

AUGUST 1977

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

IN THIS ISSUE:

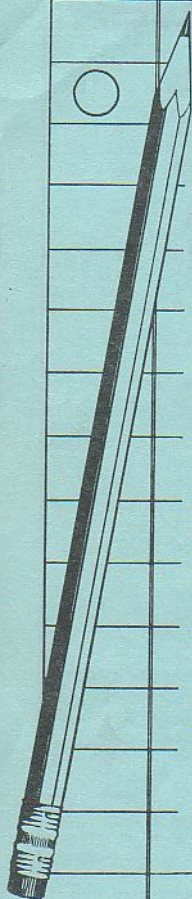
- Member Survey Results
- Exploring the 'Rhombic'
- Another FM Bootlegger
- The TV-DXing Logbook
- 2-Hop Skip to Alaska!



More About Meteor Scatter

From The Staff :

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



ANARC CONVENTION REPORT...More than 70 DXers were present in Schaumburg IL over the weekend of July 15-17 for this year's gathering of the Association of North American Radio Clubs. WTFDA's Saturday afternoon presentation on "How to Prepare a DX Club Magazine" was "one of the highlights of the program," according to host Jeff White of WINDX! We were proud to be the only ANARC club with its entire Board of Directors in attendance. In addition to the combined WTFDA presentation, this writer (Clarke Ingram) spoke briefly on "The Non-IDers," Board member Mike Hogan discussed "The Psychology of DXing," and 1973 ANARC Man of the Year Dr. Bruce Elving gave an unscheduled talk on FM-SCA along the lines of his VUD articles! Awards went to WTFDAer Glenn Hauser, selected by delegates as "North American DXer of the Year," and to Clayton Howard of HCJB, voted "International DXer of the Year," who received a standing ovation in accepting the award. More than \$200 was collected for the Handicapped Aid Program in an outstanding auction conducted by Kevin Mikell of WINDX. A grand time was had by most everyone, and thanks go to host club WINDX, ANARC Executive Secretary Dave Browne, and a host of speakers from member clubs for a very successful ANARC gathering this year!

MEANWHILE IN OREGON...as this issue goes to press, WTFDA's own 1977 Convention is drawing to a close in Portland. Early reports indicate attendance of from 30 to 35 members and a successful schedule of presentations; watch for full details and photos in next month's Digest! No WTFDA Board members could attend due to the distance, time and expense, but John Zondlo was able to conduct the club business meeting by telephone from Indiana. Hosts Frank Aden, Bill Block, Pat Martin and Paul and Dave Wardell deserve many thanks for conducting the first in what will hopefully be many Western conventions to come in our organization!

NOTES OF NOTE...Dave Janowiak's POLARIZATION series is slated to return in October; your editor currently has no time to transcribe the convention tape...Remember that all info on TV in North America and worldwide should be sent to editor Dave Pomeroy, and similar FM data to Bruce Elving. Please report!

73, *Clarke* for Pete, John, Mike, and Morrie

TABLE OF CONTENTS

FEEDBACK: Member Survey Results--At Last!.....	3
MAILBOX: New Mailing Keeps Membership Moving.....	14
FCC FM NEWS: Extra-Legal "89Q" Heard in Pittsburgh.....	16
TECHNI-CORNER: How Metallic Supports Affect Antennas.....	19
NORTHERN FM DX: McCormack Snags 2Es to Florida.....	20
SOUTHERN FM DX: "It Does Pay to Save DX Tapes!".....	26
THE TV DX LOG: How To Organize Your Station Catches.....	32
PHOTO-NEWS: Steve West's Antennas Are "Up a Tree".....	33
BOB'S TEK-NOTES: More About Meteor Scatter.....	34
EASTERN TV DX: Are You DXing in Northern Ontario?.....	36
WESTERN TV DX: Incredible Double-Hop Skip to Alaska!.....	43
THE RHOMBIC: One of the World's Largest Antennas.....	50
MEMORABILIA: A Rare Photo of the "Flying Classroom".....	53
CCI (UNIDENTIFIED DX): "TV Guide Does It Again!".....	54
QSL CORNER: Ken Simon Verifies Florida FM Translator.....	56
ASIAN-AFRICAN FM CHANGES: Mike Dorner Delves into WRTVH...	57
VHF UTILITY DX: French Beacon Reaches North America!.....	59

FEEDBACK

WTFDA MEMBER SURVEY RESULTS

compiled by Clarke Ingram

One of the most effective ways for a new DX club administration to determine general opinions of their work and magazine is by a direct membership survey. This is usually more accurate than noting, for example, responses in a club's "Letters to the Editor" column--the usual function of this FEEDBACK section--because comments therein tend to be negative. (Let's face it: there are few who write to any responsive organization, praising it for a fine job--witness the US broadcasting industry!) Thus, it was in the interest of finding the true member opinion on WTFDA efforts and the VHF-UHF Digest that the new club "crew" one year ago decided to include postpaid questionnaire cards with the July, 1976 VUD.

The response was such that few of us on the Board of Directors could have anticipated it. In brief, WTFDA members rated Digest columns, on the average, 20 points higher than a figure established as "average"; many could find no major weakness in the club or its magazine, even though the question had been specifically asked; and not a single member thought the VUD worse than other DX magazines, nor the work of the current editor-in-chief and publishers to be inferior to that of previous staffs!

Now, the Board's major complaint regarding the survey: Of the 280 cards we included with individual VUDs (our membership has since jumped to over 320), only 121 were returned--a 43.2% turnout, by my calculation. As the person to whom the questionnaires were addressed (and who had to compile the results!), I'd like to thank these WTFDAers for showing interest in their Association. As for the 159 who did not respond, I find it rather difficult to contain my disappointment. Collectively, you have wasted \$14.31 in club funds by not mailing the postpaid questionnaires; and I am personally disgusted that as "members," you failed to take five minutes to express your opinions. Still, I don't feel that mandatory member participation is the answer to apathy. If you choose to be "subscribers" to WTFDA instead of active contributors, that is your privilege--but that choice benefits no one, including yourselves.

We were pleased, however, to note that only 19 (15.7%) of the 121 cards were submitted anonymously, with that option provided (these being mostly late arrivals who might not have contributed had we not "prodded" them in the VUD for the past year!) Your trust in us is appreciated, and we'll maintain that trust by not divulging names in this report--except in the case of some very positive comments about our club and magazine!

All percentages herein, unless otherwise indicated, pertain to the total of 121 questionnaire cards received. These percentages total to more than 100% in some cases, because a DXer's interests, club memberships, etc. may overlap.

Members were asked to provide their age and the number of years they have been in WTFDA. The results show the "average" WTFDAer to be 30.3 years old (which, notably, is a much higher figure than some other DX clubs!), with 3.9 years in our organization. 23 members (19.0% of the 121 responding) indicated membership in WTFDA for 7 years or more; as our club was but 8½ years old when the survey was conducted, we're flattered to have so many first- and second-year members still with us! (WTFDA is now approaching its Tenth Anniversary--and our January, 1978 issue will be one you'll never forget!)

VHF-UHF DX interests of the 121 participants broke down into these categories:
Television - 97 members (80.2%) for an average of 9.5 years
FM Radio - 79 members (65.3%) for an average of 7.0 years
V-U Radio - 26 members (21.5%) for an average of 8.9 years
41 members indicated they'd been TV DXing for 10 years or more, and 19 for 20 years or more (undoubtedly the nucleus of AIPA members that formed the early WTFDA!). 20 indicated they'd pursued FM DX for 10 years or more, but only 5 had been active for 20+ years. VHF-UHF radio, being a relative newcomer, had 6 DXers active for 10 years or more, and 4 for 20 years or more. One member indicated no DX interest in the VHF-UHF bands.

Association members also indicated interest in BCB (AM) DX (75 replies, 62.0%), shortwave DX (53 replies, 43.8%), and amateur radio (28 replies, 23.1%). "Miscellaneous" interests--longwave, microwave, CB, FM-SCA, STL and LF/VLF DXing--comprised another 20 answers (16.5%). 17 members (14.0%) listed no interests outside VHF-UHF, or did not reply.

Asked for their membership status in other clubs of the Association of North American Radio Clubs (ANARC), the 121 WTFDAers provided the figures below. The specialization of each club is listed after its name.

NRC (BCB)	30 (24.8%)	ASWLC (shortwave)	5 (4.1%)
IRCA (BCB)	22 (18.2%)	CIDX (all bands)	4 (3.3%)
NASWA (shortwave)	15 (12.4%)	RADIO USA (all; now defunct)	1 (0.8%)
SPEEDX (shortwave, UTE)	9 (7.4%)	No other clubs/no answer	72 (59.5%)

55 members (45.5%) noted that they had joined another club before joining ours; 59 members (48.8%) said they had not. 7 members of the 121 (5.8%) failed to reply. Prior club memberships mentioned by 2 or more respondents are below.

IRCA	28 (23.1%)	NASWA	10 (8.3%)	SPEEDX	4 (3.3%)
NRC	26 (21.5%)	ATPA	6 (5.0%)	ASWLC	2 (1.7%)
NNRC	14 (11.6%)	CIDX	5 (4.1%)	CDXC	2 (1.7%)

COLUMN RATINGS: Members were given a list of 23 columns which had appeared in the VHF-UHF Digest between January 1975 and July 1976, complete with data on editors and scheduled column appearances vs. actual appearances. They were asked to assign each column a numerical score between 0 and 100, assuming 50 to be "average," based on these criteria:

1. Editorial technique and general appearance of the column, regardless of actual content;
2. Regular appearance of the column on its monthly or bi-monthly schedule;
3. General interest or value of the information presented in the column.

Digest columns finishing with better than a 70 rating are listed below; names of editors are provided in parentheses. Not surprisingly, the column which an overwhelming majority of members feel is by far the finest in our magazine ran away with the top spot:

- | | |
|---------------------------------------|---------------------------------------|
| 1. FCC FM NEWS (Elving).....83.69 | 7. DX SCOREBOARD (Ingram).....74.01 |
| 2. BOB'S TEK-NOTES (Cooper).....78.27 | 8. CENTRAL TV-DX (Draeb).....74.00 |
| 3. MAILBOX (Zondlo).....78.22 | 9. FCC TV NEWS (Pomeroy).....72.30 |
| 4. PHOTO-NEWS (Alexander).....77.46 | 10. WESTERN FM-DX (Wiseblood)...71.39 |
| 5. EASTERN TV-DX (Thompson).....75.72 | 11. CANADIAN NEWS (ML & JJR)....70.98 |
| 6. WESTERN TV-DX (Smith).....74.60 | 12. STATISTICS (Hauser).....70.39 |

Though we had to split ratings down to hundredths-of-a-point to obtain number rankings, over such a large scale (0 to 100) such minor differences mean very little. In fact, from a statistical standpoint, one could almost state that columns 2 through 8 were deadlocked. Still, these ratings provide indication of column popularity, however minute the margin separating any two of them.

A number of column and editorial changes have occurred in the Digest since the survey was distributed a year ago. The number of columns appearing in the VUD has been decreased from 23 to 16; of the above twelve, DX SCOREBOARD, CENTRAL TV-DX, WESTERN FM-DX, and CANADIAN NEWS have been merged into other columns and no longer exist as separate entities. Andy Bolin now handles the FM side of STATISTICS; the TV records remain unattached. Similarly, WESTERN TV-DX is under new editorship: that of Doug Everitt. Other changes and deletions took place among the 11 columns not listed above, but we will not list those here.

The high ranking of BOB'S TEK-NOTES--a column which had appeared only 2 times in 18 months, and then only as reprints of past articles which didn't involve Bob Cooper directly--shows member demand for technical articles perhaps even better than the lack of these being cited as one of WTFDA's major weaknesses (see later in this report). The many comments received by your editor and at HQ prompted us to adopt the "10% Rule"--a new club policy which requires at least 10 percent technical content in each VUD. We've also made past Digest technical articles available through the Reprint Service. Incidentally, Dave Janowiak's TECHNI-CORNER was not rated--because at the time of the survey, it had not appeared in the VUD since 1974.

Somewhat baffling is the high ranking of the DX SCOREBOARD column, a spinoff from STATISTICS which your editor handled from its creation in September 1974 to its return to its parent column in February 1976. The information therein may have been interesting, but I can't conceive of the column imparting such valuable information to the DX world to deserve ranking seventh! Whatever the reasoning behind member opinion of this column, I very much appreciate your vote of confidence.

Digest column editors can well be proud of their efforts, for not one column fell below the 50 mark designating the "average" column. As listed earlier, 12 columns managed better than a 70 rating, and only one column was below 60 (that column--which finished dead last and whose name we will not divulge--received a 59.16 rating). Thus, even the "worst" columns are above average! The average rating of all 23 columns is calculated to be 70.14--meaning that overall, Digest columns rank 20 points above what WTFDAers consider average! The HQ staff and I are impressed by this praise from the membership, and are pleased that our editors do such an outstanding job in your eyes.

PRESENT VS. PAST: In the next section of the questionnaire, we asked WTFDAers to compare the VUD to other DX magazines, this writer's (Clarke Ingram's) VUD work to that of previous editors-in-chief, and the efforts of the new publishing crew to those of the old staff. These comparisons were intended to give us a means to evaluate our work in relation to that of the previous directors, and to take necessary action if our efforts were ranked below the old staff's (which, because of club loyalties, was expected by your editor and which did not occur, as will be seen shortly).

Unfortunately, a number of respondents interpreted the purpose of these questions as being something entirely other than what we had intended. Comments from one WTFDAer read as follows:

I am not answering the comparative portions of your questionnaire card because I think they are somewhat self-serving. I know your intent is good, and I really think you are doing an outstanding job, and as far as I am concerned, the publication is better. However, you are asking for a comparison between the work under your regime and that of people who are still in the organization, as far as I know, and I think this sort of thing serves no purpose. There may very well be some political stuff going on, but I haven't sensed it (neither have I --CWI) and I see no reason to compare your voluntary work with the voluntary work of others before you. I don't know Morrie Goldman or Gary Olson but, since the price was right, see no reason to say that their work was inferior to yours. It may very well be possible that Morrie and Gary were hated, and did a miserable job; you might very well be the savior of WTFDA. (Obviously, neither is true --CWI) I think even if this is possible that a less condemning approach of the past voluntary editors might be more tactful. If there are factions within the club, this just might not be the proper way to unify them. (If there are factions within the club, I have yet to hear about it --CWI)

So, please don't get me wrong. I have seen the publication improve since I have been in WTFDA. However, I don't always read all the articles, and frankly, have not associated the publication with any one individual until your regime. That in itself should say something for the active way you have gone about things.

The last issue (July 1976 --CWI) was excellent. Keep up the good work, and please try to understand my feelings on this.

Similar comments on this matter were received by your editor. These misinterpretations notwithstanding, it is interesting to note that those who preceded us as editor and publishers (Morrie, Gary, and Don Ruland, among others) did not seem offended by our posing these questions--perhaps because they knew our reason for asking, and understood the improvements we would attempt regardless of the survey results. To be sure, all of us are working in the best interests of WTFDA. Denouncing those who preceded us would indeed serve no purpose.

Members were asked to reply to each of the questions asked--comparing editors, publishers, and magazines--with the phrases "much better," "better," "about

the same," "worse," or "much worse." Unfortunately, a number of respondents ignored or overlooked this direction, using terms such as "superior," "good," "outstanding," etc. as answers. We have tried to be objective in our interpretation of where such answers should fall in the established categories, the tabulations of which are listed below. Noncommittal answers given, such as "interesting" or "different," have been omitted.

Clarke Ingram's work vs. that of previous editors	New publishers' efforts vs. that of old staff	VHF-UHF Digest vs. other DX magazines
MUCH BETTER 28	MUCH BETTER 19	MUCH BETTER 49
BETTER 56	BETTER 58	BETTER 26
ABOUT THE SAME 13	ABOUT THE SAME 21	ABOUT THE SAME 19
WORSE 0	WORSE 0	WORSE 0
MUCH WORSE 0	MUCH WORSE 0	MUCH WORSE 0
No reply 24	No reply 23	No reply 27

The results speak for themselves...we are all very flattered by your replies!

CLUB WEAKNESSES: Members were asked what they felt to be the major weakness of WTFDA, the VHF-UHF Digest, or both. The majority of answers were easily separated into definite categories. Many members stated they could not find any weakness, for which we are grateful; but a DX club cannot improve unless it knows its own faults!

The weakness most often cited by WTFDAers in response to the question above was a lack of technical articles in the Digest--another reason for our instituting the previously mentioned "10% Rule." In recent months, this void has been largely filled. Product reviews, construction projects, DX techniques, and propagation features were the types of articles most mentioned by WTFDA members as useful technical material. Another very frequent answer to this question was lack of member participation (apathy). Among the suggestions made to improve this situation were: clarification of reporting areas and column editors; explanation (if not elimination) of abbreviations; reduction of the number of columns/editors in the Digest; and projects and DX contests to involve more WTFDAers. In the year since this survey was taken, we have tried to improve these aspects of the Digest, with only the last item being voted down by the Board of Directors recently. Your comments (some of which are printed further on in this report) are always appreciated.

