY-4 AL 299
 KPLC-7 LA T
 KVUE-8 LA 525
 WFSU-11 FL 230
 KMBT-12 TX T
 WMBB-13 FL 263
 WDHN-18 AL 301
 Unided 26 KRIV/
 WGNQ?
 0725 WRBT-33 LA 603
 KHTV-39 TX 857
 "VAFI 4555"
 0745 "Had to leave"
 2215 WALA-10 AL 415
 WLOX-13 MS 488
 WMAH-19 MS 479
 2234 WKRG-5 AL 417
 2236 WRBT-33 LA 603
 2303 WFTQ-42 AL 417
 2307 WTVY-4 AL 299
 WDHN-18 AL 301
 2335 WSRB-23 FL 375
 "2nd time ever,
 38 kw & low tower
 VAFI 3314 at peak"
 2350 WMAU-17 MS 590
 "typical diagonal
 CCI to WJKS...
 why?"
 22 0020 WJTV-12 MS 597
 WAPT-16 MS 592
 0026 WDAM-7 MS 514
 0030 WEAR-3 FL 401
 "To bed"
 0625 WSFA-12 AL 380
 WDHN-18 AL 301
 WYEA-38 GA 341
 0630 WALA-10 AL 415
 0649 WKRG-5 AL 417

22 Tr 0659 WCCV-20 AL 392
 WKAB-32 AL 394
 0700 WWSG-42 AL 469
 0709 WQWB-41 GA 318
 0719 WSLA-8 AL 437
 Selma
 "Long sought"
 0720 WTOG-11 MS 508
 0722 WHAW-14 MS 528
 0725 WMAA-29 MS 598
 WMAH-19 MS 479
 0747 WDCO-15 GA 294
 0800 WJSP-28 GA 357
 WACS-25 GA 302
 0810 WANX-46 GA 403
 WETV-30 GA 403
 0815 WMDR-2 AL 364
 "Under WESH"
 0830 "Had to leave"
 Es 1445 T/in CCI 2-4
 1458 KCKT-2 KA 1209
 1500 KMTV-3 NE T
 1559 KTVY-4 OK 1059
 KFDX-3 TX 1078
 KOET-3 OK 948
 1602 XHD-4 Tam 1135
 1624 XEZ-3 QRO 1315
 1625 KAMR-4 TX 1301
 1702 KIII-3 TX 978
 1704 WNEB-5 MI 1041
 1719 WFRV-5 WI 1133
 1720 WTMJ-4 WI 1069
 1724 WJMN-3 MI 1253
 1759 WJW-4 MI 968
 1825 "Had to leave,
 1700 TV so jammed,
 ID's nr. impos.,
 so conc. on FM; CCI
 on 2 noticed all
 even, at UCF"

28 Tr 0840 WRBC-3 GA T
 Panama City Vs
 0844 WTVY-4 AL 299
 0854 WALB-10 GA 244
 2130 WRJA-27 SC 373
 WJWJ-16 SC 290
 2200 WJPM-33 SC 408
 2230 WBTW-13 SC 408
 Es 2305 WMLD-2 TX 1267
 2320 KWAB-4 TX 1221
 Tr 2320 Panama City Vs
 Es 2329 KXAS-5 TX 967
 2335 KXTX-5 TX 1270
 2340 KDFW-4 TX 967
 2342 MUF 92.9 MHz
 2353 KFDX-3 TX 1078
 29 Es 0004 KJAC-4 TX T
 Tr 0004 WKRG-5 AL T
 Es 0028 KATC-3 LA T
 0120 Tent. MUF 92.9
 0138 KYTV-3 MO 896
 short duration Ms?
 Tr 0140 WEAR-3 FL 401
 0144 WTVY-4 AL 299
 0145 "To bed"
 30 Es 1855 CKVR-3 ON 1096
 1903 CHNB-4 ON 1216
 1906 CKSO-5 ON 1252
 Sudbury
 1939 CHRO-5 ON 1229
 Pembroke
 1953 CBLT-5 ON 1058
 1958 CKCO-2 ON 1133
 2000 TV a mess; U.S.
 stns. to; MUF may
 have hit 107.9 at
 one point; most
 f/out about 2230
 2355 WMT-2 IA 1175
 KQTV-2 MO 1089
 WESH off; micro-
 wave prob.
 June
 1 Es 1010 KQTV-2 MO 1089
 KMTV-3 NE T
 WHBP-4 IL T
 1028 KYTV-3 MO 896
 1035 KOCO-5 OK T
 1038 KTVY-4 OK 1059
 1040 MUF 91.9 MHz
 2 Tr 2030 Charleston Vs

"Comments next time. 73. John"

Leslie J. Prus 8231 Fresno Lane, #203 Alexandria, VA 22309 703-360-9127 (EDT)

May
 7 Tr 0400 WVEC-13 VA 130
 0431 WCAU-10 PA 140
 9 Tr 0545 WTAR-3 VA
 WSHV-3 VA
 13 1920 WFHL-17 PA 140
 13 Tr 1920 WLVT-39 PA 140
 WKBS-48 PA 140
 23 Es 1030 KTCA-2 MN

Michael L. Hogan 13910 Chippewa Ave. Apt. 1 Burnham, IL 60633 312-868-4392 (CDT)

June
 29 Es 1858 "Severe CCI due to Es was noted on the 29th & 30th. Several tropo openings were also noted, but nothing spectacular, yet I did receive developed pictures of WVED-10 & WTVS-56 from some May ducts into the Detroit area. My equipment continues to be the Magnavox 9" B&W TV using the built in antenna for UHF and UHF. Occasionally I use a Radio Shack 4 bay antenna for UHF, but only when conditions are super. For the most part all DX is received with built in antennas. My log total has now cleared to 99 stations, with a celebration planned when the 100 mark is reached. Remember to report your station details and statistics to my TV statistics column, as well as supporting the WUD with your reports and recruiting new members. 73."