A common answer, though less frequent than the above two, was late issues of the Digest, a problem which has eased greatly since the new WTFDA staff has taken office, but which recurs from time to time as it does in virtually all volunteer operations. About this situation, one member wrote:

I've commented to John Zondlo in the past about turnaround time and he's explained the reason it is as it is. While it may be impossible to improve the situation without other unwanted steps, I think many members would be willing to pay an extra couple of dollars a year (bringing the dues to the same as NASWA) in order to find methods that would assure a bulletin for one month before the deadline for the next. I sincerely feel this is by far the most important change that could be made, and I hope it will be discussed very thoroughly...

To help reduce turnaround time would probably require a combination of changes including everything from the individual editors' deadlines to the method of mailing, but it shouldn't be impossible to at least make it possible for every member to have the bulletin in time to react before the deadline for the following issue.

Increasing WTFDA dues at this time (especially when our club is in the best financial condition in its history, even more so than in fall 1976) would be senseless; lack of funds does not delay VUD issues, nor would additional dues provide methods for preventing this. Neither can mailing methods be blamed; one can seal and label VUD issues only so rapidly, and the US Postal Service is a factor over which we have little control, even using first-class mail. Column deadlines were a contributing factor until late in 1976; now that editors fully understand what is expected of them and when VUD columns are to arrive at your editor's address, this has become much less of a problem.

So why, then, is the Digest sometimes late? Unfortunately, most of the blame lies with your editor. As a full-time college student, with what amounts to a full-time job at the college radio station (which post I recently resigned), I haven't always had the time to devote to WTFDA work when needed. Further, I am compelled to edit the VUD as a professional magazine (a quality which most all other DX "bulletins" lack), and have sometimes held back an issue when an article, column, or cover did not meet these professional standards. As most of you are aware, I am not one prone to stick a coverage map on the VUD cover. All Digest front covers during my editorship, with the exception of July 1976, were personally designed and prepared by this writer--something that no other DX club anywhere can claim! Also, all technical articles (and virtually all features in the VUD) are retyped and, if possible, updated and revised or re-written by your editor. Occasionally, an editor will not meet spec with his column, and some reworking or a total overhaul will be necessary. Such things take time, and I admit I've always felt that delaying the issue a few days to correct the situation is better than leaving half-filled pages or poorly done features in the finished product.

On the publishing side, the situation is more consistent, probably because there are three workers in Indiana to the one here in Pittsburgh! Rarely, as in April, the finished product will be late because of delays in publishing. Sometimes there will be difficulty in "shooting" the VUD paste-up (photoing the pages for photo-offset plates), and Pete Oprisko will be obliged to visit our printer and trouble-shoot the problem. If, in the issue, there are photos to be "screened," this delays the Digest two days on top of any other problems. Usually, however, the printing job is done in about a week, from which it goes to John Zondlo and Mike Hogan for stamping, sealing, addressing, and mailing of the individual copies of the Digest. Of the 19 issues we've produced to date, only on a few occasions have we failed to deliver VUDs before the 20th (the traditional break point for "late" issues), despite many complications.

There are always unexpected problems--such as VUD deadlines coinciding with your editor's final examinations two semesters running, the seemingly endless deadlock in convention balloting in February, and the transit strike which crippled Pittsburgh in December, preventing your editor from attending class (let alone reaching downtown to pick up supplies for VUD work). As there have been (and may yet be) occasions on which deadline and quality must compete, I welcome your opinions on professionalism vs. strictly on-time issues. As I've noted, given a choice, I prefer not to sacrifice professional quality for time. It would be easy to deliver a small, unattractive product to your mailbox on time every month, but I like to think the majority opinion is reflected by WESTERN TV DX editor Doug Everitt, who writes:

When the VUD comes out looking as nice as the May issue, it's worth the wait. It's work like that which makes me proud to be a part of the WTFDA Editorial Team, and grateful to have such a professional Editor-in-Chief at the helm!

Along with your exams, I suppose the Transit problems have been bogging you down. Considering all your troubles, it's amazing you can even keep VUD going. (Not amazing, Doug, just slightly phenomenal, hi --CWI) Specifically, your recent cover arrangements have been more professional than any other DX publication I've seen. I have a feeling that this new professionalism, combined with all the publicity we seem to be getting, will boost membership far beyond the old record within the next few years. (Provided my successor has the same standards; I don't plan to be editor forever --CWI)

I'm surprised to hear about the (late issue) complaints...irregular, unprofessional VUDs would be easy to turn out in a day or two; it seems to me they ought to be appreciating the professionalism you've brought us...if they expect better, let the club hire somebody, and that's rather unlikely.

Just how dedicated is the WTFDA crew to their product? Suffice it to say that during one of the early panel discussions at the ANARC Convention (sorry, Jeff White!), this writer, John Zondlo, Mike Hogan, and WTFDAer John Winslow of Madison WI were in one corner of the meeting room, furiously stamping, stuffing and sealing copies of the July VUD for mailing. Consequently, the issues were mailed that afternoon, and were received at most locations by the 20th deadline. Meanwhile, publisher Pete Oprisko was back in Indiana, organizing the paste-up

and preparing for WTFDA's talk on "Editing and Publishing a DX Club Magazine", which convention host Jeff White of WINDX called "the highlight of the convention" and which has already garnered us several new members. That the interesting ANARC presentations would be sacrificed that morning for WTFDA work is, I think, typical of the attitude and dedication of the Board of Directors.

This writer and the folks at HQ are currently doing everything possible to see that the VUD is delivered on time (your editor is working overtime right now to make sure this issue is early enough), and we'll continue to work on the problem. Any comments or suggestions you might have regarding late VUDs are welcomed. Unfortunately, most of the ideas received through the member survey (increasing dues, for example, or hiring paid workers to produce the Digest) will not work or simply aren't practical.

Moving back to the survey results themselves, other club "weaknesses" cited by WTFDAers were irregular columns (primarily in terms of monthly appearance; we have since corrected this problem), too-large DX reports (which has also been remedied; compare this year's issues to 1976), and small print in the Digest (sorry, but you'll still have to bring out the magnifying glass to read Bruce Elving's FCC FM NEWS, hi!). Several members noted the poor photo reproduction in the VUD; we've had past problems in getting pictures "screened" well, and this difficulty now seems solved.

Other WTFDA weak points individually cited (no duplication of these answers):

"Club only is composed of a small fraction of active TV and FM DXers, gets almost no publicity among some of the most avid TV DXers: the VHF and UHF amateur radio operators." (Interestingly enough, not too long ago a sample mailing was undertaken to 50 or so "hams"; the results have not yet been tabulated --CWI)

"Lack of a column similar to NRC's 'Musings.'" (John Zondlo's MAILBOX column is supposed to serve this purpose; general remarks on just about anything can always be sent there. Comments on important club issues are welcomed in FEEDBACK --CWI)

"Occasional bickering in VUD (very non-professional) although this problem is not prevalent today." (True; controversy serves no purpose, though debate and discussion--even heated at times, perhaps--is welcomed in FEEDBACK and elsewhere in VUD --CWI)

"The club appears to be dominated by a small clique of northern DXers." (Come, now. Perhaps I shouldn't have dignified this charge by placing it in print --CWI)

"Gearing of articles too much to experienced, veteran DXers rather than novices." (Yet another member accused us of catering to the beginner and asked for more involved technical features! I suppose one can't please everyone at once. We try to maintain a balance of "beginner" and "advanced" articles in the Digest --CWI)

"Lack of original incentive on the part of previous editors and contributors." (This member also notes that "the new publishing staff and editor apparently have renewed that original incentive." Many thanks for your kind words! --CWI)

One member claims WTFDA's main weakness is "a fixed board of directors and fighting for publisher" (?? The Board was changed only last year when the new crew took over, and there was no "fighting" for the publishing job; in fact, HQ had a difficult time finding someone for the spot!) This member suggests that "every so often--2 years?--a vote of 'yes' or 'no' to keep the board of directors should be taken. If vote is 'yes,' then another vote to decide which office, and then candidates and voting."

There were no questions about club government on the survey, but since this point has been raised, I'd like to discuss it briefly. WTFDA does not have a club constitution at present, and Mike Hogan is currently beginning work on one, so the question is made all the more important. Traditionally in our club, the Board of Directors has been composed of the editor-in-chief, publisher(s), and founders of WTFDA; time and again, members have supported the idea that "the people that do the work should make the decisions," fed by as much member input as possible, of course. The five Board members are

equal in power (at one point Ferdinand Dombrowski was the "President" of WTFDA, but this appears to have been a self-appointed title!), and each Board member has one vote in deciding club matters, with the majority ruling. This structure avoids politics, and does not draw egomaniacs or power-mad persons, for which all of us are very grateful; it has helped to keep WTFDA alive through crises which might have otherwise caused it to fold.

Now the suggestion has again been made that elections be conducted for WTFDA "officers." For the record, as shown on the back cover, the current Board of Directors consists of Clarke Ingram (editor-in-chief), Peter Oprisko (Digest publisher), John Zondlo (circulation manager), Mike Hogan (distribution manager), and Morrie Goldman (WTFDA's founder). These five (along with Bruce Elving and Gary Olson, who chose not to be on the new Board when appointments were revised last August) comprise all those currently doing administrative or other such work for WTFDA, with the exception of Digest column editors. Is there anyone who disagrees with this arrangement, or would deny any of the above members a position on the Board given that choice? Does any WTFDAer feel that better results would accrue if elections were to be held for the Board posts, and candidates selected regardless of who performs the editorial and publishing duties? I feel it is important that members express their opinions on this matter, because we wish to draw up our new Constitution in the best interests of WTFDA's membership.

From a personal standpoint, I feel that anyone willing to spend as much as two weeks per month ignoring virtually everything in order to prepare our magazine is definitely entitled to a voice in WTFDA matters. For example, I would be considerably bothered if my Board position were removed from me while still editor-in-chief of the Digest. But should the majority of WTFDAers feel differently, I am open to their views, whatever they might be. Comments received here on this issue will be printed in later editions of FEEDBACK.

Apologies for not having room here to print all comments received with regard to club weaknesses. This report has run far too long already!

IMPROVING OUR CLUB: As a sort of corollary question to the above inquiry as to WTFDA's weak points, members were asked how our DX organization could better serve VHF-UHF DXers. Since this, in many members' opinion, was correcting the problem stated as a club "weakness," there was much duplication; as might have been expected, the most frequent answers were including more technical articles in the Digest, increasing member participation and decreasing the number of late issues of the VUD. In recent months, we feel that much progress has been made in all three areas--most dramatically in the realm of technical material, where our new "10% Rule" has all but eliminated that void.

How do individual members feel WTFDA can better serve VHF-UHF DXers? By.....

"...being less like a computer record of who got what, and being more readable. It's improved a great deal, but in many respects it's still a brag sheet." (Which is something we're changing; our view has always been that we publish a DX magazine, not a "bulletin" --CWI)

"...cutting expenses--club dues getting too high each year, or so it seems. Go back to third class postage--I still get VUD late anyway." (WTFDA dues haven't increased since 1975, and are the lowest of any ANARC club publishing an offset magazine; as for late issues, the USPS is somewhat less predictable than the WTFDA crew... --CWI)

"...publishing a comprehensive intro for newcomers. It could lower the dropout rate." (This is a long-term project we've had in mind for some time; volunteers are welcomed! Meanwhile, a revision of Beyond Shortwave, probably to be retitled, may be in the wings; the current supply is about exhausted --CWI)

"...having two conventions a year: one in the East and one in the West." (This idea was considered during the almost hopelessly deadlocked convention voting this year, but was discarded; two conventions promote separatism, not club unity --CWI)

"...utilizing paragraph summaries of DX rather than pure dull lists of loggings." (We'll tackle the DX report format question a little later on in this report, with other comments --CWI)

More answers to the question "How can WTFDA better serve its members?" By...

"...promoting regional get-togethers in addition to conventions." (We'll be glad to do so in the Digest, but we first need the information; DXers and regional DX clubs sponsoring gatherings are invited to send details of their "get-together" to your editor for use in the VUD! --CWI)

"...coming out with FM and TV stations' addresses like NRC Log." (Probably a worthwhile project, but a time-consuming one, and QSLing seems not as paramount here as in BCB DXing and SWLing. Comments? --CWI)

"...keeping TV DX and News together in one section of the book and FM DX and News in another section. This would make it easier to read and would be better organized." (We have generally kept the two FCC NEWS columns together near the front of the magazine, and the two TV and two FM DX columns together in separate sections of the Digest. The TABLE OF CONTENTS eliminates much of the confusion as to which columns are where --CWI)

"...(having) an annual or semi-annual question-and-answer column by editors and readers on the merit of products...and any technical questions." (Q&A columns are difficult for us to start because there seem so few technically qualified WTFDAers willing to contribute their time to answer member questions in the VUD. Would any of you like to dispel this myth? --CWI)

Other suggestions for better WTFDA service were: club equipment discounts, in which one member suggested we might form an agreement with CATV manufacturers for purchasing; a discount price for Winegard's AC-4990 UHF preamp already has been arranged by WTFDAer Larry Vogt and will be announced next month. Two proposed columns, a "letters to the editor" section and a "DX gear for sale or trade" column, have already been created; they are FEEDBACK and STATION BREAK, respectively. Several members suggested two Digests per month in the summer, something which is currently being very seriously considered by the Board! Another frequent requests was for article reprints from mimeo VUDs, but it has been decided to update these features for use in upcoming issues and include the revised articles in the Reprint Service, as the mimeo copies are of rather poor quality for Xeroxing. Long-time WTFDA members can thus expect to see some "classic" series of past years reappear in the Digest! One other suggestion which we'd like to see fulfilled is selling ad space in the Digest to increase club revenues. As you're probably aware, Handler Enterprises bought ad space in our June issue (in truth, it was an 8 $\frac{1}{2}$ " x 11" center insert), and we're encouraging other companies to follow suit. The more members we have, of course, the larger VUD circulation will be, and the more advertisers will be interested!

There you have some of the many member suggestions on how to improve WTFDA, and our apologies again for not having the space to print every one received. All have been considered, and all are very much welcomed and appreciated!

COMMENTS ON THE NEW VUD: We've meant for some time to print remarks received here with regard to what we like to call the "new and improved" VHF-UHF DIGEST. Since its inception in February 1976, and particularly with the advent of 10% technical articles per issue earlier this year, our VUD has been hailed by some as the finest DX magazine available anywhere--and the fine publications printed by other DX clubs extend that compliment even further! Though most comments on the Digest were not expressed to us in conjunction with WTFDA's member survey, this seems an appropriate place to present comments both pro and con. Of course, general member opinion of the VUD and some specific comments were printed earlier in this report, and will not be duplicated here.

Many comments received at your editor's desk (and those comprise the bulk of the material here; most remarks sent to HQ were printed in the MAILBOX column or never forwarded) were along the lines of "The VUD looks great; keep up the good work!" For these compliments, we thank such members as Frank Aden, Randy Dorman, Mike Dorner, John Ebeling, Paul Gaines, Glenn Hauser, Marty Lillie, Dave Pomeroy, Don Ruland, Ken Simon, Paul Traska, Robert Williams, and many others not mentioned (this list does not purport to be complete; much of what follows was tediously compiled from dozens of personal letters).

But what do WTFDA members think of specific aspects of the Digest? Some qualities were often praised, notably the increased number of technical articles and the new Table of Contents. Others commented on the well-filled pages and lack of "white space," or the improved regularity and appearance of the newly arranged DX columns. Here are some specific comments, along with some of the more lengthy general ones; unless noted otherwise, all are WTFDA members.

DAVE BROWNE (ANARC Executive Secretary): "The best of personal good wishes and lots of luck to you for continued success as Editor of WTFDA's excellent VHF-UHF DIGEST, which I surely am enjoying. It's a fantastic magazine--getting better and better with each issue under your inspired editorship. And I note with pleasure the increasing list of new members...You, Pete Oprisko, Morrie Goldman and the officers and directors are doing a fine job of dedicated leadership with good management and administration." (Which is shown nowhere more vividly than by the fact that we're in better financial shape now than ever before, and our membership rolls threaten to shatter the past record of 330. Thanks, Dave, and continued good work with ANARC! --CWI)

PHIL BYTHEWAY (former publisher, IRCAs DX Monitor): "I ought to mention that I'm receiving the WTFDA bulletin... (It's not a bulletin, Phil! --CWI) It is well put together and contains quite a bit of valuable information. There are a few things I thought you might like to know. The type in FCC FM NEWS that is small and narrow is pretty difficult to read, at least for me, and often times it is too light, which doesn't help much. (Yes, but Dr. Elving would have a 15-page column if the data were full-size, hi! --CWI). Also, the EASTERN TV DX editor has a messy typewriter, as noted in a few issues received here. (Not really; the problem is more at the printing end, and in handling, where the nylon ribbon ink tends to smear on the erasable bond that Bill Thompson uses --CWI) ... And now for the good news. I really enjoy the well-filled issues. You certainly don't waste space as (one club) does in (their magazine). Every issue is crammed with tips... I especially enjoy the pictures in almost every issue, and the abundance of logos and letterheads. You seem to have found a good printer (More on this later! --CWI) as the issues are very clear and not too light or dark... I also like the style of the page numbers, both being on the outside of the page and their readability." (As a DX magazine publisher, Phil, your comments are particularly appreciated. Thanks also to John Zondlo, who forwarded these remarks for reprinting here --CWI)

RANDALL CLARK: "Let's hope that Pete Oprisko can continue the nice color selection (for VUD covers) that he's been doing since I joined in June (1976)." (Yes, let's hope! Pete deserves thanks from all WTFDAers for his choice of colors, which have helped to make our Digest the "brightest" of all DX magazines, and for his clever "graphics" often found in the upper left-hand corner of the Digest cover --CWI)

JOHN COMBS: "Let me compliment you on the work you've been doing as editor of the VUD. The bulletin (wrong word, John! --CWI) has taken on a more professional quality with you at the helm. (You sound like Doug Everitt, hi! --CWI) I dare say none of the other DX clubs' bulletins can compare! (And I dare say you're probably right! Thanks, John --CWI)

DAVE COX: "Clarke, you're doing a GREAT job with the VUD. There has been a marked improvement in the last three issues... The last VUD (October) was one of the best ever. Keep it up. I especially like the technical stuff." (I'm glad to hear you're enjoying the tech material; I consider it one of WTFDA's major selling points. Thanks, and keep up the good work with SFM --CWI)

MIKE DALTON: "I hope your efforts with the VUD have been fruitful! I for one appreciate your work to get the publication to appear with some regularity." (Yes, but it's starting to give me irregularity, Mike, hi! --CWI)

DON ERICKSON (who belongs to all ANARC clubs): "I don't mind going on record as saying that the VUD is and always has been the best put-together bulletin in the hobby. (But it's not a bulletin, Don! --CWI) Only in recent times has SPEEDX come close to approaching WTFDA in quality of publication; none of the other bulletins begin to look as nice." (Now if we can just keep SPEEDX from learning there are other cover colors than yellow, hi! Seriously, I'd say both SPEEDX and NASWA's FRENEX are ample competition for our Digest in terms of appearance--and keep an eye on NRC's DX NEWS. --CWI)

More comments on the "new and improved" VUD from members and non-members alike:

BRUCE ELVING: "I sure like the new look of the VUD, and I think we have a better printer than before." (Yes, we do; Mr. and Mrs. Pape over at the "Big Red Q" have really bent over backwards for us in providing rush jobs when needed, and in saving club funds by their fair pricing. As Pete Oprisko said at the ANARC Convention, we were really lucky to find this "mom and pop" operation. They deserve a hand from all WTFDAers --CWI)

DOUG EVERITT (see also earlier comments, five pages back): "Congratulations on yet another great issue. It's nice to get the January VUD so early! I fully support the new "10% Rule." It'll be nice to see more tech workups...I notice that, once in a while, you vary the paste-up order of the columns. (The Table of Contents makes this possible with minimal confusion --CWI) I like that, as it leads to variability rather than routine. I also greatly enjoy Harry Hayes' drawings." (Members can also thank Harry for our "From the Staff" page --CWI)

WAYNE FITZGERALD: "I would like to both commend and thank you for your fine work for WTFDA. I can't imagine where you find the time." (Sometimes I wonder myself, Wayne, hi --CWI)

EDWARD SHAW (NASWA Executive Council): "WTFDA holds my admiration. I wish I had the time to devote to this phase of our hobby. Alas, SWBC got me early, and I now find myself knee-deep in administration of the club with Mac (Leonhardt)...Good luck on your advances in WTFDA. I can't say that NASWA has been hurting either." (So I hear; Dave Browne tells me you're well over 1400 now. Good work! --CWI)

DENNIS SMITH (WTFDA column editor from 1968-1976): "It looks as though WTFDA continues to be in good hands, and I will be looking forward to its many worthwhile articles by its many capable editors...Thank you for the great work you are doing for WTFDA to help keep it the dynamic forward-looking club it must be to survive as a healthy organization." (And thank you, Dennis, for all your efforts for WTFDA since its creation in late 1967. Our club would be a different organization today had you not become involved --CWI)

BILL THOMPSON: "The layout work in the VUD since you assumed the editorship has been superb! I hope you can keep up the great work. I've seen many photo offset printed technical publications that look amateurish in comparison to the VUD...Since you have assumed the VUD editorship, I have to admit that I am no longer reluctant to show it to my friends in amateur radio. Some of them look down on DX clubs in general as being too juvenile, pointing out the various controversies that many ANARC clubs get involved with as silly and pointless. (Too true, Bill --CWI) When I showed a copy of the VUD to one very avid VHF ham a couple of years ago, he laughed at what he considered to be an abundance of overspecialization, what with so many editors. He even wondered sarcastically why WTFDA didn't have a column on DXing garage door remote control transmitters! (Look back far enough, and you might find it, hi --CWI) I can say that I'm glad to be able to let him look at my VUD copies these days. The increased technical material...(and) the streamlining of the publication is most welcome here. Keep up the super work! (You too, Bill, as editor of EASTERN TV DX --CWI)

One set of comments received here concerning the "new look" of the VUD merits special attention. These remarks arrived here only recently (early July) and although the writer's name will not be revealed, he is a prominent WTFDAer and former VUD column editor:

I'm tired of so many people wanting the VUD to look "pretty" instead of being DX orientated (sic). By that, I'm talking about the Northern, Southern, and Western DX columns. (1) With the mandatory column form, there are so many DX related things being edited, it's not funny!

I see no way that one half of one line can be used to report all needed information such as call letters, frequency, state, city, stereo/mono, format, logos and distance. (2) The VUD's of '70 were far superior to anything you print now, because all the "chit-chat" was sacrificed (sic) for a "pretty" VUD. Using mandatory column form, there is no way to note when an Es opening begins or ends, or

(Continuing with comments on the "new look" of the VUD from a prominent WTFDA member and former column editor:)

even what the MUF was. (3) Also there is no way of reporting how many bursts you may have received in an hour during MS, how many seconds or minutes a burst may have lasted, or was it even in stereo. (4) Tr, Es, Au intensites (sic) are lost to fellow members, since your form does not allow room for these facts either. I would like just one reason why the column form is mandatory, instead of giving the members a choice of sending their reports in column form or paragraph form. (5)

If that's not bad enough, how can you have the nerve to edit true DXers' reports for "ZERO" mile DX? For example, the Northern (FM) DX columns of February and March issues both contain reports from (member's name deleted) logging his home town stations. When I'm forced to send my reports in mandatory column form, which I totally refuse to do, and then have these reports edited to make room for "ZERO" mile DX, this to me is the last straw! (6)

Members not acquainted with the use of "sic" are advised that it is used after misspelled words from the original text which have been printed intact. Thus the above errors are the member's, not this writer's.

Here now are my replies to the above comments, cross-referenced by means of numbers placed after the phrases in the text to which I refer:

- (1) The true column arrangement is Northern and Southern for FM DX, and Eastern and Western for TV DX; this member has his wires crossed!
- (2) For an excellent example of the two-column FM format including all the elements mentioned, see Bill Feidt's report on p. 19 of last month's VUD.
- (3) Bob Cooper and Pat Dyer have been indicating Es opening start and end and peak MUF reached for years---using the columnar TV DX format. FM should provide even more opportunity for this!
- (4) Aside from the fact that such detailed MS info may mean very little to most members, I can think of only a handful who have ever reported it at all.
- (5) One reason why columnar form for DX is mandatory? I'll provide four: The first and most obvious purpose is to reduce the volume taken by DX reports in the Digest, allowing more space for technical articles and other features. Witness the 43 pages of DX reports in the oversized 72-page August 1976 VUD vs. only 27 DX pages in this issue, one year later. Contrary to what some may think, the columnar DX form is more efficient and less wasteful of space than the paragraph format--which leads us to point number two: reports submitted in the columnar form are far easier for our editors to compile and to edit, if necessary. The paragraph form leads to rambling and inclusion of unnecessary comments, and editorial axing of these superfluous remarks can only lead to antagonism between editors and reporters. Third, paragraph form is next to impossible to search through for format or other data on a particular station; the "jumble" of call letters with different information makes this extremely difficult to "plow through" (let alone read). And finally, the columnar format is much more attractive in print than the paragraph form; it makes for less formidable reading, and readability is one aspect of the Digest we are always trying to improve.
- (6) Granted, the reports of local stations by the DXer in question should have been edited. But no distances were included by this member, and it is simple enough for a column editor to overlook such inclusion of "non-DX" stations. This is another reason why we ask all reporters to measure and report distances of DX stations whenever possible; it is an aid to our editors, and makes spotting possible record candidates for the STATISTICS column much easier.

As far as I'm concerned, the suggestion that 1970's Digests were superior to today's issues invalidates this member's entire argument, because such an idea is patently absurd. Anyone feeling mimeographed issues to be more attractive than offset-printed product is urged to subscribe to NNRC, the CIDX Messenger, and any number of associate club "bulletins," and decide for themselves. Other than this, I refuse to dignify this point by arguing it; even the advantage of some technical articles, which the 1970 VUDs may have held over the 1974-1975 issues, has been wiped out by WTFDA's new "10% Rule."



MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 15th

New Members:

Dennis Ambrose
D. Blemaster
Linda Brodsky
Brian Cartwright
Gordon Draeseke
John Grable
Lew Guinn
Jim Hopkins
Michael Lapinski
Earl McDonald
David McLaren
Mike Mitock
John Pilger
John Ruckert
Bruce Shaw
Norman Sorensen

Box 1
2532 Circle Drive
245-16 149 Ave.
106 Leila St.
1347 Santa Maria Ave.
11550 Paramount #24
1839 Lucille
29 Grandview Ave.
3065 Route 11
415 S. Oxford Ave. #310
Route 2, County Line Rd.
975 Osborn Ave.
7738-A Nelson Loop
953 S. Beacon Ave.
RD #3, Box 292A
3107 Georgetown

Bethany, ON LOA 1A0
Newport Beach, CA 92663
Rosedale, NY 11422
Johnstown, PA 15905
Baywood Park, CA 93402
Downey, CA 90242
Los Angeles, CA 90026
Pitman, NJ 08071
LaFayette, NY 13084
Los Angeles, CA 90005
Rock Falls, IL 61071
Lorain, OH 44052
Fort Meade, MD 20755
Los Angeles, CA 90015
Ligonier, PA 15658
Houston, TX 77005

Renewals:

Richard Clark, Clinton Day, John Ebeling, David Egan, William Johnson, Nick Lombardi, Mark Lucas, Eldon Luoma, Dean Markoshan, Eric Strahan, Robert Williams, John Winslow.

Rejoin:

Charles Zipser-c/o Courtney Lock & Hardware-2242 Jerome Ave.-Bronx, NY 10453

Address Changes:

Randall Clark-West Virginia Rehabilitation Center-Box 325-Institute, WV 25112
David Egan-9 321 Jeanne Mance-Valleyfield, PQ J6T 5S2
Eric Strahan-Box 1277-Dania, FL 33004
Dr. Richard E. Wood-Department of Languages-Plymouth State College-Plymouth,
NH 03264

Renewals Due in September:

John Anderson, John Basehore, Mike Bugaj, Robert Buta, Paul Caltigrone, Terry Colgan, Robert Curtis, Bill Dulmage, James Filler, Robert Fischer, Stephen Francis, George Greene, John Guiney, Glenn Hauser, James Moses, Wayne Murphy, Gordon Nelson, Kurt Nelson, David Parry, W. Ryan, Peter Sawatzky, Mike Scheel, Randy Schnepf, Richard Segalas, Tony Ward, Larry Weil, Michael Wimer.

Sorry, guys, LINDA BRODSKY is already spoken for (married, that is, hi). She's a social worker, a member of NRC, and uses a Realistic Pro 3A for VHF DX.

The other side of the BCB coin brings us IRCAN BRIAN CARTWRIGHT. He's a 17 year old student who DXs TV with a 1963 Zenith 24" black and white set. GORDON DRAESEKE gives his DX interests as medium wave and shortwave, along with TV-FM. He also belongs to NRC and NASWA.

As you can see by recent Mailbox columns, we've got new members coming out of the woodwork. That should make 20 year old carpenter JOHN GRABLE happy. He comes to us with an interest in monitoring local public service bands. His gear includes a GE tunable receiver and a Bearcat scanner.

Another outstanding BCB DXer joining us this time is JIM HOPKINS. He's one of the top arrangers of DX tests from BCB stations. Jim uses a Sony STR-6055 for FM DX, and he's a member of both IRCA and NRC.

TV is the top DX interest for MICHAEL LAPINSKI. Equipment in his shack includes a Zenith color TV and a Winegard CW1000 antenna.

Communications World is where DAVID McLAREN found out about WTFDA. He's interested in the VHF, UHF, Aircraft, and Utility bands, and DXs with a Regency TME-8A aircraft receiver and Bearcat 101 and 210 scanners.

MIKE MITOCK DXs the BCB, SW and TV bands. His equipment includes a Sony TFM-8000W, a Pencrest color TV, Realistic Pro-7B scanner, and a Tannelac MS-1 scanner. Mike is a member of IRCA, NRC, and NOARS. Our condolences go out to Mike on the recent death of his wife.

New member BRUCE SHAW is a student at the University of Pittsburgh campus at Johnstown. He's into shortwave, BCB, and TV DX, and is a member of IRCA.

Tidbits.....

A few words are in order for recent new members. First of all, we have Thomas Adams, who is a 30 year old probation officer. Gear in his DX shack includes a Kenwood 9600 receiver, an ICF 5900W, and a FRG-7 communications receiver. Thomas adds WTFDA to his club membership list, which also features IRCA, NRC, and NASWA.

Don Davis comes to us from the peach state, Warner Robins to be exact. He's primarily a BCB DXer and makes a living as a USAF technician and a TV repairman.

Motor city member Leonard Jozwiak writes to tell us that his interests include FM and BCB, and that he belongs to NRC and NNRC.

Robert Goodman has several topics to discuss: "To monitor TV video aurally, place an AM receiver next to the TV receiver. Tune to a radio channel which is (a) quiet, and (b) 150 khz \pm a strong signal. When a picture is on, the flyback signal will beat with your radio, causing the radio signal to come in. The only trouble is that by my calculations, it's off by a factor of ten - (30 frames/sec) x (525 lines/frame) \approx 15 khz; but it works nonetheless. TV and radio (and most other inventions) are older than you think. Long before Nipkow's disk of 1884 for over-the-air TV transmission, in the 1860's, in fact, an Italian inventor achieved some success in closed-circuit video. And wireless radio has been recognized for a decade by an act of Congress to have been the invention of an American dentist in the 1860's (see "The REAL Inventor of Wireless", Popular Electronics, about 12 years ago). And what's the cause of the garbage on some UHF TV receivers? They're shimmering ribbon-like features that move vertically and are more prominent on lower UHF channels. Seems to get worse with advancing age of the receiver."

David Egan has renewed his WTFDA membership, and has also renewed his interest in DX: "Well, I've decided to rejoin the club after all. I dropped out in April because I had so much to do I had no time to be involved in DX. Then, at the end of April, I moved to my new address. Somehow, when the first Es started coming through on my crummy rabbit ears antenna, I FOUND the time to get interested in DX again. It had been a very dry two years at my 92 Jeron location. It was a particularly poor spot for reception. However, my new address is exactly one mile in north and south direction from lakes and canals and about a mile and a half from water west of me. I live on the third floor of an apartment block with little or no buildings of consequence to my southwest. With only rabbit ears I have managed to log 7 or 8 new skip stations in this first month of Es season. Es is amazing here, building up through channel 6 regularly, and even the channel 7 frequency is built up with rolling bars on several occasions. This may be a solar cycle or something, or it may be my location. Whatever, I have resumed an interest and the time is being found for DX or DX-oriented activity."

CB is proving a valuable aid to Clinton Day: "With the addition of a CB radio to my father's home entertainment repertoire, I find that his reception offers an often valuable guide. If he experiences skip conditions on his CB, chances are there could be something brewing on TV 2-6."

Charles Zipser belonged to WTFDA in 1975, and now he's back in the fold. He runs down his DX equipment: "Antennas are respectively: a 7 foot Channel Master Dish (8 stories up), 9 element FM Channel Master on the same pole plus rotor; also, 600 feet of wire on AM and an amplifier for the first two and a separate amplified loop for AM also."

Lots of material this month, eh? This is from Wayne Fitzgerald: "I would like to say that I am proud of being a member in WTFDA. Although I have neither the time or assets to be more active in the club, I look forward to my VUD each month and read it cover to cover! I do plan to raise my antenna to 50' this spring and purchase a new 12" portable TV to use just for DXing. Perhaps someone in the club can advise me of what might be the best brand of TV for DXing. At any rate, I enjoy your good work and hope you keep it up."

WTFDA membership jumped by 26 in May and by 13 in June....we now stand at 326 members as of the 3rd of July. California is the most populous WTFDA state with 32 members, the bulk of them in the Los Angeles area. The rest of the WTFDA top ten shows New York with 26 members, Ontario 20, Ohio 19, Illinois 18, Pennsylvania 17, Indiana 16, Michigan 15, Texas 14, and Florida 11.