Robert Kramer 3406 W. Pierce Chicago, IL 60651		312-235-5188		(CDT)
June		20 Es 1900	KIII-3 TX	30 Es 1100 KOA-4 CO
11 Es 1120	KIII-3 TX	23 Tr 0045	KEYC-12 MN 363	1122 CBHT-3 NE
	KGBT-4 TX	0130	WHO-13 IA 315	1130 CHSJ-4 NB
13 Ms 0542	KTEW-2 OK		KSFY-13 SD 488	1230 WCAX-3 VT
Es 1919	WSAV-3 CA		Sioux Falls	
	WIDU-3 FL		KELO-11 SD 488	July
15 Tr 0016	WEAU-13 WI 288	2100	WFFT-55 IN	2 Tr 2130 WIPB-49 IN
	KEYC-12 MN 363		WKBD-50 MI 240	2144 WCET-48 OH
0034	KTTC-10 MN 296		WTVS-56 MI 240	3 0450 WKRC-12 OH
	WTCH-11 MN 360		WCPR-62 MI 240	WHAC-9 OH
0140	KTIV-4 IA 462	24 0500	WDIV-4 MI 240	WHAS-11 KY
0200	WCCO-4 MN 360	Es 1759	KACB-3 TX	
0245	KSTP-5 MN 390	Tr 2200	WTVP-47 IL	
	St. Paul		WHRM-20 WI 250	
16 0300	WSAU-7 WI 250	30 Es 1030	KATC-3 IA	

On June 23 Karl Forth, Robert Goodman, and myself put up my new TV antenna installation. It consists of an Archer V-185, 160", 34 element VHF-FM, and an Archer U-100 80", 25 element UHF corner reflector yagi on a 36' telescoping mast (presently at about 18' above the roof due to many problems) and an Archer rotor. After 5 days use, the rotor went, so I had to take the equipment down. We put it back up (at about 25' above the roof), but poor guying and more rotor problems forced it to come down again. I missed a couple of openings (E-skip) because of this and a short in the connection to my Jerrold HQ-91 low band trap. Finally everything is working properly, but now cx are terrible, so I still can't see how well the V-185 works. The U-100 is a gain improvement over the two 4 days that I had hooked together. The U-100 produces a very weak signal of WKBD-50 & WFFT-55 constantly. Both of these were indicators of tropo with the old set-up. I was beginning to wonder why WAND-17 was suddenly coming in snowfree almost every day (they used to be very tough here), its because they increased power to 5 million watts. WTVP-47 also has been coming in quite strong as of recent (they also were rare), but that could be because of my improved UHF set-up. I can hardly wait until my back-ordered Winegard traps arrive. At present there is just too much overloading on my Sony TV-131. That has increased since I added the V-185. Also, one of my 2½ year old Radio Shack FM traps has gone bad, so I only have 2 traps that can easily be used for FM and WMAQ-5 trapping.

Since I just took over the column, I guess I should introduce myself. I am 26 and work as a photo lab technician at a company specializing in art work for advertisements. I recently graduated from Southern Illinois University in Carbondale with a B.S. in Radio-TV. I began DXing in 1968 on shortwave. I expanded my horizon in 1970 when I began my BCB work and have progressed to my present level of 2497 stations heard from 49 states, 10 Canadian provinces and 31 countries. I've been DXing TV since 1971, though I really didn't become involved until late June of 1976 when I accidentally discovered a real major Es opening. After about 2 years of arm twisting by John Zondlo, I joined WTFDA last September. Little did I know that I would be editing this column less than a year later, hi.

I really have no guidelines for reporting other than to ask you to follow the format of the column as it appears in VUD. I would prefer you to not use report forms, but if you do please use only WTFDA forms, as others have the information horribly out of order, making it harder for me to type. Also, if you can't type, please write neatly. If I have trouble reading your report, I will just throw it out. 73.

Out of Sync!

CATJ Satellite Journal, the TV program aimed at CATV industry audience and hosted by TV DXpert Bob Cooper, Jr. is carried on RCA Satcom I, not Satcom II as we noted in the May and June VUDs. Apologies to TVRO freaks—we had our "birds" mixed up!

FM STATISTICS should have been listed in the Table of Contents of the June VUD. It appears on page 38 of that issue.

WESTERN TV-DX

August 1979

Fred McCormack
 Box 5221
 State University Sta.
 Fargo, ND 58105
 Deadline: 5th

This month there are only three reports. I know that conditions have not been exceptional, but I am sure that a lot of DX is going unreported. Your reports are necessary to present an accurate picture of western TV DX.

The first days of July were really slow here. I had five days in a row away from work (a rare DX'ing opportunity), but very little was seen.