Contributing greatly to the rise in membership is a mailing made to over 700 members of IRCA and NRC asking them to take a look at WTFDA and join the club. The project is a resounding success so far, and we look forward to many more new members in the months to come. See y'all in September.....jz



FM NEWS

Bruce F. Elving, Editor
18 1/2 East Fifth Street
Duluth MN 55805

New Station Grants

FL Boynton Beach *88.7 (but one source says 88.9, so which?) 50000; 479; g Moody Bible Inst.
IL East Moline *89.3 100000 h,v; 500; g Moody Bible Institute
IN Muncie *90.5 Schools
MD Elkton *88.3 3000 h,v; 260' g
MA Charlton (42-08-00; 71-57-30) *90.1 10 watts High School
MN Minneapolis *90.3 10 watts; "Fresh Air"; granted over protest from Minnesota Public Radio (KSJN) that MPR could not effectively pick up KSJR *90.1 Collegeville MN at the KSJN *91.1 St. Paul studios for rebroadcasting. [km
MS Centreville 104.9 3000 h,v; 300'; MS Columbus 103.9 3000 h,v; 205'
NE Lincoln *89.5 10 Sunrise Communications--granted over the protest of Omaha ch. 6 TV. [College
NY Brooklyn *90.9 10 Kingsborough/OK Edmond *90.9 10 OK Foundation
PA Hollidaysburg (Alltoona) 104.9 122 h,v; 1220'
PA Lancaster *90.3 g 1050 h,v; 88'
UT Ogden 95.5 100000 h,v; 680'; k
MB Gods Lake Narrows 99.9 1800 w
MB Manitogatan 101.3 154 w [CBC-CBW
MB Oxford House 95.5 78 w (AM) re-
MB Waasagonach 105.1 1700w [ayers]
PQ Brisay [or "Camp Brisay"] 100.5 520 w; CBRF 100.1 Radisson PQ relay
PQ Camp LG4 100.1 (near James Bay) 593 watts--CBFR (FM) repeater
PQ Lafarge 99.9 520 w CBRF repeater
Alta. Fox Lake 96.9 148 w [All CBC
JeanD'Or, Alta. 102.5 52 w [relayers
Alta. Red Deer 102.5 1560 w
103.5 1560 French

On Air and DX Ready

AR Arkadelphia KOEL*-FM* 100.9 3000 h,v; 96'
CA San Luis Obispo KCBX*-FM*90.1 3600 h,v; 1410', c.j, SCA
CO Glenwood Springs KGLS 92.7 3000 h,v; -300'; stereo; adds SCA
GA Gainesville WBCX *89.1 10 [300'
IL Chillicothe WCCL 94.3 3000 h,v; /
IL Glen Elyn WDCB *90.9 5000 h,v; 360', c.j, share-time WEPS Elgin[360'
IN Batesville WRBI 103.9 1950 h,v; /
ME Portland WFXG 93.1 50000 h,v; 225' stereo, soft rock
NY Dix Hills WHUJ *88.9 10 watts /
NY Stony Brook WUSB *90.1 4000h,v;225'
ND Mandan KNDR 104.9 3000 h,v; 290'
OK Ardmore KRRO 92.1 3000 h,v; 210'
SC Homea Path WRXJ 103.1 3000 h,v;300 stereo, rk, SCA.

TX Floresville KWCB 94.3 3000 h,v; 94'
TX Marlin KLMT 96.7 1250 h,v; 200'
UT Roosevelt KUHS *90.9 10
VT Montpelier WUCS 96.7 400 h,v; 700'; stereo
WA Richland KXDD 106.3 2960 (horizontal) -44'
WV Buckhannon WVMC *89.9 10
WV Wheeling WPHP *91.9 10 (Calls, too)

On air with Changes (selected)

IN Bloomington WFIU 34000 h,v (590')
IN Crawfordsville WLFG 103.9 920 h,v; 500'; \$
LA Alexandria KSLI 96.1 on w/ vertical
MI Spring Arbor WSAE *89.3 3100 h,v; 240'
OH Gallipolis WYPC 101.5 35000 h,v; 350'
OK Oklahoma City KKNK 92.5 98000 h,v; 900'
TN Kingsport WKPT-FM 98.5 95000 h,v; 1260'
VA Roanoke WLRG 92.3 20000 h,v; 2000'

Multi-City Identifications Granted

AL Decatur WRSA 96.9 adds Huntsville
CT Brookfield WRKI 95.1 was Brookfield-Danbury; now just Brookfield
ID Caldwell KBXL adds Boise
IL Murphysboro WIAO 104.9 adds Carbondale
MA New Bedford WMSY 98.1 adds Fall River
MI Alma WFCY-FM 104.9 adds St. Louis MI
GA Jesup WSOJ*-FM* 98.3 adds Ludowici GA
PA Lancaster WNCCE 101.3 adds York
TN Kingsport WKPT-FM 98.5 adds Johnson City and Bristol TN
TX Dallas KERA-FM *90.1 adds Fort Worth
VA Norton WNVVA-FM 106.3 adds Wise VA
WI Sauk City WVLK 96.7 adds Prairie du Sac WI

New Transmitter Installed--Stereo?
NY Seneca Falls WSWF-FM 99.3

FM Translator News

AL Selma W288AG 105.5 \$, g (WPCS *89.3 Pensacola FL rebroadcast); A, new grant
CO Leadville K276AJ 103.1 \$, m (KRDO-FM 95.1 Colorado Springs rebroadcast); new grant
ID Preston K272AB (not K272AA); 1-watt translator on air; from list supplied by KALL-FM 94.1 Salt Lake City UT; KALL-FM writes and says its 67 kHz is used for 20-30 Hz sub-audible telemetry only; delete listing as SCA
UT Brigham City 105.5 K288A1 (not K288AA); , KSL-FM 100.3 Salt Lake City UT translator
UT Delta K296AB 107.1 (moves from Oak City), KALL-FM 94.1 ten-watt translator
WA Seattle K283AA 104.5, \$, p (KISW 99.9 Seattle); granted over protest of KERI 104.3 Bellingham WA, which felt Seattle would lose KERI reception. KERI wanted them to apply for a Class A channel; but no A channel available without interference, so a Class C channel granted by the U. S. Federal Communications Commission for the station.)
WY Evanston K288AA 105.5 (not K288A1); KALL-FM one-watt translator.
Apparent errors in the list of translators supplied by KALL-FM are Circleville UT (one-watt) K298AE given for K292AE 106.3; K288AA

for K288AB Lyan and Fort Bridger WY (heard on the air over KALL-FM via skip announcing as K288AB), and Panguitch UT K244AH for K244AD. Omitted from the oral and written lists was K237AM 95.3 Tabiona UT, which may still be a construction permit and not yet on the air. All of this proves you can't even trust lists issued by stations themselves!

\$, Stereo Resumed, or to be Stereo

AL Troy WTSU *90.1 (There's a report WTUN 100.1 Selma AL may have quit stereo).
CA Riverside KUCR *88.1 WA Yakima KYBO 98.3
CT Norwalk WLYQ 95.9, m WY Sheridan KROE-
FL Arcadia WOKD 98.3; k FM 94.9
FL Ocala WMFQ 92.7
MS Coldwater WVHM-FM 95.3
NJ Newark WHBI 105.9, ethnic; apparently resuming stereo after a long absence
WA Spokane KNBI-FM 107.9

Facilities Changes

AL Fayette WHKW 98.1 100000 h,v (350')
AZ Tucson KXCN-FM 93.7 25500 h,v; 195'
CA Bishop KIQO 100.7 1000 h,v; 2960' 33, 75 mi
CA Patterson KOSO 90.1 directional antenna, 1550 h,v; 1790'
FL Green Cove Springs WKJK 92.7 300' (3000h,v)
FL Titusville WPIO from 89.9 to 89.3 1600;115'
IL Plano WSPY 107.1 300' (3000 h,v)
IN Terre Haute WISU *89.7 10500 h,v; 370'
LA Abbeville KRDF-FM 104.9 300' (3000 h,v)
LA Crowley KHIO 102.9 450' (100000 h,v)
LA Ferriday KFNV-FM 107.1 3000 h,v; 145'
LA Laplace WCKW 92.3 51000 h,v; 440'
MA New Bedford WMSY 98.1 47000 h,v; 510'
MI Coldwater WANG 98.5 adds vertical
MI Muskegon WMSU-FM 106.9 50000 h,v (270')
MN Golden Valley KQRS-FM 92.5 820' (100000h,v), rp (from pl)
MN Richfield KQWB-FM 101.3 820' (100000 h,v)
MN St. Paul KEFY-FM 102.1 820' (100000 h,v)
MO Mountain Grove KLR5-FM 92.7 295' (3000h,v)
NY New York WKRC *89.9 760 h,v; 1380'
NC Charlotte WSOC-FM 103.7 98000 h,v (1040')
NC Raleigh WCPE *89.7 12500; 255' 19, 55 miles
OH Bryan WRNO-FM 100.9 300' (3000 h,v) + SCA
OR Eugene KLCC *89.7 9200; 850' 29, 67 miles
PA Red Lion WGBF-FM 96.1 50000 h,v; 500'
PA Tamaqua WZTA 105.5 1000 h,v; 480'
SC Columbia WMMK *89.7 100000 h,v (420')
SC Rock Hill WVPR *88.9 97000 h,v; 600'
TX Abilene KFHM construction permit reinstated to move from 99.3 to 107.9 100000 h,v; 285'
TX Brownwood KLSN from 99.3 to 104.1 25000 h,v; 205'; 20, 56 miles
UT Provo KBYU *88.9 2910' (32000 h,v)
VA Richmond WRKX *106.5 adds vertical
WV Bluefield WHAJ 104.5 83000 h,v; 1200'
WV Wheeling WKNM-FM 97.3 adds vertical
WY Cheyenne KFBC-FM 97.9 claims to have v and be direction to the NE, but letter from a non-engineer was not too sure of these facts?

PR Rio Piedras WFID 95.7 50000 h,v; 800'
 PR San German WRPC 95.1 25000 h,v (1970')
 ON Kingston CKLC-FM 98.3 95500 h,v (519')
 ON Ottawa 106.9 100000; 931' 44, 90 miles; News

SCA (67 kHz) News

CA Santa Maria KXFM 99.1 has SCA
 FL Fort Pierce WLOQ 98.7 music
 FL Pensacola WJLQ 100.7 uses SCA only for low-level telemetry (3 1/2 injection); delete listing as an SCA station for meaningful purposes
 FL Panama City WONE-FM 98.5; no SCA; uses "Q-98" non-ID; call letters' change coming?
 FL Tampa WUSF *89.7 talking book
 WFLA-FM 93.3 music

FL Vero Beach WGYL 93.5 music
 GA Albany WJIZ 96.3 has an SCA authorization, but they tell me they are not using it; has discontinued use of stereo generator, too; claims to have vertical.

GA Albany WGPC-FM 104.5 music
 HI Waipahu KULA 92.3 adds SCA
 IA Clarion KRIT 96.9 teleprinter noise (+X)
 KY Hazard WSGS 101.1 adds SCA
 KY Owensboro WSTO 96.1 no SCA
 LA New Orleans WNOE-FM 101.1 music

WVLA-FM 101.9 teleprinter noise; drops TB for the blind?
 MA North Adams WNNB-FM 100.1 music
 MT Missoula KYSS-FM 94.9 adds SCA
 NH Durham WUNH *91.3 adds SCA
 OH Cincinnati WGUC *90.9 adds SCA
 PA Boyertown WBYO 107.5 adds SCA
 SC Seneca WBFM 98.1 Mutual news relay
 TX Houston KUHF *88.7 adds SCA
 TX Odessa KKKK 99.1 adds SCA
 UT Ogden KQPD 101.9 adds SCA
 TX Dallas KMGQ 102.9 seems to be gospel on SCA, but rock on main channel; may be stereo

Non-IDsers (selected)

PA Scranton WFZX 107.1 FM-107
 ON Toronto CFCM-FM 107.1 Q-107

Formats/Networks

AL Decatur WDRM 102.1 m (from kr)
 AL Dothan WDOF-FM 99.7 k (not m)
 CO Oak Creek KFNU 103.9 k,m,c,j

Abbreviations

Music formats:
 c classical k country
 e ethnic m middle of the road s soul
 g gospel p progressive rock
 j jazz r rock oldies, top hits, etc.
 Network codes:
 A ABC-FM M Mutual
 B National Black N NBC
 C CBS P National Public Radio
 I ABC Information S Associated Press Audio
 U United Press Audio
 Y ABC Contemporary

\$ is stereo
 v is vertical polarization (while h is horizontal polarization)
 Powers given are effective radiated in watts, commas omitted. Heights: feet above average terrain.

CT Westport WWPT *90.3 rc; does live remote! --unusual for a high school station!
 FL Jacksonville WJEE 107.3 m
 FL Tallahassee WAMF *90.5 s
 GA Buford WGOO 102.3 Y reinstated
 GA Griffin WKEU-FM 97.7 no Mutual
 GA La Grange WWCQ 104.1 k (from m)
 GA Savannah WSGF 95.5 r (from k)



GA Waycross WLTE 102.5 CBS
 ID Pocatello KSIH 94.9 U, music SCA
 IA Clinton KSAY 96.1 m (was kg); station being sold; format may change again
 IA Emmetsburg KEMB 98.3 U; \$; automated m
 IL Arlington Heights WMMW 92.7 r: (was j)
 IL Glen Ellyn WDCB *90.9 cj--on air
 MI Fremont WSHN-FM 100.1 k (from m); station did not appear to have \$, but almost too weak to tell for sure as heard by tropo
 MD Baltimore WDJQ 104.3 r (not p)
 MA Boston WERS *88.9 pj
 MI Midland WRCI 93.5 m (not r)
 MO Farmington KTJJ 98.5 k (not nk)
 MO Jefferson City KJMO 100.1 r (not m)
 KJFF 106.9 m (not k)
 NJ Atlantic City WMGW 103.7 r (not m)

NC Kinston WQDW 97.7 s (Drake-Chenault's "Supersoul"); B (National Black Network).
 OH Hamilton WHSS *89.5 pr
 OH Kettering WCXL *88.7 g
 WKET *89.5 r
 OH West Carrollton WQRP *88.1 g (WQRP and WCXL heard programming in unison; even giving combined id's)
 OH Wilberforce WCSU *88.9 jp
 PA Scranton WDDL 104.9 S (AP Audio)
 TX Corsicana KCIR 107.9 k (from r)
 UT Cedar City KSUB-FM 92.5 CBS
 WA Bremerton KBRO-FM 106.9 k (not kc)
 WA Seattle KYYX 96.5 r (from js) no \$
 KISW 99.9 p (from r)
 KVI-FM 101.5 r (from k)
 KZOK 102.5 p (from r)
 WA Tacoma KTOY *91.7 rs; no stereo
 WI Ashland WATW-FM 95.9 E, m
 WI Milwaukee WUWM *89.7 S, P [(not mc)
 BC New Westminster CFMI 101.1 rm /
 BC Vancouver CBUF 97.7 cm (from c)
 CBU-FM 105.7 cm " "

Call Letters

AZ Douglas 95.3 KAPR-FM
 AZ Sierra Vista 100.9 KTAZ"-FM" (from KTAN-FM)
 AR Lake Village 95.9 KLVA



RADIO 102 FM - P.O. BOX 102 FRANKLIN, N. J. 07416

NJ Franklin WSUS 102.3 Mutual; drops UPI Audio; letterhead says stereo, but when heard was monaural, and no reporter I know of has ever claimed hearing stereo on them.
 NY Buffalo WPHD 103.3 rp (was r)
 NY Liberty WVOS-FM 95.9 S (AP Audio)

Call letters (Continued from last column)
 TN Germantown 94.3 WEEF (WGTG) adds stereo
 TX San Antonio 100.3 KZZY (KSAQ) still rock; "KZ-100."
 WA Tacoma *90.9 KPEC"-FM" (KPEC-FM; has to do with the deletion of UHF television station KPEC)

Deletions

AZ Safford 94.1
 Lebanon 92.1
 Grant of Leadville CO translator (see previous page) leads to assumption that the "extra-legal" translators there are all deleted: "K219"91.7 (KXXK 95.7 Denver), "K292" 106.3 (KRDD-FM 95.1 Colo. Springs); "K299" 107.7 (KVMN 96.9 Pueblo).

GA Valdosta 95.9 WJGA LA Hammond
 HI Hilo 97.1 KFSH 107.1 WHMD
 ID Sun Valley 93.5 KSKI-FM (WFPR-FM)
 IN Fort Wayne *89.1 WIPU NY Attica
 IN Rensselaer *90.5 WPUW 101.7 WBTG
 KS Wichita *91.1 KDSA 101.7 WBTG
 MA Holliston *91.5 WHHB
 MA Orleans 104.7 WLOM (WVLC-FM)
 MI Alpena *91.7 WML-FM, to be \$, cj, UP (same programming as WCMU *89.5 Mount Pleasant MI)
 MI Grand Rapids 95.7 WZZR"-FM" (WZZM-FM)
 MI West Branch 105.5 WBM1
 MN Pine City 92.1 WMP-FM
 MO Poplar Bluff 95.5 KJEZ (KMMX); \$, m
 NV Las Vegas 92.3 KENO-FM (KTRI)
 NC Elon College *89.3 WSOE
 OK Goodwell *91.7 KPSU [still K-103?]
 OK Oklahoma City 102.7 KZUE (KAFG); /
 SC Laurens 100.5 WGLX (WLBG-FM); adds stereo, m, s (dropping U)
 TN Brownsville 95.3 WTBG (WTBG"-FM")
 TN Etowah 103.1 WMCC

The hiatus at WVOI 92.7 Tisbury MA continues, with no buyer for the silent station coming forth; FCC deadline nears for possible deletion of the station. An educational FM station may be applied for at Provincetown MA. The new WMGX 93.1 Portland is experiencing interference to WCSH-TV, ch. 6, with FCC allocations accused to be at fault. On p. 97 of the Atlas, calls WRLM given on 99.1 for Plymouth MA; should be WPLM. On the maps WMEA Portland ME should be 90.1.

Since its reinception on the air, WBAI 99.5 New York "has become quite a bore. All the programs not having to do with gays or music revolve around the 'crisis'." (WBAI called me after I reported hearing them by skip, and I managed an FM Atlas plug on the air, unless I was bleeped out.)

"Licensed or not, WBJQ 88.7 Midland PA was heard on Thursday in Pittsburgh" by Clarke Ingram. Clarke sent a tape of WBJQ "89-Q," which is apparently unlicensed and heard about 25 miles away, indicating a power of at least 10 watts, and WBJQ sounds quite professional with r, jingles, etc. A new candidate for listing in the FM Atlas? WAVA-FM 105.1 Arlington VA said to be staying all-news.

"I enjoyed your first article on SCA. In a future article, why not list all the 'unknown format' SCA stations?" writes Nick Lombardi. To do so would take too much space; I once counted 600 unknown format stations. If you see a **noted** station is "adding SCA" with no format given, this is an unknown format station and it would be nice if any reporter hearing the SCA on such a station would write in and share the format information with the rest of us.

The new WTMJ Miami translator on 102.3 in West Palm Beach has a poor signal, even considering it is only 1 watt. I list its call as W272AB. It has verified for Ken Simon; Bill Elliott, chief engineer.

A new station in Panama on 90.9 is HOHM-FM Chitre (no power indicated) with 50-watt repeaters on 97.3 and 106.3 somewhere in the country.

Sheldon J. Swartz and Ken Simon are preparing by-frequency FM listings by state, giving formats. So far they've done Florida; they are moving right along and will be able to offer any state this way to any DXer for two 13¢ mint stamps. They are also working up an address list and can offer an exact address, including ZIP Code for any USA station for 13¢ postage. Write to Sheldon J. Swartz, 625 Wilmot #4, West Palm Beach FL 33405 for any of these listings or help with addresses.

WOKF 95.7 Clearwater FL, now with 100 kw, and WYNF 94.9 Tampa, appear to be battling competitively for the ratings edge, since their signals now largely overlap. WFPL *89.3 Louisville KY is on with SCA carrier, but nothing else on SCA. Ralph Strobel in IN wondered, even with WFMS 95.5 Indianapolis off, he could never find WCLV Cleveland. "The Detroit station WLDM signed on and was very strong. Where is WCLV?" Methinks WCLV is directional with a null to the west, protecting WLDM. WCML-FM Alpena (xmtr Atlanta MI) expects to be on the air on 91.7 late fall, 1977.

One member has written Clarke Ingram to suggest that the FCC require proper IDs more than once per hour. "These past few skip openings and the stupid nonIDs used got me sort of frustrated," writes John Ebeling. "Maybe we could bombard them with letters or get up a petition." Good idea!

A MO writer claims KSSS is announcing its St. Louis frequency as 107.5, not 107.7. "I would say that they are rather brave when they say 107.5 on the air, instead of 107.7," and he's sending my card to them telling them what their frequency should be.

KZUE 102.7 Oklahoma City also raised its height (900', 98 kw h, v); mid-ID as "the zoo" usually. KATT 100.5 considering moving up to 1300' for greater penetration into the Enid market.

The resurrected KOCN 104.9 Pacific Grove CA now m, mono; "FM-105." Off the air (and not coming on?) KKDJ 105.9 Fresno CA.

KJNP-FM 100.3 North Pole (Fairbanks) AK plans to be on by now with 24-hours' operating schedule. May be classical and easy listening. A lot of Alaska's FM frequencies are allocated to the military and not available for broadcasting. In Canada, "little or nothing has happened to the FM picture in Vancouver in the past year in spite of your comment that FM radio is growing rapidly in Canada. An all-news station on 96.1 is to be on the air this fall. An application for a new commercial station on 94.5 was turned down by the CRTC because in their opinion 'the proposed station would not add significantly to the diversity of programming already available from Vancouver area radio station.' I don't see how six FM stations (three commercial, three noncommercial) can provide much diversity of programming. I don't know what the CRTC is trying to do to FM radio in Canada, but I know that I much prefer and enjoy the great diversity of programming available from the U. S."

The director of WGGL *91.1 Houghton MI, Read Burgan, has some quotable comments about stereo generators in an issue of the station's program guide: "As a general policy, any monaural program longer than ten minutes is broadcast monaurally. That means that your stereo pilot light will not light during such programs. When it does light up, however, you can be sure that the program you are listening to really is in stereo. Unfortunately, that is not the policy for the majority of FM radio stations in the country. Most stereo stations never turn off their stereo generators—not even for football games!" and he goes on to list several reasons, such as better fringe-area reception, for nulling \$.

CONTRIBUTORS THIS ISSUE: Thomas Caswell, Dunmore PA; Mike Dalton, Tampa FL; John Ebeling, Bloomington MN; J. D. Everett, Enid OK; Robert Fischer, Fairbanks AK; Ted Fleischaker, Louisville KY; Bruce Goldsen, Georgetown CT; Chas. Hoefflinger, Tampa FL; Jim Hughes, Mt. Pleasant MI; Clarke W. Ingram, Pittsburgh PA; Nick Lombardi, Atlanta GA; Doug Lord, Vancouver BC; R. E. Lyons, Largo FL; Don Mayer, II, Memphis TN; Richard Noelke, Washington MO; Rod O'Connor, SW Harbor ME; R.H. Perrin, Wells ME; Rick Sanford, Burnett WI; Dennis R. Scheline, Kingsburg CA; K. R. Simon, W. Palm Beach FL; Andy Smith, Harrisburg PA; Ralph Strobel, Muncie IN; Sheldon J. Swartz, W. Palm Beach FL; Pete Taylor, San Francisco CA; Don Voegelé, Stockton CA; Dr. Richard E. Wood, who's moving to Plymouth NH.

INTERFERENCE FROM ANTENNA MAST AND GUY WIRES

One member asks about the possible changing of antenna characteristics, such as front-to-back ratio, directivity, or impedance because of metal guy wires or supporting mast. He notes that many DXers seem to favor nonmetallic supports for their antenna systems.

Antenna characteristics are, normally, figured in "free space." This means without influence from surfaces that could affect antenna characteristics or modify the signal from a "test transmission." Metallic objects near the antenna can influence the vertical and horizontal patterns; the question is how much.

Obviously, aluminum-sided buildings, water towers, high tension lines, and even other TV masts can cause ghosts by delaying a portion of the received signal. This does not mean that antenna characteristics have changed. However, if located within a few feet of metal gutters, metal roof, or even a shingle roof with blanket insulation and accompanying aluminum vapor barrier below, antenna characteristics will change. Prudent placement of mast or mast height overcomes this problem. (If you want to delve into the problem a bit more, some antenna books use a rule of thumb such as mounting antenna one or two boom lengths above any surface beneath to insure correct pattern. Actually, this rule is rather vague. Wavelengths involved and antenna type are the parameters that must be considered, but boom length seems to be the guide line used.

But, you always have the mast itself, with guy wires close to the antenna, unless you use a non-guyed mast. And this must have a slight effect on impedance, or directivity, in both planes because the metal becomes a part of the receiving system. However, any attempt to eliminate this by nonmetallic hardware seems like a waste of time. The possible improvement is so little that I don't think it's worth the bother.

While on this subject, one thing has bothered me about the design of some UHF parabolic antennas. I'm referring to those where the vertical mast support lies between the dish and transmitter. This mast probably has more effect on antenna pattern and impedance, but what can be done? A nonmetallic mast would eliminate this, but how about strength? One thing I know for sure: After hanging on with one hand while trying to balance and drop into the rotor one of those 7-foot dishes and mast in even a mild breeze, I will never consider anything less than the strongest support for these monsters. In fact, I had to lower my Finco 7-footer (on a sectioned telescoping mast) at my old address for the winter and doubled the guy wires, because I just can't see myself going round and round again with the insurance company explaining how wind and ice caused the system to tumble down!

FOLLOW-UP: Rod Luoma notes that 300-ohm type traps for VHF in the UHF line (Techni-Corner, December 1976) will attenuate at harmonics of the fundamental; therefore, certain UHF channels would be attenuated also. This is, of course, correct. For example, a T-line trap for ch 5 video (77.25 MHz) would attenuate also at 540.75 MHz (ch 25) on the seventh harmonic, 618 MHz (ch 38) on the eighth harmonic, etc. So be alert for this.

In fact, any time you connect a trap, booster, converter, etc. for a primary function, see what influence it has on all channels. For example, disconnecting a low band trap like the old Channel Master models (which have a specified 5 dB insertion loss) might provide just enough signal increase to ID a weak high-band station or low-band station that doesn't need the trapping.

FM DX NORTH



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

August 1977

The month of June and the 1st week in July has produced an unusually high occurrence of E-skin (Es) openings into the FM Band up here in the North, as evidenced in the ensuing reports. Es was noted on the following days: June 4-6, 8-12, 14, 16, 17, 19-22, 24, 25, 27-30; July 1-4, & 6-8. Of particular interest was Peter Sawatzky's reception of Northern Manitoba stations on 6/9. It appears that a lot of us FM DXers have fattened up our log totals on this season's copious Es DX. So let's send in our updated totals to Andy Bolin's STATISTICS Column. It appears that so far only one reporter (Fred McCormack) has received double-hop Es this reporting period; occurring on 6/5 to Florida. Very little tropo was noted, probably due to the fast moving weather systems across the Northern states & Canada.

Now to the reports:

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431. Phone: 612-888-0816

6/5 Es	1354 91.5 KIPK NM Albuquerque, classical mx	6/14 Es	1126 103.5 WEZL SC Charleston, rock music
6/8 Es	1730 89.7 KGBH MA Boston	1128 102.5 WKTM SC Charleston	1130 100.1 WSCQ SC West Columbia
	1731 90.3 WAMC NY Albany	1400 91.3 WLTR SC Columbia, classical music	1600 94.1 WTCC GA Savannah, CBS news
	1739 90.7 WTCC MA Springfield, NY, temp. ID, r	1600 95.5 WSGF GA Savannah, rock, FM-95	1610 94.3 WSWT GA Sandersville, Sentury-94 NX
	1742 92.9 WBOS MA Brookline, music on SCA	1615 88.9 WMEM TN Chattanooga, gospel music	1620 94.9 WPCH GA Atlanta, MoR
	1745 99.1 WPLM MA Plymouth, MoR, mx on SCA	1624 92.1 WBLR SC Batesburg, rock, mx of SCA	1630 107.3 WJEE FL Jacksonville, MoR
	1753 98.3 WHAI MA Greenfield, baseball game	1630 102.5 WLTE GA Waycross, country music	1647 98.1 WQHL FL Live Oak, MoR
	1756 101.7 WLYN MA Lynn, country music	1649 98.3 WFAV GA Cordale, country music	1700 101.1 WAFT GA Valdosta, gospel music
	1757 100.1 WMBE MA N. Adams, MoR, mx on SCA	1708 92.1 WBTR GA Carrollton, rock	1720 97.7 WPRU GA Americus, Braves baseball
	1804 91.5 WJUL MA Lowell	1800 91.5 WFUS FL Tallahassee	1830 95.5 WTVY AL Dothan, country music
	1811 92.3 WPRO RI Providence, r, FM-92, PRO-FM	1835 99.7 WOOF AL Dothan, k, Mutual NX, mx SCA	1840 92.3 WKLH AL Montgomery, rock, mx on SCA
	1824 88.9 WERS MA Boston, progressive	6/20 Es	1930 92.9 KSPZ CO Colorado Springs, rock
	1845 96.7 WTSA VT Brattleboro, MoR	1959 88.9 WMBE TN Chattanooga	2014 94.9 WPCH GA Atlanta
	1900 90.9 WUHY PA Philadelphia	6/21 Tr	1700 98.3 KEMF IA Emmetsburg, MoR, UPI news
	1900 96.1 WSRB MA Worcester, MoR	6/21 Es	1715 92.3 WDBO FL Orlando, MoR, music on SCA
6/9 Es	1608 106.7 KAZY CO Denver, rock and ads	1746 93.3 WFLA FL Tampa, MoR, music on SCA	1800 107.3 WWBA FL St. Petersburg, non-ID "BAY"
	1610 94.9 KAIR AZ Tucson, MoR	1810 104.7 WRBQ FL Tampa, Q-105, rock	1830 91.5 WPRK FL Winter Park, classical mx
	1650 92.7 KGLS CO Glenwood Springs,	6/25 Es	2102 92.3 KREX CO Grand Junction, MoR
	1723 94.9 KROE WY Sheridan, r, CBS, FM-94, new state for me.	2137 92.3 KRST NM Albuquerque, rock	2145 94.9 KBRF UT Cedar City, MoR
	1730 98.9 KANR MT Great Falls, MoR		
	1748 89.1 KUFM MT Missoula, news		
6/12 Es	1030 92.9 WYZZ PA Wilkes-Barre, Mutual news		
	1038 89.5 WITF PA Hershey, classical music		
	1629 95.5 KRFM AZ Phoenix, MoR		
	1632 97.9 KUED AZ Phoenix		
	1659 91.5 KMCB AZ Phoenix		
	1707 93.3 KDKB AZ Mesa, rock music		
	1829 88.9 KBYU UT Provo, classical music		
	1845 94.9 KSIH ID Pocatello, UPI sports, mx SCA		
Error on one of last month's stations: KETR Commerce, TX should be 88.9 (was listed as 89.9 by a slip of the finger). New stations underlined.			

Rod O'Connor - P.O. Box 72 - Southwest Harbor, ME 04679 (EDT)

5/29 Tr	2230 CHEFX 101.9 NS Halifax, dir. to no.?(250)	6/11 Es	1130 WJMT 93.5 WI Merrill, Trinity Luth. Ch.
	2235 CBH 102.7 NS Halifax, QRMing WGAN	1132 WAYL 93.7 MN Minn-St. Paul, beaut. whale	1134 WSPST 97.9 WI Stevens Point, (1150)
6/6 Es	2000 KNWS 101.9 IA Waterloo, "good mx radio"	1135 KDWV 101.3 MN Minn-St. Paul, (1250)	1140 KCLD 104.7 MN St. Cloud, (1180)
	2005 KSEZ 97.9 IA Sioux City, (1375)*	1141 KSTP 94.5 MN Minn-St. Paul, (1250)	6/19 Es
	2007 KKEZ 94.5 IA Fort Dodge, (1265)*	? WDBO 92.3 FL Orlando, EL, (1300)	? WJAX 95.1 & WRTZ 96.1 both FL Jacksonville
	* (Please note corrected distances, Rod - fjm)		
	2230 KAOH? 94.9 MN Duluth, (1400)		

FM-DX NORTH

August 1977

Paul D. Traska - 64 Weaver Ave. - Buffalo, NY 14206

5/14 Tr	1530 WFEM	92.1 PA	Ellwood City	6/14 Es	1330 KETR	88.9 TX	Commerce
5/19	1521 WDOQ	102.1 OH	Cleveland		1400 KCHU	90.9 TX	Dallas
	1530 WLVU	99.9 PA	Erie		1506 KSUC	88.5 TX	Keene
	1535 WDMT	107.9 OH	Cleveland		1530 KTLK	100.3 TX	Dallas
	1555 WMMS	100.7 OH	Cleveland		1345 KNTU	88.5 TX	Denton
	1615 WCCK	103.7 PA	Erie		1405 KSOZ	91.7 MO	Lookout Pt.
	1700 WVCC	101.7 PA	Linesville		1724 KUAD	99.1 CO	Windsor
	1730 WKDD	96.5 OH	Akron, ex-WCUE		1759 KKEG	92.1 AR	Fayetteville
	2215 WERG	89.1 PA	Erie		1814 KPNB	101.9 OK	Oklahoma City
5/21	0245 CKLA	106.1 ON	Guelph		1830 KOSU	91.7 OK	Stillwater
5/23	1420 WMHE	92.5 OH	Toledo		1901 Unid	101.5	Ided as "K-101"
5/25	1030 WMMU	90.1 MI	Marquette	6/20	1645 Unid	89.1	sounded like ZEM
	1100 WCMU	89.5 MI	Mt. Pleasant		2140 KWGS	89.5 OK	Tulsa
	1107 WNIC	100.3 MI	Dearborn	6/21	1146 KWAS	101.9 TX	Amarillo
5/27	0015 WGCL	98.5 OH	Cleveland		1158 KOEC	90.7 MO	Joplin
Gw	1255 CFPM	107.1 ON	Toronto (CILQ-fjn)	6/22	1130 KOSI	101.1 CO	Denver
Tr	2345 WRBO	97.1 OH	Ashtabula		1214 KLIR	100.3 CO	Denver
5/30 Tr	0110 CHECK	107.5 ON	Kingston	6/30	1830 KERA	90.1 TX	Dallas
	0130 CKLK	98.3 ON	Kingston		2130 WPCS	89.3 FL	Pensacola
5/31	0300 WDET	101.9 MI	Detroit	7/1 Gw	1145 CKO	89.1 ON	Toronto (new)
	0310 WDRQ	93.1 MI	Detroit	7/2 Es	1900 WUSF	89.7 FL	Tampa
	1000 WRIF	101.1 MI	Detroit	7/3	1320 WTSU	90.1 AL	Troy
	1100 WLDN	95.5 MI	Detroit	Tr	1914 WCAR	92.3 MI	Detroit
6/5 Es	0955 KICV	90.5 MO	Maryville	Es	2030 KDBS	100.3 LA	Alexandria
	0956 KCFR	90.1 CO	Denver	7/4	1200 KGRE	92.3 CO	Greeley
6/6	1030 ZEM	89.1 MN	Hamilton		1314 KVTT	91.7 TX	Dallas
	1130 KCSC	90.1 OK	Edmond		1800 KPAT	97.3 SD	Sioux Falls
	1800 KSJR	90.1 MN	Collegeville	7/5 Tr	0000 WNCV	97.5 NY	Watertown
	1811 WOI	90.1 IA	Ames		0200 CKMP	94.3 PQ	Montreal
	1948 KUSD	89.7 SD	Vermillion		1200 WCNY	91.3 NY	Syracuse
	2028 KMUS	89.1 KS	Wichita	Total:	149, States:	20+DC, Prov.:	2, For.:
	2058 KEYA	88.5 ND	Belcourt			Educ.:	62. All above sta. new to log.