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

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

Equipment: 1976 model 9-inch b&w penncrest, Archer v-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

June 1979

1 Es	1225	XHAqt	5	BCN1010	5 Es	0825	unid	Cuba	3	7 Es	2032	KORK	3	NV	1050						
	1237	XHBC	3	BCN1010		0835	KWGN	2	CO	810	2058	KOAI	2	AZ	855						
		KNBct	4	CA	1190	0859	KNXT	2	CA	1190	2125	KNBct	4	CA	1190						
	1313	XETV	6	BCN1100		0955	(2 Cuba nets w/				2200	XHBct	3	BCN1010							
		(MUF 105.9 @ 1335)					one of each on 2,3)				8 Es	0910-1240	unids	2,3							
	1330	KUATt	6	AZ	750		1028	WEDU	3	FL	985										
	1402	KORK	3	NV	1050			KOTA	3	SD	1040		1359-1405	WESH	2	FL					
	1429	KTVQ	2	MT	1245		1035	WESH	2	FL	1055		1440-1500	unids	2,3						
	1525	f/out						WJXTt	4	FL	1015		1504	WCBD	2	SC	1120				
	1745-50	unid	2	n			1058	WTVJt	4	FL	1150		1558	WDTN	2	OH	1075				
	1828	KTWO	2	WY	1015			WCIX	6	FL	1150		1604	WTWO	2	IN	935				
	1832	KTVQ	2	MT	1245			WUFTt	5	FL	970		1615	WSAZ	3	WV	1100				
		(MUF 97.9 @ 2018)						1059	WSAV	3	GA	1050		1620	WCIVt	4	SC	1120			
	2000	KOTA	3	SD	1040			(MUF 107.3 @ 1118)						1829	WEGT	6	NC	1250			
		KSDJt	5	SD	1060			1208	WCTV	6	GA	875		(MUF 107.9 @ 1858)							
	2129	KUSD	2	SD	920			1315	WCCOt	4	MN	1110		2305	unids	2,3					
	2301	KTWO	2	WY	1015			(MUF 89.7 @ 1330)						9 Es	0000-0030	unid	2	ne			
2 Es	0030	KUTV	2	UT	1080			1325	KSTPt	5	MN	1110			0650-1030	unids	2,3				
	0050	f/out						1359	WBBM	2	IL	1045									
	0829	WESH	2	FL	1055			1435	f/out												
	0900-0905	unid	2					1645	unids	2,3											
	1045-1100	unid	2					1659	WKZt	3	MI	1140			1915-2100	unids	2,3				
		spanish sw						1710	WJMN	3	MI	1280			2059	KDIX	2	ND	1225		
	1101	XEWO	2	JAL	690			1740	WCCOt	2	MN	1110			10 Es	0615-1030	unids	2-6			
	1155	WESH	2	FL	1055			1820	WCMLt	6	MI					0830	WAVE	3	KY		
	1255-1530	unids	2,3					(MUF 98.1 @ 1845)								1200-1205	unid	2	ne		
	1329	KTVI	2	MO	790			2100	WDTN	2	OH	1075				1320-1525	unid	2			
	1625-1630	unid	2	e				2100	f/out							11 Es	0720-1400	unids	2-6		
	2030-2300	unids	2-5					2130	f/out								(MUF 107.9 @ 1015)				
	2058	KTVQ	2	MT	1245			0900-1145	unids	2-4							0729	CKCO	2	ON	
		KOTA	3	SD	1040			0928	KTWO	2	WY	1015					1020	WJIM	6	MI	
		KSDJt	5	SD	1060			0955	KWGN	2	CO	810					1030	KAAL	6	MN	
	2059	KDIX	2	ND	1225			1920-2000	unids	2							1230	KWGN	2	CO	
3 Es	0825	KTVkt	3	AZ	835			2024	WSJK	2	TN	1010					1259	KORK	3	NV	
	0828	KNXT	2	CA	1190			2058	WFMY	2	NC	1175					1359	KUSD	2	SD	
	0835	KNBct	4	CA	1190			2115	f/out								1645-1700	unids	2,3		
	1010	WESH	2	FL	1055			2150-2155	unid	2							2150-2205	unid	2	n	
	1030	f/out						2255-2300	unid	2							2305	WNGE	2	TN	
	1415-1420	unid	2	n				2330-2335	unid	2	ne							2320	unid	3	
	1530	WTVJt	4	FL	1150			7 tr	0001	KNID	2	TX	275					2320	f/out		
	1555	WPBTt	2	FL	1150			Es	0915-1055	unids	2	sp						12 Es	0837	WWJ	
	1659	WESH	2	FL	1055				1125	KWGN	2	CO	810						0930	KDKA	
	1717	WJXTt	4	FL	1015				1128	KOA t	4	CO	810						0938	WTAET	
	1855	WMARt	2	MD	1410				1229	KOTA	3	SD	1040						0959	CKCO	
	2055	f/out								KTVS	3	CO	815						1028		
	1900-2050	unids	2-4s							1330	f/out								1029	KTVkt	
	2340-2345	unids	2,3							1755-2200	unids	2-6							1045	KTVMt	
	2340	KID	3	ID	1215					(MUF 94.9 @ 2048)									1108	CKCY	
5 Es	0040-0110	unids	2-4							1759	WJMN	3	MI	1280					1128	WBAY	
	0800	unid	Cuba	2							WBAY	2	WI	1190					1215	KNXT	
	0825	KTWO	2	WY	1015						KUSD	2	SD	920					1225	KORKt	
											1900	KDLO	3	SD	1070				1227	KPHot	
											1959	WWAY	3	NC	1250				1228	KTVK	
																			1310	KNBct	
																				4	CA

Pat Dyer (continued)

June 1979

12 Es 1330 XHAqt 5 BCN1010 (MUF 94.1 @ 1343)	14 tr 2359 KNOM 9 TX 295	19 Es 1050 f/out
1347 XHBC 3 BCN1010	15 Es 0000-0015 unids 2,3	1150-1300 unids 2,3
XEVTV 6 BCN1100	tr 0000 KOSA 7 TX 230	1229 KDIX 2 ND 1225
1430 f/out	0014 KSWS 8 NM 440	1258 KUSD 2 SD 920
1540-1545 unid 2	Es 0910 KQTV 2 MO 750	1759 WMAB 2 MS 615
2040-2120 WCBdt 2 SC	0959 KNOP 2 NE 815	1803 WCBdt 2 SC 1120
13 Es 0745-0800 unids 2,3	KOTA 3 SD 1040	1825 Cuba t 2
0805 KLNet 3 NE 785	KMTV 3 NE 830	1830 KID 3 ID 1215
0810 KQTV 2 MO 750	1000 KUSD 2 SD 920	1845 f/out
(MUF 94.1 @ 0821)	1030 KPLO 6 SD 995	20 Es 0930-1200 unids 2-5
0859 KOTA 3 SD 1040	1059 KPRY 4 SD 1035	(MUF 89.9 @ 1100)
KDIX 2 ND 1225	1101 KDIX 2 ND 1225	1030 XHBCt 3 BCN1010
KTWO 2 WY 1015	(MUF 104.9 @ 1145)	1050 KVOAt 4 AZ 750
0922 KWGN 2 CO 810	1118 KFVRT 5 ND 1200	1055 KNCBct 4 CA 1190
0950 KOA t 4 CO 810	1459 WSJK 2 TN 1010	KTLAt 5 CA 1190
(MUF 98.7 @ 1000)	1545 3 Cuba(tp)	1058 KNXT 2 CA 1190
1003 KSL t 5 UT 1080	1550 2 Cuba(tp)	1129 KORK 3 NV 1050
1035 KTVxt 4 UT 1080	1825 unid 2 spanish w	1710 unids 2-6
1210 KVVUT 5 NV 1040	1836 KNXT 2 CA 1190	(MUF 94.9 @ 1730)
(MUF 92.3 @ 1215)	XHBCt 3 BCN1010	1715 WBAY 2 WI 1190
1229 KORK 3 NV 1050	1930 KEYT 3 CA 1270	1759 KTWO 2 WY 1015
1245 f/out	1935 KNCBct 4 CA 1190	KOTA 3 SD 1040
1320 KNCBct 4 CA 1190	2000 f/out	1800 KDSJt 5 SD 1060
1328 KNXT 2 CA 1190	16 Es 1840-1910 unids 2,3	1828 KID 3 ID 1215
1340 f/out	1940-1945 unid 2 n	1830 WWJt 4 MI 1225
1835-40 unid 2	17 Es 0512 KUTV 2 UT 1080	1832 WKZO 3 MI 1140
1940-2015 unid 2	tr 0514 KTBS 3 LA 350	(MUF 89.3 @ 1830)
1954 WFMY 2 NC 1175	KLTV 7 TX 280	1835 KLNet 3 NE 785
2040-2150 unids 2	0515 KCBd 11 TX 340	1929 KWGN 2 CO 810
2350 unids 2,3	0516 KLBK 13 TX 340	KOA t 4 CO 810
14 Es 0000-0050 unids 2,4	Es 0530 f/out	(MUF 107.9 @ 2016)
0005 WFWO 2 IN 935	tr 0546 KMID 2 TX 275	2105 WFWO 2 IN 935
0035 WBEM 2 IL 1045	KOSA 7 TX 280	2115 WRTV 6 IN 995
0805-0830 unids 2-4	Es 0600 unids 2	2128 WJBKt 2 MI 1225
0829 KUTV 2 UT 1080	(lull 0645-0710)	2129 KUSD 2 SD 920
KTCA 2 MN 1110	0729 KNXT 2 CA 1190	KDLO 3 SD 1070
KDLH 3 MN 1250	0730 KNCBct 4 CA 1190	2150-0000 unids 2-5
0900 KDIX 2 ND 1225	KTLAt 5 CA 1190	2335 WFMY 2 NC 1175
0929 KOTA 3 SD 1040	0745-0810 unids 2,3	21 Es 0000-0010 unid 2
0959 KID 3 ID 1215	1105 unids 2	tr 0644 KTEW 2 OK 485
KTVQ 2 MT 1245	(lull 1110-1130)	Es 0905-1000 unids 2,3
KTVxt 4 UT 1080	1140 WCBd 2 SC 1120	0928 KLNet 3 NE 785
1159 KTWO 2 WY 1015	(lull 1150-1215)	0959 WBAY 2 WI 1190
(MUF 104.3 @ 1220)	1225 WFMYt 2 NC 1175	tr 1759 KMID 2 TX 275
1333 KUTV 2 UT 1080	1240 f/out	22 Es 0745-0930 unids 2-6
1459 KDIX 2 ND 1225	2030-2130 KUTV 2 UT	(MUF 98.8 by 0948)
1740 KTLAt 5 CA 1190	2040 KTVxt 4 UT 1080	0859 WCIA 3 IL 935
1747 KEYT 3 CA 1270	(lull to 2155)	0929 WBEM 2 IL 1045
KNXT 2 CA 1190	2230 apx f/out	0959 WDTN 2 OH 1075
(MUF 98.5)	18 Es 0945 unids 2,3	WKYC 3 OH 1250
1823 KNCB 4 CA 1190	0959 WDTN 2 OH 1075	1140 f/out
1840 KVVUT 5 NV 1190	tr 1029 KMCC 28 TX 340	23 Es 0850 unids 2-4
1858 KTWO 2 WY 1015	KCBd 11 TX 340	0859 KOTA 3 SD 1040
1859 KOTA 3 SD 1040	KLBK 13 TX 340	KDSJt 5 SD 1060
KDIX 2 ND 1225	Es 1030 KBCI 2 ID 1370	(MUF 99.1 @ 1012)
1910 KORK 3 NV 1050	tr 1100 KFdx 3 TX 305	1100 KTVQ 2 MT 1245
KOAI 2 AZ 1050	Es 1116 KWGN 2 CO 810	1226 KID 3 ID 1215
(MUF 93.9 @ 1957)	1158 KTVQ 2 MT 1245	soon f/out
2033 KNOP 2 NE 815	1159 KTWO 2 WY 1015	1510-1630 unids 2
2100 KTWO 2 WY 1015	1345 f/out	1633 KNXT 2 CA 1190
KTVS 3 CO 815	1315 WCBdt 2 SC 1120	1635 KNCBct 4 CA 1190
2205 KUTV 2 UT 1080	WSAVt 3 GA 1050	1640 KEYT 3 CA 1270
2230 unid 2 spanish	1837 WSB 2 GA 860	1645 XSWHt 6 SON 700
(MUF 95.5 @ 2255)	(spotty ch 2 Es until	1718 KORKt 3 NV 1050
2258 KORK 3 NV 1050	2100 apx f/out)	1725 XHBCt 3 BCN1010
2350 unids 2,3	19 tr 0728 KTEW 2 OK 485	(MUF 107.9 @ 1758)
	Es 0950 unid 2 n (cb tp)	1738 KTLAt 5 CA 1190
	1000 KOAI 2 AZ 855	1832 KSBy 6 CA 1355
	1029 KDLO 3 SD 1070	1909 KETV 6 BCN1100