Thus far the E-skip has been fair; it hasn't covered up any of my locals yet, or stayed very long into FM. Too bad the E-skip didn't get into FM on 6/9 when I had double hop on TV. This report with 60 new ones, is pushing the log fast. 73's -- Paul.

Bill Dulmage - R.R. 3 - Colborne, Ontario KOK 150

5/17	2133 WEZO	101.3 NY	Rochester	5/19	2230 WWOL	104.1 NY	Buffalo
	2200 WBIV	107.7 NY	Wethersfield		2300 CFCA	105.3 ON	Kitchener
	2221 WMJQ	92.5 NY	Rochester, ex-WNWX	5/20	0107 CBCK	107.5 ON	Kingston
	2300 WNCQ	97.5 NY	Watertown	5/22	1258 WHFM	98.9 NY	Rochester
	2305 CHSC	105.7 ON	St. Catharines		0107 CBL	94.1 ON	Toronto
5/19	2210 WPHD	103.3 NY	Buffalo, ex-WYSL		1355 CILQ	107.1 ON	Toronto

Veries received: WBIV-v/1, WMJQ-v/1, WNCQ-v/1, CHSC-v/c & v/1, and CBL-v/c (Tom Yingling would very much appreciate receiving details of these verifications for his QSL Corner column. Glad to receive your report, Bill --- good luck in your FM DXing.-fjn)

Roger Winsor - 1030 S. Colorado - Hobart, IN 46342

Hello from skip-less NW Indiana. Es has been in, but only on the low channels, only reach FM really good on 6/6. Other days WMCU 89.7/WUSF combination. Total now 723 in 28 states, Canada, Mexico, and Cuba. Hopefully July will make up for June. New stations in since last time: WDUZ-98.5 now on w/100kw MoR easy WI catch now, hrd 6/3. 6/6-Es to CO; KRDQ-95.1 most consistent from 2000-2130 opening; KKFM-96.5 p w/ads; KDJQ-97.9 rock w/WSDM; KDMN-98.5 Denver Rock-98 ID; KVOD-99.5 CO classics nulling WEFM classics; KWBI-91.1 Morrison (-250' tower) in weakly, but Ided w/Evening Song pgs; KSPZ-92.9 CO, Rocky Mtn rock at 2100 ID; KVMN-98.9 also of Colorado Springs w/MoR next to WFTM sooo clearly, yet -61' tower; KPUB-99.9 Pueblo, ID & wx; KLIR-100.3 Denver MoR u/WLOO MoR; KZLO-100.7 Pueblo w/lcl ads, A1 NK; KYKX-95.7 (Tent.) w/rock; and KPIK-93.9 FM-94 ID u/superpest WLAK. Es got into FM on 6/20 but just the usual FL stuff: WVFM-94.1; WMCU-89.7; WCIE-91.3; WGYL-93.5 Vero Beach; WDNJ-94.5 Daytona Beach; WINZ-94.9 Miami; WOVV-95.5 completely covering WMET w/lcl ads, rock mx; also hrd WRMF-98.3 Titusville, MUF to 100.7 or so. I was at a great disadvantage with that opening. I had been at the beach that afternoon and if you know how hard to DX it is with great amounts of beer in your stomach, well.....73, Roger.

Remember to send your UNIDs to Frank Aden, Jr. for inclusion in his C.C.I. (Unidentified DX) Column, if there is enough information for other DXers to solve them -- fjn.

Fred McCormack - Des Lacs, ND 58733 (CDT)

Eq: Receiver - Heathkit AR-1500. Antenna - JFD 10-ament log-periodic type.

5/13 Tr

1300 KMRS 95.7 MN Morris

5/14 Tr

0100 96.9 SK Regina, CBC-FM \$ (205)

6/4 Es

1958 KSNS 96.1 LA Lake Charles
 2010 KDEH 97.7 LA Natchitoches,(1220)
 2012 KDEA 99.1 LA New Iberia,FM99, (1360)
 2019 WCFM 92.3 LA Laplace, country, (1385)
 2022 KFRA 105.5 LA Franklin, rock, (1380)
 2030 KHOM 104.1 LA Houma, (1410)
 2032 WQXY 100.7 LA Baton Rouge
 2100 KVTI 91.7 TX Dallas, (1100)
 2105 KRMD 101.1 LA Shreveport, NEC
 2102 KCHU 90.9 TX Dallas, bi-lingual (1100)
 2112 KJVC 92.7 LA Mansfield, (1195)

6/5 Es

0845 WSEL 106.5 NC Bridgeton, super SFL(1545)
 0855 WMPR 88.1 SC Sumpter
 1002 WINZ 94.9 FL Miami Beach,(1935)(11-fjn)
 1147 WHTB 92.7 AL Talladega, \$93, (1300)
 1200 WBBM 90.3 AL Birmingham, NPR, (1270)
 1205 WQEZ 96.5 AL Birmingham, (1270)
 1307 KTDY 99.9 LA Lafayette, (1345)
 1331 KAMU 90.3 TX College Station, (1345)
 1334 KMMK 95.3 TX McKinney, rock
 1343 KCWM 95.1 TX Victoria, MoR
 1358 KCBI 89.3 TX Dallas, (1100)
 1400 KLTD 99.3 TX Lampasas
 1402 KMCS 98.3 TX Gatesville
 1403 KTXN 98.7 TX Victoria
 1416 KPLE 104.9 TX Temple
 1418 KWKQ 107.1 TX Graham, Easy Listening mx
 1424 KTON 106.3 TX Belton
 1429 KIKS 93.3 TX Killeen, rock music
 1443 KLUR 99.9 TX Wichita Falls, country mx

6/6 Es

0843 WCUP 100.3 GA Tifton, \$100, (1495)
 0844 WZOT 107.1 GA Rockmart, (1300)
 0856 WULA 92.7 AL Bufaula, AM/FM, (1420)
 0935 WSSR 91.9 IL Springfield, (830)
 1000 KWSJ 94.9 TX Arlington, gospel
 1003 KLLS 94.3 OK Okmulgee, (920)
 1010 KCRV 103.1 MO Caruthersville, (1030)
 1031 KTYL 93.1 TX Tyler
 1032 KSFA 92.1 TX Nacogdoches
 1115 KWEW 93.5 OK Altus, (950)
 1145 KFMN 99.3 TX Abilene, rock
 1215 KCOT 104.7 TX Lamesa
 1217 KWMJ 103.3 TX Midland, Easy Listening
 1554 WMET 88.3 OH Marietta, rock music
 1556 WKEZ 95.7 VA Norfolk
 1603 WWST 104.5 OH Wooster, (1090)

Only new loggings are listed since they are representative of all the skip openings noted. A very good weekend and a few loggings on 6/25 produced 88 new Es loggings. 73, Fred.

Joseph Smith, Jr. - 196 Ackley Avenue - Johnson City, NY 13790 (Times in GMT)

Eq: McIntosh MR 78, CM 4408 @46' (-492HAAT), 75 ohm lead-in, U-100 rotor, No traps/boost.

6/14 Es 1714 KITM ?? TX Dallas wx
 1720 KREB 95.5 OK Sallisaw
 1740 KVID 92.9 TX Wichita Falls
 1743 KWEN 95.5 OK Tulsa
 1751 KXXY 96.1 OK Oklahoma City

6/6 Es (continued)

1604 WRKY 103.5 OH Steubenville, (1165)
 1604 WRKL 102.1 VA Richmond, XL102, (1415)
 1614 WFOG 92.9 VA Suffolk
 1617 WPLZ 99.3 VA Petersburg, "\$99 Please"
 1619 WVHR 101.3 VA Hampton
 1630 WGBH 89.7 MA Boston, (1525)
 1745 WIFI 92.5 PA Philadelphia, "YI-FI"(1420)
 1746 WMLP 100.9 PA Milton
 1930 WGBT 101.3 PA Scranton
 1934 WNYE 91.5 NY NYC, (1445)
 1938 WRVR 106.7 NY NYC
 1940 WQSB 105.1 AL Albertville, (1245)
 1953 WENN 107.7 AL Birmingham, rock, (1270)
 2000 WERC 106.9 AL Birmingham, rock
 2002 WVOK 99.5 AL Birmingham, rock, K-99
 2005 WCIL 101.5 IL Carbonville, (930)
 2014 WNDA 95.1 AL Huntsville, (1210)
 2016 WHRW 98.1 AL Fayette, rock, (1230)
 2022 WQEN 103.7 AL Gadsden, Q-104, (1270)
 2028 WNJC 90.1 MS Senatobia, NPR
 2033 WJOF 104.3 AL Athens, country, (1190)
 2037 WVST 96.7 TN Bolivar
 2042 WKRA 92.7 MS Holly Springs
 2043 WQDD 104.5 TN Memphis, Quad-104
 2045 KFBN 107.9 AR Jonesboro, K-Fine, (1020)
 2057 WKBB 100.9 MS West Point
 2100 WKNO 91.1 TN Memphis
 2103 KLRE 90.5 AR Little Rock, (1050)
 2113 WKMX 106.7 AL Enterprise, rock, (1430)
 2118 WSJC 107.5 MS Magee, country music
 2119 WDEB 105.3 GA Macon, country music(1415)
 2125 KREB 106.1 LA Monroe, country music
 2132 WKOZ 105.1 MS Kosciusko, country music
 2138 WDMS 100.7 MS Greenville
 2147 WLIN 95.5 MS Jackson, (1250)
 2159 WLAG 104.1 GA LaGrange, country, (1355)
 2202 KTRM 99.9 NM Clovis, rock
 2243 WRFS 106.1 AL Alexandria City, (1330)

6/16 Tr

2345 CBWV 97.9 MB Brandon, CBC AM, (130)

6/17 Tr

0005 105.3 MB Baldy Mtn, CBC AM, (245)

6/24 Tr

1800 KNDR 104.9 ND Mandan, \$ Easy Listening

6/25 Tr

0105 KQAG 100.3 SD Rapid City, KG100, rock

6/25 Es

2135 WAFB 98.1 LA Baton Rouge, rock
 2207 KANW 89.1 NM Albuquerque, (945)
 2210 KMUL 103.1 TX Muleshoe, rock
 2230 XHEM 103.5 CH Ciudad Juarez, \$103,(1180)

As of July 1st I received 433 stations and hope July will have more Es than June had. Good DX to all -- JSJ.

Michael L. Hogan - 9224 Cottage Grove Ave. - Highland, IN 46322



Eqt: Panasonic FR-877, Stereo Probe ant. @ 15 ft. w/hand rotor.
 Reporting period: 6/14/77 to 7/3/77. Phone: (219) 924-2361
 Total stations: 165, with 7 by Es. 49 new stations were logged in the reporting period. Since 1/8/77 94 new stations have been logged. Log totals also include 35 in the Educ. Band, 10 states, and 1 province.
 By the way, a word on my equipment: The Panasonic RF0877 was purchased for less than \$70. I am beginning to believe that patience and persistence are the key to successful FM DXing, and not necessarily expensive equipment. I'm very sure the Antenna that I'm using is a big factor; but knowing when, from where, and how to log those elusive stations are the key ingredients.

Out of the 100 FM channels, only 4 show an absence of a logging in my log. I Believe that dollar for dollar my set-up can challenge many other installations. Well-enough for my soap-box. Here are my loggings this reporting period;

- 6/14
 1128 WHIO 99.1 OH Dayton, Zephyr spot
 2100 WRSQ 104.9 IL Geneseo, Q-105 ID
 6/15
 0600 WMRI 106.9 IN Marion, NX w/Ken Walker
 0600 WDAO 107.7 OH Dayton, Music City Radio
 0618 KRVR 106.5 IA Davenport, NW Bell spot
 1920 WAAG 94.9 IL Galesburg, wx forecast
 2000 WISU 89.7 IN Terre Haute, ISU B'cast Srv
 2100 WCBU 89.9 IL Peoria, concert hall
 2141 WILQ 99.7 IN Frankfort, news
 6/16
 0700 WQWQ 104.5 MI Muskegon, Austin Office S.
 0800 WNAM 92.9 MI Cadillac, ex-WKJF, ad
 0917 WOLL 95.3 IL Ottawa, Ottawa Nat. Bank
 6/17
 0430 WMAD 106.3 WI Madison, k, lcl WLNRR off
 6/18
 1858 WAWA 102.1 WI Milwaukee, R, WAWA jingle
 1958 WMUK 102.1 MI Kalamazoo, blue grassmad
 -----73's and good DX, Michael.

- 6/19
 1059 WGER 102.5 MI Bay City-Saginaw, ID
 1158 WNLW 101.3 MI Grand Rapids, "Mellow Music FM 101"
 6/21 Es
 1925 WFUZ 93.7 FL Ocala, wx from WFUX wx sta.
 6/21 Gw
 2135 WGFA 94.1 IL Watseka, Watseka tire ctr
 2059 WTCA 94.3 IN Plymouth, "WTCA NX center"
 6/22
 0700 WQPM 93.3 WI Milwaukee, ID
 6/22 Es
 1100 KWKR 93.7 SD Winner, lcl & reg. NX
 6/22 Gw
 2155 WFAW 107.3 WI Port Atkinson, "Adult sta."
 2208 KIMI 105.3 IA Dubuque, NX, wx, sports
 7/3 Es
 1932 WMWD 92.1 GA Dawson, Dawson shopping ctr
 1936 WFDK 93.3 GA Manchester, mystery contest
 1939 WIPE 94.3 GA Americus, freedom spot
 1940 WTAN 95.7 FL Clearwater, Tampa Bay wx

Ed Brindle - 1220 College Drive - Latrobe, PA 15650 (EDT)

Eqt: Ancient 10 tube Westinghouse AM-FM, VU-90 & rotor at 20 ft. AAT. All loggings New.

- 8/16 Gw: 19 locals logged in or around Pitts-
 (1976) burgh., at distances from 10 to 65 miles from this QTH. Now DX:
 8/16 Tr 1902 WYSU 88.5 OH Youngstown
 1930 WMRT 88.3 OH Marietta
 2000 WSQM 105.1 OH Salem
 2029 WAJR 101.9 WV Morgentown
 2101 WCRF 103.3 OH Cleveland
 2155 WHOT 101.1 OH Youngstown
 2200 WOUB 91.3 OH Athens
 2250 WGCL 98.5 OH Cleveland
 2351 WELA 104.5 OH East Liverpool
 2355 WFGM 97.9 WV Fairmont
 8/17 0001 WRGT 106.5 WV Clarksburg
 0003 WKBN 98.9 OH Youngstown
 0010 WDBN 94.9 OH Medina
 0030 WQAL 104.1 OH Cleveland
 If cash permits to buy new eqt, I'll get back into FM-DX. 73's - Ed. WDX3IKH, KATZ6972.
- 8/17 Tr 0033 WQMP 100.5 OH Bellaire
 0150 WAUP 88.1 OH Akron
 0200 WKSU 89.7 OH Kent
 Gw 1500 WTKS 106.7 PA Beaver Falls
 Tr 2058 WKLC 105.1 WV St. Albans
 8/21 0320 CJOM 88.7 ON Windsor
 0346 WIFC 95.5 WI Wausau
 0400 WKDD 96.5 OH Akron
 0455 WIOT 104.7 OH Toledo, (250)
 0457 WQML 104.3 MI Detroit, (260)
 0501 WNUZ 103.5 MI Detroit
 0514 WDRQ 93.1 MI Detroit
 8/22 1203 WCOL 92.3 OH Columbus
 1220 WENS 97.1 OH Columbus
 8/23 0645 WTRF 107.5 WV Wheeling
 Gw 1605 WPME 105.5 PA Punxsutawney
 Total: 50; 88-92: 9; US: 5; Cnt: 1; TP: 6

Peter Sawatzky - 244 Neilson Ave. - Waterloo, Ont. N2J 2M3 (EDT)

Receiver: Heathkit AJ-15; Antenna: Delhi 1047 30' AGL. New Loggings underlined.