Pat Dyer (continued)

June 1979

23 Es	1909 XHAQt 5 BCN1010	26 Es	0928 KWGN 2 CO 810	28 Es	2150 meteor activity
	2020 f/outs		0959 KMTV 3 NE 830	29 Es	0850 KqTV 2 MO 750
	2240-45 unids 2 w		KOTA 3 SD 1040		0900-1600 unids 2-5
24 Es	0655-0730 unids 2-6		1000 KUSD 2 SD 920		1159 CBWFT 3 MAN1410
	(MUF 94.9 @ 0757)		1029 KNOP 2 NE 815		1435 unid 2 s
	0825 WTVJt 4 FL 1150		1059 KTVS 3 CO 815		1740-1940 unids 2-6
	0845 WCIXt 6 FL 1150		(MUF 96.9 @ 1137)		(MUF 98.9 @ 1845)
	WPBt 2 FL 1150		1225 WTVJt 4 FL 1150		1759 WPBT 2 FL 1150
	(MUF 94.9 @ 0915)		WUFt 5 FL 970		1805 WTVJt 4 FL 1150
	0950 WESH 2 FL 1055		1229 WESH 2 FL 1055		1829 WBAY 2 WI 1190
	1035 f/outs		WPBT 2 FL 1150	30 Es	0310-1320 unids 2-6
	1105-1120 unid 2 s		1232 WCIXt 6 FL 1150		(MUF 88.5 @ 0918)
	1605-1930 unids 2-6		1233 WJXTt 4 FL 1015		0959 WSJK 2 TN 1010
	(MUF 107.1 @ 1737)		(MUF 89.9 @ 1235)		KUSD 2 SD 920
	1929 KNXT 2 CA 1190		1256 WBAY 2 WI 1190		1029 WEDU 3 FL 985
	1935 KOAI 2 AZ 855		1308 WCBdt 2 SC 1120		(MUF 89.3 @ 1032)
	1955 WCBdt 2 SC 1120		WSAVt 3 GA 1050		1059 WDTN 2 OH 1075
	2120 KORKt 3 NV 1050		1314 WEDUt 3 FL 985		1159 WBBM 2 IL 1045
	2205 f/outs		(MUF 107.9 @ 1345)		1355-1545 unids 2-5
25 Es	0830-1025 unids 2,3		1650 KLNbt 3 NE 785		1405 XHBC 3 BCN1010
	1029 WFMY 2 NC 1175		1659 KNOP 2 NE 815		1445 KNXTt 2 CA 1190
	CKCO 2 ON 1410		KOTA 3 SD 1040		KNBct 4 CA 1190
	1110 WMT 2 IA 945		1750 KORKt 3 NV 1050		KTLAt 5 CA 1190
	WBAY 2 WI 1190		KVVUt 5 NV 1040		1835-2030 unids 2,3 ne
	1129 KIMT 3 IA 985		(MUF 107.1 @ 1757)		2132 KOAI 2 AZ 855
	(MUF 89.3 @ 1142)		1828 KUAT 6 AZ 750		spotty unid 2,3
	1159 WDTN 2 OH 1075		1844 XETV 6 BCN1100		2345 unid 2 e
	1257 KTCA 2 MN 1110		1855 KVOAt 4 AZ 750		
	1400 f/outs		1858 XHI 2 SON 715		
	1825 KDKA 2 PA 1280		1915 XHBct 3 BCN1010		
	1830-2000 unids 2-6		1921 KqTV 2 MO 750		
	(MUF 106.5 @ 2041)		1950 f/outs		
	2110 WAVE 3 KY 945	27 Es	0625 KTVQ 2 MT 1245		
	2240 apx f/outs		0630 KTWot 2 WY 1015		
26 Es	0825 unids 2-4		0630 KWGN 2 CO 810		
	(MUF 88.7 @ 0858)		soon f/outs		
	0855 KEYTt 3 CA 1270	28 Es	0620-0805 unids 2-4		
	0857 KTWO 2 WY 1015		0658 WCBd 2 SC 1120		
	KNBct 4 CA 1190		0850-1030 unids 2,3		
	KTLAt 5 CA 1190		0959 WJBK 2 MI 1225		
	0859 KNXT 2 CA 1190		WESH 2 FL 1055		
	KID 3 ID 1215		1935-2000 unids 2 ne		
	KTCA 2 MN 1110		2058 KGNE 2 ND 1240		
			2150 unids 2,3		