- 4/17 Gw
 1022 CKNX 101.7 ON Wingham, "Preview 102", (50)
 4/19 MS
WEPR 90.1 SC Greenville, (605) ID logged on MS tape control unit between 0800-2000
 4/20 Tr
WTAN 90.1 IN Indianapolis, (380) ID (children's program logged on MS tape control unit between 0800 and 1800)
- 5/25 Tr
 0744 WMNU 90.1 MI Marquette, (400)
 0806 WJPD 92.3 MI Ishpeming, (410)
 5/30 Tr 2345 WKSU 99.5 OH Cleveland, ex-WNCR
 Es 1806 KROA 95.7 NE Grand Island, (925)
 1811 KFGQ 99.3 IA Boone, (680), NX, wx
 2035 KIEC 93.5 NE Ogallala, (1085)
 2049 KIMN 98.5 CO Denver, (1270), r

(continued next page)

Peter Sawatzky report - continued.

5/23 Tr 1005 WSNB 88.9 IN Notre Dams, (315)
 Gw 1135 CILQ 107.1 ON Toronto, Q-107, r
 Gw 1202 CHAY 93.1 ON Barrie, new sta. (75)
 5/31 Tr WSAE 89.3 MI Spring Arbor (215)
 (logged on MS tape control 0800-1800)

6/5 Es

1010 KICT 95.1 KS Wichita (955)
 1014 KWKI 93.3 MO Kansas City (785) wx, ID
 1020 KJCK 94.5 KS Jctn City (890) prev. MS
 1030 KOEZ 92.3 KS Newton (945) wx, ID
 1034 KWNS 93.1 KS Pratt (1025)
 1036 KFLA 94.5 KS Scott City (1100) ID
 1048 KYEZ 93.7 KS Salina (925) lcl wx, ads
 1105 KUPK 97.3 KS Garden City (1105) NX, wx

6/6 Es

1028 WUSF 89.7 FL Tampa (1070)
 1030 WFLA 93.3 FL Tampa
 1034 WFUZ 93.7 FL Ocala (985)
 1046 WPAP 92.5 FL Panama City (955)
 1105 KEBC 94.7 OK Oklahoma City (1045)
 1107 KBID 92.9 TX Wichita Falls (1165)
 1625 WINZ 94.9 FL Miami (1205)
 1659 WFAM 91.1 FL Jacksonville (910) ID
 1700 KTEC 93.5 NE Ogallala (1185)
 1701 WRNS 95.1 NC Kinston (585) *Help wanted*
 1703 WGEA 93.5 AL Geneva (900)
 1711 KBRX 92.7 NE O'Neill (915)
 1718 WHER 103.7 MS Hattiesburg (965)
 1732 WPXI 95.1 SC Charleston (735)
 1736 CBAF 94.3 NB Moncton (790) FFC, ID

(Couldn't find this station listed, taped
 ID sounds like CBAF or CBIF -- assume
 CBAF-FM, in Moncton)

1759 KWBE 92.9 NE Beatrice (855) ID, NX
 1802 CBIM 93.5 PQ Iles de la Madeleine (945)
 (This is probably the only station that I
 have ever accepted into my logbook with-
 out some positive ID from programming.
 Leads were the antenna bearing, FFC prog,
 & other skip (CHSJ-4 & CBAF-94.3) Accord-
 ing to B'e'tg Yrbook 1976, CBIM repeats
 CBGA Matane PQ.)

1805 WGYL 93.5 FL Vero Beach (1080)
 1807 WMCU 89.7 FL Miami (1205)
 1808 WHP 96.9 ME Presque Isle (645) rock
 1814 KICS 93.5 NE Hastings (925)
 1815 KEZO 92.3 NE Omaha (795) local ads, ID
 1822 KROA 95.7 NE Grand Island (925)
 1824 WAlA 97.3 FL Miami (1205)
 1829 WVM 94.1 FL Lakeland (1065) o/lcl CBL
 1835 WKOS 100.3 FL Plantation Key (1280)
 1842 WMJX 96.3 FL Miami (1205)
 1845 WEEJ 100.1 FL Port Charlotte (1155)
 1846 WHEM 101.9 FL Fort Myers (1160)
 1848 WORJ 107.7 FL Mount Dara (1015)
 1850 WCKO 102.7 FL Pompano Beach (1190)
 1850 WCKS 101.1 FL Cocoa Beach (1035)
 1853 WPCV 97.5 FL Winter Haven (1065)
 1858 WVCU 94.5 FL Naples (1180) ID, NX
 1858 WCCF 92.7 FL Punta Gorda (1145)

Of note were the opening of the 6th of June
 which seemed to be east, west and south
 simultaneously, covering 18 states and prov-
 inces, and the no. Manitoba opening on 6/9.

73 - - Pete

6/6 Es (continued)

1922 WVOH 93.5 GA Hazlehurst (810) wx, ID, k
 1941 WGOV 92.9 GA Valdosta (885), ID, k
 1946 KYKP 93.3 TX Port Arthur (1180)
 1946 KLEF 94.5 TX Houston (1240)
 1957 KIEL 95.1 TX Beaumont (1175) wx, ID
 2000 KKAJ 95.7 OK Ardmore (1100)
 2014 KWYR 93.7 SD Winner (965)
 2017 KPAT 97.3 SD Sioux Falls (810)
 2018 WCOV 97.1 MI Sparta (515) short skip
 2028 KDCM 94.3 MN Windom (725) ID, severe wx
 2040 KUPK 97.3 KS Garden City (1105)
 2108 KABI 98.3 KS Abilene (910) local BB
 2117 KJLS 103.3 KS Hays (1025) lcl ad, k
 2144 KCGW 95.7 MT Scobey (1240) k, ID
 2231 KCFR 90.1 CO Denver (1270)
 2327 KPIK 93.9 CO Colorado Springs (1285) ads
 2334 KTIQ 102.7 CO Manitou Springs (1290) rock
 2336 KSPZ 92.9 CO Colorado Springs, ex-KVOR
 2346 KVMN 98.9 CO Pueblo(1285) jazz, ID
 2358 KGRE 92.3 CO Greeley (1240) ID

6/8 Es

2042 WCCF 92.7 FL Punta Gorda (1145)

6/9 Es

1730 KBVL 94.7 CO Boulder (1280) lcl prog.
 1735 KTMN 98.5 CO Denver (1270)
 1737 KSPZ 92.9 CO Colorado Springs (1285)
 1740 KKKX 95.7 Denver (1270) ID, lcl ads
 1755 CBWH 101.5 MB Cr. Rapids, lcl road report
 1250 CBWP 94.5 MB Leaf Rapids (1250) lcl events

6/14 Es

1717 KKKX 95.7 CO Denver (1270)
 1719 KTMN 98.5 CO Denver (1270)
 1724 KPIK 93.9 CO Colorado Springs (1285)
 1726 KBVL 94.7 CO Boulder (1280)
 1727 KPKZ 96.1 CO Greeley (1240) ID, lcl ad
 1735 KXXX 100.3 KS Colby (1090)
 1745 KVMN 98.9 CO Pueblo (1285)
 1752 KPRJ 97.1 TX Fort Worth (1170) ex-KWXI
 1754 KNEB 94.1 NE Scottsbluff (1170) o/CBL
 1757 KTIQ 102.7 CO Manitou Springs (1290)
 1758 KAZY 106.7 CO Denver (1270) ID, rock
 1800 KVIL 103.7 TX Dallas (1130)
 1801 KOAQ 103.5 CO Denver (1270) "Q-103, KOAQ"
 1803 KBRU 101.7 CO Fort Morgan (1205) lcl NX
 1805 KZEW 97.9 TX Dallas (1130)
 1806 KKAJ 95.7 OK Ardmore (1100)
 1807 KGAF 94.5 TX Gainesville (1105)
 1809 KTEB 93.3 OK Ada (1045)
 1812 KLLS 94.3 OK Okmulgee (970) lcl NX, ID
 1813 KAWY 94.5 WY Casper (1280)
 1815 KRNW 97.3 CO Boulder (1280) lcl ads, wx
 1818 KLOV 102.3 CO Loveland (1265) lcl ads
 1819 KLOZ 102.9 WY Laramie (1280) lcl ads, ID
 1828 KSCU 88.3 TX Keene (1190)
 1833 KLSR 93.7 AR Fort Smith (920) ID
 1844 KWYR 93.7 SD Winner (965)
 1844 KBID 92.9 TX Wichita Falls (1165)
 1846 KRLG 98.1 OK Lawton (1125) o/CHFI
 1847 KLUR 99.9 TX Wichita Falls (1165) o/CKFM
 1848 KNTD 103.3 TX Wichita Falls (1165) lcl NX
 2020 KSCS 96.3 TX Fort Worth (1170)
 2032 KESS 93.9 TX Fort Worth (1170) lcl annt SS
 2036 KFMN 99.3 TX Abilene (1275)
 2055 KARC 92.9 OK Tulsa (955) prev. by MS

W.T. Ryan - 651 Battery Street - Victoria, B.C.

4/27	Gw	0000	<u>KUPS</u>	90.1	WA Tacoma, rock,10w	6/25	Rx	2304	<u>XHIS</u>	90.3	BCN Tijuana	
6/4	Es	1630	<u>KALJ</u>	95.1	AZ Yuma, \$, EL			2306	<u>KDKB?</u>	93.3	AZ Mesa, rock	
								2307	<u>KPB5?</u>	89.5	CA San Diego, jazz	
6/8								2310	<u>KEGR?</u>	93.3	DA El Bajon, gospel	
								2312	<u>XHIS</u>	90.3	BCN Tijuana, \$ rock	
								2320	<u>KIQQ</u>	100.3	CA Los Angeles, rock	
								2330	<u>KLON</u>	88.1	CA Long Beach	
6/9								2348	<u>KVIM?</u>	93.7	CA Coachella, SS	
											(latest FM ever) (6/25 + few days has historically produced late nite Es - fjn)	
6/10								1955	<u>KBHL</u>	95.3	NE Lincoln	
								2000	<u>KSRD</u>	96.9	NE Seward	
								2002	<u>KXCV</u>	90.5	MO Maryville (1500)	
6/11								2004	<u>KCUR</u>	89.3	MO Kansas City (1565!)	
								2010	<u>KANU</u>	91.5	KS Lawrence	
								2015	<u>KAWL</u>	104.9	NE York, s/off	
								2020	<u>KJLS</u>	103.3	KS Hays	
6/12	Gw	1104	<u>KGRG</u>	89.9	WA Auburn, 10w.,r(90)			2021	<u>KJCK</u>	94.5	KS Jctn City, rock	
	Es	1357	<u>KRST</u>	92.3	NM Albuq., prog. rock			2026	<u>KARD</u>	107.3	KS Wichita, \$, EL	
								2029	<u>KOEZ</u>	92.3	KS Newton, \$, EL	
6/16								2030	<u>KBHL</u>	95.3	NE Lincoln	
								2043	<u>KICT</u>	95.1	KS Wichita, country	
6/17								2200	<u>KAWY</u>	94.5	WY Casper, \$ rock	
								2211	<u>KCOL</u>	107.9	CO Ft. Collins	
								6/29	1333	<u>CKY</u>	92.1	MB Winnipeg, \$ MoR
6/24								7/1	1838	<u>KSEL</u>	93.7	TX Lubbock, \$ k (1500)
									2000	<u>KPFM</u>	99.5	AZ Tucson, Baseball
								7/4	1841	<u>KBYU</u>	88.9	UT Provo
									1901	<u>KRAZ</u>	96.9	NM Farmington, \$ rock

DX equipment consists of a Scott 342-C receiver and a 6-element Yagi antenna in the attic pointed at Seattle. Wishing you good DX -- W.T. Ryan. (Glad to get your report from the Great Northwest. I hope you, and others in your neck of the woods will report often - fjn)

Fred Nordquist - 7945 Boxford Road - Clay, NY 13041 (EDT)

Eqpt: RX - Heathkit AJ-15, Ant: JFD LPL-FM10A at 45'AGL. New underlined. Totals: 922												
6/19	Es	2315	No IDs - PTA Texas			7/3	Es	1347	<u>WALT</u>	97.1	MS Meridian, rock	
6/20	Es	2111	<u>KCHU</u>	90.9	TX Dallas, rock			1356	<u>WHJT</u>	93.5	MS Clinton, rock	
								1859	<u>KUHF</u>	88.7	TX Houston, "FM-88"	
								1917	<u>KOKE</u>	95.5	TX Austn (1475)	
6/21								1921	<u>WUSF</u>	89.7	FL St. Petersburg, c	
								1923	<u>KWHJ</u>	93.5	OK Altus, MoR	
								1950	<u>WEJL</u>	100.1	FL Port Charlotte,\$100	
								2020	<u>KILT</u>	100.3	TX Houston, lcl annts	
								2030	<u>KSIX</u>	93.9	TX Corpus Christi, KETV-10 ad (1585)	
								2038	<u>KDBH</u>	97.7	LA Natchitoches, k,TC	
								2052	<u>KEBC</u>	94.7	OK Oklahoma City	
								2130	<u>WPCS</u>	89.3	FL Pensacola, relig.	
								AS 2135	<u>WEAA</u>	88.9	MD Baltimore, ID,annts	
								7/4	Es 1247	<u>KPMO</u>	93.5	MN Benson, k, mono
									1325	<u>KAKE</u>	91.7	MN Grand Rapids, wx
									1328	<u>KTFN</u>	94.7	ND Grand Forks, m,FM95
									1331	<u>KFJM</u>	89.3	ND Grand Forks,lcl talk
									1333	<u>KGRG</u>	96.7	MN Grand Rapids,KX-96
6/27	Es	1840	no IDs - PTA: Kansas			Gw	1401	<u>CKO</u>	99.1	ON Toronto, ID,NX		
6/30						Es	1652	<u>KICS</u>	93.5	NE Hastings, rock,SID		
								1718	<u>KLGA</u>	92.7	IA Algona, lcl ads	
								1727	<u>KHUB</u>	105.5	NE Fremont,Bang-Bang; ID	
								1738	<u>KJAN</u>	103.7	IA Atlantic, NX	
								1806	<u>KLSS</u>	106.1	IA Mason City, SID	
						7/6	1851	<u>WLHL</u>	92.3	AL Montgomery, rock		
						7/7	1746	<u>KEBC</u>	93.5	NE Ogallala, MoR		
								1830	<u>ZEM</u>	89.1	EM Hamilton, Zed-B-M	
								2116	<u>WKEL</u>	93.5	TN Covington, ID	
								2129	<u>WABE</u>	90.1	GA Atlanta, ID cl mx	
						7/8	1939	<u>KUT</u>	90.7	TX Austin, ID		



Southern F.M.DX

Dave Cox
2704-C Briarberry Cir.
Birmingham, AL 35226
Deadlines: the 10th

AUGUST 1977

SERVING FM DXers FROM THE SOUTHEAST, SOUTHWEST, AND MEXICO

June, 1977 was a fairly good month for FM DX; though perhaps not as spectacular as some summer months of years past, June was like a breath of fresh air when compared to the DX poor spring and winter just past. Apparently the best day of Es so far this year has been June 6, although there were also several other good days in the latter part of the month, most notably the period of June 20-25.

Hank Holbrook 7211 Chestnut St., Chevy Chase MD 20015 EDT
DXing from: Fair Haven MD cottage 15 miles below Annapolis MD with Scott 310E FM tuner with Blonder-Tongue FM booster and Finco 10 element single bay FM yagi with CDE rotor not working and pointed in SW direction. Also from Sugar Loaf Mountain, MD, about 11 miles SSE of Frederick, MD with a Sony model TFM-7250 AM/FM portable with 12 transistors using the vertical rod type antenna.

Since our report in March, FM DX has been rather dull, at least up until now! Spent most weekends in May at the office (inventory time!!) a couple of trips to the bay so far in June. Some skip noted but all on TV from Chevy Chase and from Fair Haven, and then mostly horizontal bars on channels 2 & 3. Nothing as yet on FM logged on E skip this season. Logged and reported:

4-16-77 0134-0210 WWCS 106.9 MD Hagerston (80);r ex-WARK which was often heard at the cottage

5- 8-77 0527-0605 WXYV 102.7 MD Baltimore (40) ex-WCAO

Comment: Sorry to see another classical musical station bit the dust. It is said that "Only the Chosen Few Enjoy Classical Music" and I'm glad to be one of the minority!! Only sorry we can't keep the classical stations on the air.