July 1 MUF's: 0955-94.9, 1220-106.5, 1455-106.7, 2130-98.7

The June 11 opening @ 1359 had very sharp MUF's with often completely obliterated local 4 and 5 with no traces on 6, and later channel 2 video without audio.

A late June surge of Es activity, but on many days the MUF very "full" to ch 4,5 with so much CCI that ID's impossible.

Some trop in, often to the extent of making ch 4,5 CCI hard to tell if Es mixed in with it. So, with all that, no new loggings this time. Maybe better luck with the Perseids and my many missing ch 5's.

B.W. Battin, 4305 Pitt Street, Duluth, MN 55804

June 1979

1 Es	1133 KMOL 4 TX 1275	13 tr	2243 U's Sioux City	14 tr	1033 WEEK 25 IL 445
	1139 WBRZ 2 LA 1145		2247 KYNE 26 NE 430		1200 KCBJ 17 MO 545
	1200 KJAC 4 TX 1180		2251 KHIN 36 IA 435		1254 KBNL 30 MO 575
5 Es	1937 KCPX 4 UT 1080		KBIN 32 IA 430		1312 U's Chicago 405
	1941 KWGN 2 CO 820		2324 KSPY 13 SD 320		1459 KWWL 7 IA 300
6 tr	0158 WIFR 23 IL 350	14 tr	2340 V's Omaha 430	19 Es	1100 CKGN2 2 ON 715
	0200 Vs Milwaukee335		0145 KTVH 12 KS 680	22 Es	0117 WPAR 3 VA 1085
	0204 WREX 13 IL 350		0200 KAKE 10 KS 690	24 Es	2000 WFFY 4 AL 1160
	0240 WMAQ 5 IL 405		0900 KTSB 27 KS 570		2008 WFBC 4 NC 990
7 Es	1229 WCBS 2 NY 1000		0918 KHNE 29 NE 535	28 Es	2200 WUND 2 NC 1135
			0941 KBKA 41 MO 550	29 Es	1029 WSB 2 GA 1010
			1000 WHO 13 IA 370		1030 WHAB 2 MS 960
					1100 WCBI 4 MS 945

B.W. Battin (comments)

I have no idea whether those who claim the increased sunspot activity that means more #2 also means reduced Es are right, but this year's Es activity would seem to lend support to their argument. In a word: zilch! Each of the last few summers has shown a noticeable decline in Es over the previous year, this season being the worst yet.

Had a good tropo opening June 13-14, but otherwise tropo hasn't been much so far this summer. It should pick up shortly, as the season for that mode here tends to peak in the late summer and fall.

May distant signals overpower your locals -- which aren't useful for anything but watching programs anyway! Buck

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

CDT

June 1979

10 Es 2000 unid 2 s
 2223 WBRZ 2 LA 1185
 2230 KPRC 2 TX 1195
 12 Es 1858 unid 2
 2030 unid 2,3
 13 tr 2317 KSINT 27 IA
 2336 KMEG 14 IA 300
 2355 KHIN 36 IA 390
 14 tr 0006 KCAU 9 IA 300
 0900 (FM from NE/KS)
 Es 0900 KMID 2 TX 1060
 2213 unid 2 spanish
 15 Es 1213 KMID 2 TX 1060
 (MUF 94.3 @ 1313)
 1530 WMAB 2 MS 1015
 1540 XEPM 2 CH 1180
 1716 WKTW 2 NY 1095
 (MUF 105.1 @ 1731)
 17 Es 2129 unid 2 se
 18 Es 1923 unid 2 se
 (MUF 93.1 @ 2141)
 2213 KUTV 2 UT 880
 2232 KWGN 2 CO 650
 21 Es 2310 WMAB 2 MS 1015
 22 Es 0000 unid 2
 tr 0001 KESD 8 SD 175
 0002 KTSD 10 SD 240
 Es 0044 WNGE 2 TN 905
 0112 WMAR 2 MD 1135
 0119 KDKA 2 PA 945
 tr 0634 KSIN 27 IA 300

22 Es 1157 WBRZ 2 LA 1185
 1230 KPRC 2 TX 1195
 23 Es (MUF 107.9 to NM 1109)
 1130 KENW 3 NM 965
 1229 KPRC 2 TX 1195
 1335 KTXI 5 TX 955
 (MUF 106.3 @ 1343)
 1733 KTVN 2 NV 1255
 1757 KOAI 2 AZ 1120
 1800 KBCI 2 ID 960
 1833 KTVK 3 AZ 1230
 1859 KID 3 ID 805
 (MUF 105.1 @ 1922 ID)
 2000 (MUF 103.5 sp)
 24 Es 2028 unid 5
 2029 WMAR 2 MD 1135
 2059 WUND 2 NC 1295
 25 Es 2159 unid 2
 26 Es 1854 unid 2,3
 1942 KREM 2 WA 960
 28 Es (MUF 92.9 @ 2024 AZ)
 2036 WMAR 2 MD 1135
 (MUF 95.1 @ 2104)
 2130 WPSX 3 PA 990
 2219 KDKA 2 PA 945
 29 Es 0859 WPMY 2 NC 1149
 WCYB 5(TN) 1040
 0919 (MUF 100.5)
 0959 WMAB 2 MS 1015
 1029 WNGE 2 TN 905
 WSB 2 GA 1115
 1128 KMID 2 TX 1060

29 Es 1136 (MUF 94.5)
 1200 KXAS 5 TX 985
 KBTX 3 TX 1120
 1258 KPRC 2 TX 1195
 1331 KENW 3 NM 965
 1900 WAVE 3(IN) 810
 1930 WSB 2 GA 1115
 2000 WRCB 3 TN 1005
 2200 KETS 2 AR 890
 2209 KMID 2 TX 1060
 30 Es 0929 WBRZ 2 LA 1185
 0930 WRBL 3 GA 1190
 1030 KFSM 5 AR 795
 (MUF 104.5 @ 1035)
 1300 KMID 2 TX 1060

July 1979

2 Es 1905 unid 2 Canada
 4 tr 0930 KINT 3 IA
 0937 KYINT 24 IA
 5 Es 1900 unid 2 e
 tr 2000 KEME 3 ND
 6 Es 0905 unid 2 s
 tr 0929 KDLE 3 MN
 Es 1355 unid 2 s
 1629 WESH 2 FL 1475
 1733 KUTV 2 UT 880
 (MUF 94.1 @ 1800)
 7 Es 0955 KBTX 3 TX 1120



STATISTICS

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
Deadline: the 10th
of Sept.

August 1979

FM SCOREBOARD

Dxer, Location	Rank	Total	88-92	Es	MS	AU	USA	CN	MX	FO	TFU	YB	As of:
Bruce Elving, Duluth MN	1	1449	124	680	8	8	44+	3	1	0	49	48	8/25/78
Fat Dyer, San Antonio TX	2	1268	147	1035	19	0	41+	2	6	3	53	70	8/31/78
John Ebeling, Bloomington MN	3	1171	168	617	25	75	46+	4	3	0	54	52	11/22/78
Michael Dalton, Clearwater FL	4	1149	235	662	7	0	41+	2	12	12	68	72	8/20/78
Peter Sawatzky, Guelph ON	5	1039	146	477	108	5	38+	7	0	0	47	71	12/3/78
Fred Nordquist, Clay NY	6	1033	142	456	21	39	39+	4	0	2	46	69	7/15/79
Fred McCormack, Des Laos ND	7	937	119	705	21	71	44+	6	3	0	65	65	11/10/78
Mike Bugaj, Enfield CT	8	912	113	457	4	13	37+	3	0	1	42	74	8/30/78
Danny Buntin, Stillwater OK	9	903	105	518	0	0	44+	4	8	0	57	74	7/1/78
Joseph Fela, So, Plainfield NJ	10	824	165	377	2	9	37+	3	0	3	44	68	8/19/78
Roger Winsor, Hobart IN	11	774	-	-	-	-	-	-	-	-	-	-	6/1/79
Ralph Strobel, Muncie IN	12	762	181	55	4	5	28+	3	0	0	32	72	5/28/79
Hank Holbrook, Chevy Chase MD	13	717*	161	186	11	-	35+	4	0	3	43	59	11/13/78
R.E. Lyons, Belleaire Eluffs FL	14	704	200	420	2	0	-	-	-	-	-	75	8/1/78
Richard Steinberger, Hudson MA	15	532	103	233	9	6	33+	2	0	0	36	-	7/7/79
Doug Everitt, Enid OK	16	512	30	299	16	0	32+	4	6	0	43	74	3/17/79
Jim Pizzi, Orcutt CA	17	496	62	271	3	0	19	2	3	0	24	72	8/25/78
Joseph Smith, Johnson City NY	18	472	61	71	0	0	24+	1	0	1	27	71	3/27/79
Robert Swinski, St. Clairsville OH	19	437	58	70	1	0	27+	2	0	1	31	77	11/25/78
Vernon Eaton, Benton AR	20	363	38	1	-	-	-	-	-	-	-	77	1/6/79
John M. Jefferson, Concord CA	21	351	68	121	53	0	20	2	2	0	24	57	8/18/78
Fred McCormack, Fargo ND	22	275	40	130	0	38	37	3	0	0	40	74	11/19/78
John Ebeling, Prosid MN	23	267	34	77	1	0	31+	4	0	0	36	75	11/1/78
Michael Hogan, Highland IN	24	239	52	17	0	0	13	1	0	0	19	76	2/22/79
Michael Scheel, Walcott IA	25	232	25	10	0	0	17	1	0	0	18	71	11/18/78
Eric Fader, Bayside NY	26	208	44	3	0	0	11+	1	0	0	13	74	8/22/78
Frank Wheeler, Erie PA	27	136	16	0	0	0	5	1	0	0	6	64	6/19/78
Dave Hascall, Fortville IN	28	99	19	5	1	0	10	0	0	0	10	76	6/9/79
Paul Mount, Nelsonville OH	29	94	3	3	0	0	5	1	0	0	6	78	5/6/79

*Verified.

Now is the time for you to send in your updated FM statistics, now that the 1979 Es is past its peak. Column definitions are in the March 1979 VUD. 73, Fred

93 MHZ DISTANCE RECORDS

FREQ	PROP	CALL	LOCATION	MILES	Dxer, Location
93.1	Es	WPAT	NJ Paterson	1435	Fred McCormack, Des Laos ND
	Tr	WDDS	NY Syracuse	820	Bruce Elving, Adolph MN
	MS	KBHB	SD Sturgis	1175	Richard Wood, Baton Rouge LA
	Au	WDRQ	MI Detroit	540	John Ebeling, Bloomington MN
93.2	Es	XHQQ	NL Monterrey	1375	Russ Brown, St. Joseph MI
	Tr	XHQQ	NL Monterrey	265	Glenn Hauser, Von Ormy TX
93.3	Es	KTEN	OK Ada	1435	Richard Steinberger, Hudson MA
	Tr	WFLA	FL Tampa	995	Glenn Hauser, Von Ormy TX
	MS	KYKR	TX Port Arthur	1195	Peter Sawatzky, Waterloo ON
	Au	WBEW	OH Youngstown	680	John Ebeling, Bloomington MN
93.5	Es	WCPA	PA Clearfield	1385	Glenn Hauser, Von Ormy TX
	Tr	WPPL	MI Hancock	610	Fred McCormack, Des Laos ND
	MS	WBJT	MS Clinton	940	Peter Sawatzky, Waterloo ON
	Au	WLIH	WI New London	340	Andy Bolin, Charleston IL
93.7	Es	WJIT	PR San Juan	2275	Robert Cooper, Oklahoma City OK
	Tr	KBNO	TX Houston	1090	Carlton Howington, Uniontown OH
	MS	WCCM	MA Lawrence	1475	Robert Cooper, Oklahoma City OK
	Au	KWYR	SD Winner	655	Andy Bolin, Charleston IL
93.9	Es	KPCL	CA Los Angeles	2145	Michael Dalton, Clearwater FL
	Tr	WBUS	FL Miami Beach	1155	Glenn Hauser, Von Ormy TX
	MS	WBAG	NC Burlington	1005	Robert Cooper, Oklahoma City OK
	Au	KKLS	SD Rapid City	830	Andy Bolin, Charleston IL

Memorabilia

August 1979

Robert J. Williams
312 Shoshone St. E.
Apt. B-8
Twin Falls, Idaho 83301
Deadline: 5th of month

"FM QSLs THIS MONTH"

This month, MEMORABILIA presents a couple of memorable old QSL cards of FM stations, courtesy of DXer Gary L. Mullis of Baltimore MD. Thank you very much, Gary!

WPBS
The Philadelphia Bulletin Station
440 DOMINGO LANE, PHILADELPHIA 28, WYRIDGE 37200

Lynn Gary
8041 North Boundary Road
Baltimore, Maryland 21222

Confirming reception of WPBS,
98.9 FM, Philadelphia.

E. J. Meehan
E. J. Meehan
Vice President & General Manager

B-12

WPBS-FM 98.9 MHz
Philadelphia PA
now WUSL

ENGINEERING DEPARTMENT

WLBR

LEBANON, PA.

AM

1270 KC.

5000 Watts—Day

1000 Watts—Night

Directional Antenna

4 Towers Day Pattern

2 Towers Night Pattern

FM

100.1 MC.

3000 ~~750~~ Watts E.R.P.

Thank You for the
Reception Report

Bill Zahring, C. E.

WLBR-FM 100.1 MHz
Lebanon PA now WUPM



BOUNDARY ROAD
MD.

21222

I (your editor) have moved into an apartment (see new address at top of page). See y'all in 30. Best of DX to all.

73s, gud DX, *Bob*



**TOUGH
TO BEAT!**

WORLDWIDE TV-FM DX ASSOCIATION

Post Office Box 202 Whiting, Indiana 46394 U.S.A.

Established 1967

SERVING THE VHF-UHF DX ENTHUSIAST



DUES: U.S. and CANADA, \$13 (via first class); overseas, \$18 (via air mail)

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