The family had a picnic at Sugar Loaf Mountain on June 5th and while my two daughters had a dull time because of the rain, I had a ball! Before buying the cottage in 1964, I used to do some mobile DXing to get away from a poor Chevy Chase location due to images from D.C. & MD locals, most of which have their transmitters near Chevy Chase. In the 60s, FM reception was almost impossible from 0500 to 0100 (now it's impossible with more stations, more power on, and most stations on 24 hours). We used to occasionally try our hand at mobile DXing and a favorite spot was Sugar Loaf. Actually, only 11 stations heard and reported from that location, and since then, 5 have been heard at Fair Haven. Had fun on the 5th reminiscing (to myself) about the good old days and noting my first translator reception on FM:

6- 5-77 1412-1431 W276AB 103.1 MD Frederick (11) WFSI translator. Good signal but WFSI on 107.9 was almost as strong

1435-1500 W288AB 105.5 MD Braddock Heights (13) WFRE translator. Fairly good but WFRE on 99.9 was stronger. ERP, according to WFRE is about 2.3 watts!

Sugar Loaf is an interesting mountain as it stands all by itself. Reception was from the top parking lot at about 960 feet. Highest point on the mountain is about 1280 feet. In the sixties, we drove a Comet equipped with a Blaupunkt car radio, which was a pretty good DX receiver. Never did run into a skip opening while there but most distant station logged and QSLed from there was a pretty good catch in WUNC Gastonia, NC, 101.9 at 340 miles with 11kw. Heard back on 8-19-61. Always enjoyed mobile DXing in the fresh mountain air!!

Then back to Fair Haven:

6-10-77 2157-2250 WIVY 97.9 MD Baltimore (40);r ex-WBAL Another rock station.

This has to be the worst spring on record. We didn't make it out of the state of Maryland - HI!! 73s, Hank (Thanks for the report, Hank. ...dsc)

Pat Dyer 5315 Silvertip Drive, San Antonio TX 78228 CST

Equipment: Hallicrafters sx-62 with International Crystal SAX-1 preamplifier(s) with an Archer 6-element FM antenna at 20 feet with rotor.

5-17-77

Es 1340 unIDs 88-89
1401 WUMU 94.3 FL Marathon (1125) ID
1403 WINZ 94.9 FL Miami Beach (1150) ID
1405 WWML 93.9 FL Miami Beach (1150) ad
1409 WINK 93.9 FL Ft. Myers (1040);m
1420 WEDR 99.1 FL Miami (1150) ad
WMCU? 89.7 FL Miami (1150);r
1439 WFYN 92.5 FL Key West (1090) ad
1600 fade out
1702 XHNP? 89.3 Pue Puebla (735)
XEBS? 89.7 DF Mexico City (690)
1715 XHCM? 88.5 Mor Cuernavaca (735)

5-17-77 (cont.)

Es 1715 XHQK? 91.3 DF Mexico City (690)
XHM? 88.9 DF Mexico City (690);m
XEJP? 93.7 DF Mexico City (690)
1730 fade out
5-20-77
Es 1103 KILA? 95.5 NV Henderson (1040);g
1505-25 unIDs 88-94
1528 WDOC 95.5 KY Prestonsburg (1065) with area baseball
1545 WDBN? 94.9 OH Medina (1230);m
WCLV? 95.5 OH Cleveland(1250);c
WGCL? 98.5 OH Cleveland(1250);r

Pat Dyer's report continues..

5-20-77 (cont.)

Es 1559 WIFF 105.5 IN Auburn (1115) area ad
 1601 WYNO 106.1 OH Mansfield (1180) ad
 1603 WCLW 105.3 OH Mansfield (1180) ID
 1605 WSRW 106.7 OH Hillsboro (1080) ads
 1612 WMRI 106.9 IN Marion (1050) area ads
 1614 WXTZ 103.3 IN Indianapolis(995);m ID
 1615 WCRF 103.3 OH Cleveland (1250) psa
 1615 - 1655 with WOR's
 1659 WNNA 106.3 VA Gretna (1210) ID,sprts
 1700 WYEN 106.7 IL Des Plains (1050) ID
 WMIL 106.1 WI Waukesha (1100);m
 1702 WKDE 105.5 VA Altavista (1225) ad
 1707 WQRS 105.1 MI Detroit (1225) wx
 1714 WNR 107.1 OH Circleville (1125) ID
 1718 WITO 107.1 OH Ironton (1100) ID
 1724 WJRS 103.1 KY Jamestown (910) psa
 1740 WHOK 95.5 OH Lancaster (1145) ad
 1743 WHBC 94.1 OH Canton (1235) ad
 1745 WRQK 98.7 NC Greensboro (1175) ad
 1754 WRQO 95.1 NC Charlotte (1105);r
 1801 WSPA 98.9 SC Spartanburg (1035) ID
 1807 WNUU 94.5 SC Greenville (1010) wx
 WQDR 94.7 NC Raleigh (1230);r ID
 1808 WPEB 97.9 NC Concord (1120) area ad
 1812 WQMG 97.1 NC Greensboro (1175) ad
 1815 WRNS 95.1 NC Kinston (1275) ID
 1817 WQSM 98.1 NC Fayetteville (1200) ID
 1822 WQXI 94.1 GA Smyrna (875) "94-Q",
 Atlanta
 WPC? 94.9 GA Atlanta (880);m
 1830 WSB 98.5 GA Atlanta (880);m ID
 1832 WCMJ 99.3 SC Chester (1075);g ID
 1835 WSTS 96.5 NC Laurinburg (1165) ad
 1837 WXL? 94.3 AL Abbeville (805) with
 south AL baseball
 1840 WLSE 94.3 NC Wallace (1255) ID
 1852 fade outs

5-21-77

Es 1810 unID 89.7 ? brief

5-26-77

Es 0850 - 0855 unID 88.3

5-27-77

Es 0840-55 unIDs 88-89

1000-10 unIDs 88's

5-28-77

tr 0859 KIBK 94.5 TX Lubbock (340) ID
 0905 KSEL 93.7 TX Lubbock (340) ID
 0914 KWHW 93.5 OK Altus (360) ads, ID
 0927 KLUR 99.9 TX Wichita Falls (305) ID
 0928 KFJL 98.9 OK Oklahoma City (420);s
 0932 KOFM 104.1 OK Oklahoma City (420) wx
 0941 KWOE 106.5 OK Clifton (420) ID, psa
 0942 KOOI 106.5 TX Jacksonville (260) ID

5-29-77

Es 1510-25 unIDs 88-95

1528 WMB? 98.9 WI Toamh (1100)
 1538 KYEL 105.7 IA Waterloo (960) ad
 1542 KTNW? 107.9 MN Anoka (1125)
 1549 KYSM 103.5 MN Mankato (1045) ID
 1609 KSLD 95.3 NE Sidney (845) ID
 1625 fade outs
 1655-1710 unIDs 88-95
 1715 KXTZ 94.1 NV Henderson (1040) ads
 1733 KVIL? 93.7 CA Coachella (1070);S
 KILA? 95.5 NV Henderson (1040);g
 1741 KPFK 90.7 CA Los Angeles (1190) psa
 1743 KDKB 93.3 AZ Mesa (820) ads

5-29-77 (cont.)

Es 1800 KCSN 88.5 CA Northridge (1210) ID
 KPSC 89.3 CA Pasadena (1185) ID
 KUSC? 91.5 CA Los Angeles (1190);c
 KFAC 92.3 CA Los Angeles (1190) ads
 1803 KROQ 106.7 CA Pasadena (1185);r ID
 KWST 105.9 CA Los Angeles (1190) ID
 1817 KRUZ 103.3 Santa Barbara CA (1270) ad
 tr KWMJ 103.3 TX Midland (275) area ad
 Es KAPX 107.9 CA San Clemente (1150) ad
 KBIG 014.3 CA Los Angeles (1190) ID
 1819 KAGB 103.9 CA Inglewood (1195) area ad
 1823 KNAC? 105.5 CA Long Beach (1180);r
 1829 KBCA? 105.1 CA Los Angeles (1190)
 1832 KOST 103.5 CA Los Angeles (1190) ID
 1835 KWAQ 106.3 AZ Sun City (850) ID, ad
 KSTM? 107.1 AZ Apache Junction (810)
 1849 KPRI 106.5 CA San Diego (1120);r ID
 1905 KXYX? 96.5 CA San Diego (1120)
 KKOS? 95.9 CA Carlsbad (1125)
 1908 KIFM 98.1 CA San Diego (1120)
 1910 KFSG? 96.3 CA Los Angeles (1190);g
 1915 KFMB? 100.7 CA San Diego (1120)
 1916 KBLB 99.1 CA Riverside (1140) ID
 1917 KNOB 97.9 CA Long Beach (1180) ID
 1927 KFSD 94.1 CA San Diego (1120);c ID
 1941 KWYJ 98.5 CA Cathedral City (1080) ID
 1942 KJOY 98.7 CA Los Angeles (1190);m ID
 2000 KLON 88.1 CA Long Beach (1180) ID
 2015 fade out
 tr 2300 KSLI 96.9 LA Alexandria (385) ID,s/off
 2358 KSNS 96.1 LA Lake Charles (325) ID

5-30-77

tr 0000 KIEL 95.1 TX Beaumont (275) ID
 KQXY 94.1 TX Beaumont (275);m ID
 0030 WYLD 98.5 LA New Orleans (510) nx
 0043 WQUE 93.3 LA New Orleans (510) ID
 0045 KLCL 99.5 LA Lake Charles (325) ID
 0059 KAYD 97.5 TX Beaumont (275) ID
 0101 WEZB 97.1 LA New Orleans (510) ID
 local on 97.3 off

Es 1510-25 unIDs 88-89

5-31-77

Es 0835-55 unIDs 89's from OH

tr 0846 KYKR 93.3 TX Port Arthur (280) ad
 Es 0858 WSOF 89.9 KY Madisonville (835) ID
 0859 WDTN 89.7 TN Chattanooga (865) ID
 0900-40 unIDs 88-89
 0950 WJCT 89.9 FL Jacksonville (1015);c
 1008 WUSF 89.7 FL Tampa (985) ID, wx
 1029 WMCU 89.7 FL Miami (1150) ID
 1030 WWL? 93.9 FL Miami (1150);r
 WEDR? 99.1 FL Miami Beach (1150);r
 WWO? 99.9 FL Boca Raton (1150);m
 tr 1036 KIOF 106.1 TX Orange (295) "K-106"
 Es 1040 WAXY 105.9 FL Ft. Lauderdale (1150)
 political ad
 1042 WIRK? 107.9 FL West Palm Beach (1145)
 1045 WYOR 105.1 FL Coral Gables (1150) ads
 1046 WGLD 106.7 FL Ft. Lauderdale (1150) ID
 1058 WCVU 94.5 FL Naples (1050) ID
 WRGI? 93.5 FL Naples (1050);r
 1100 fade outs
 1205-10 TGRT? 88.8 Guat. Guatemala City (1120)

6-1-77

Es 1750 WDTN? 89.7 TN Chattanooga (865);g
 1810 WMPR? 88.1 SC Sumter (1110)

- continued -

Pat Dyer's report continues...

6-3-77

Es 1135-40 WJCT? 89.9 FL Jacksonville (1015)
 2025 KDKE? 93.3 AZ Mesa (820)
 KOOL 94.5 AZ Phoenix (835) ID
 KRBM?? 95.5 AZ Phoenix (835);m
 tr 2027 KGAF 94.5 TX Gainesville (300) ID
 Es KMEO? 96.9 AZ Phoenix (835);m
 KUPD? 97.9 AZ Tempe (825);r
 2037 KBBC 98.7 AZ Phoenix (835) ad
 2051 KILA? 95.5 NV Henderson (1040);g
 KXTZ? 94.1 NV Henderson (1040);m
 KLUC? 98.5 NV Las Vegas (1050);r
 KORK? 97.1 NV Las Vegas (1050);m
 KTRI? 92.3 NV Las Vegas (1050);r
 2054 KFSG? 96.3 CA Los Angeles (1190);g
 (50 mHz 3Es to Hawaii soon in, so I don't
 know what happened on FM after then.)

6-4-77

Es 1303 CJOM? 88.7 Ont Windsor (1230)
 1340-1410 unIDs 88-89
 1358 WGRD? 97.9 MI Grand Rapids (1125)
 WFMK 99.1 MI East Lansing (1195) ID
 1408 WZZM? 95.7 MI Grand Rapids (1125);r
 1747 WJMT 93.5 WI Merrill (1190) psa, ID
 1817 WMBI? 90.1 IL Chicago (1045);g
 1827 WNIU? 89.5 IL De Kalb (1020)
 1831 WAJP 93.5 IL Joliet (1015) ID
 1833 WFMT? 98.7 IL Chicago (1045)
 WLAK? 93.9 IL Chicago (1045);m
 WDAI 94.7 IL Chicago (1045);r ID
 WMEF? 95.5 IL Chicago (1045)
 1842 WYCA? 92.3 IN Hammond (1040);g
 1859 WNMU 90.1 MI Marquette (1320)
 1902 WVPE 88.1 IN Elkhart (1095) nx, ID

6-4-77 (cont.)

Es 1905-1955 unIDs 88-94 very spotty
 1959 WUWM 89.7 WI Milwaukee (1100) ID
 2016 KESD? 88.3 SD Brookings (1020)
 2021 KFJM? 89.3 ND Grand Forks (1240)
 KYTN? 94.7 ND Grand Forks (1240);m
 2023 KQWB? 98.7 MN Moorhead (1205);r
 2026 KDLO 96.9 SD Grand City (1090) ID
 2035 fade outs

6-5-77

Es 1210-20 unIDs 88-89
 1235 KESD? 88.3 SD Brookings (1020)
 1237 KEYA? 88.5 ND Belcourt ;r
 KUSD? 89.7 SD Vermillion (920);c
 1241 KFJM? 89.3 ND Grand Forks (1240);swing
 1243 KYTN 94.7 ND Grand Forks (1240);m ID
 1245 KQWB? 98.7 MN Moorhead (1205);r

This is about where the June report should have gone to. As of the moment, I have almost the entire month of June tapes to go back through to pick out IDs, etc. I guess I'll get caught up sometime. To keep the suspense up, there will be some double hop loggings in the June/July periods.

73s,

Pat WA5IYX

(Many thanks for reporting, Pat. And we'll be looking forward to hearing about those double hops, hopefully in next month's report. Thanks again ...dsc)

Ted Fleischaker 3023 Tremont Drive, Louisville KY 40205 (502) 454-3191 EDT
 Equipment: Technics ST-7600 and Winegard SG-650 at 25 feet.

Been such a busy first part of the season that I hardly have had time away from the radio to eat and sleep (but those who know me know not eating won't hurt any, hi). At any rate, been a phenomenal June and July thus far, with lots of new loggings. New loggings since 6-7:

6-14-77

Es 1800 KFYZ 92.9 ND Bismarck
 1802 KQDY 94.5 ND Bismarck

6-21-77

Es 1950 WKSJ 94.9 AL Mobile
 tr 2128 WLCK 99.3 KY Scottsville
 2158 WTKY 92.1 KY Tompkinsville

6-23-77

Es 2002 KZFM 95.5 TX Corpus Christi
 2012 KRLY 93.7 TX Houston
 2016 KIOU 96.5 TX Corpus Christi

6-25-77

tr 1011 WDRM 102.1 AL Decatur
 1102 WLOC 102.3 KY Mumfordsville
 1124 WIMA 102.1 OH Lima
 1200 WMBJ 102.1 IL Danville

6-29-77

tr 0211 WAMX 93.7 KY Ashland
 0150 WXUS 92.7 IN Lafayette

6-30-77

tr 0205 KNWS 101.9 IA Waterloo
 Es 2000 KAMA 93.1 TX El Paso

6-30-77 (cont.)

Es 2002 KPAS 93.9 TX El Paso
 2015 KSET 94.7 TX El Paso
 2046 KRDO 95.1 CO Colorado Springs
 2101 KWBI 91.1 CO Morrison-Denver

7-1-77

tr 2015 WDEF 92.3 TN Chattanooga
 Es 2055 KLBJ 93.7 TX Austin
 2100 KNBT 92.1 TX New Braunfels
 2115 KOKE 95.5 TX Austin
 2124 KINL 92.7 TX Eagle Pass

7-3-77

tr 0303 WIL 92.3 MO St. Louis

7-4-77

tr 0110 WBIE 101.5 GA Marietta
 0134 WPVR 94.9 VA Roanoke
 0205 WYCA 92.3 IN Hammond
 0217 WLRG 92.3 VA Roanoke
 0325 WRJB 98.3 TN Camden
 1215 WRAJ 92.7 IL Anna
 Es 1335 KYEA 88.5 ND Belcourt
 tr 2244 WEBQ 99.9 IL Harrisburg

That's it as of now, but am working on them, as am still missing some easy states around here that I really ought to have. Total states heard now at halfway point at 25, with just one lone Canadian province and also Mexico on my list. That's about it for now — anyone interested in swapping an air check or two, please write or call! 73s, Ted

Mike Dalton	1840 Drew St., Clearwater, FL 33515	EST/EDT
3-14-77		5-19-77 (cont.)
tr 1000	WTSU 90.1 AL Troy ;m Troy St. U.	tr 1715
	WJIZ 96.3 GA Albany	WGOK 92.1 AL Fairhope
	WEZB 97.1 LA New Orleans	WBLX 92.9 AL Mobile
	WAFB 98.1 LA Baton Rouge	WMIM 93.9 GA Moultrie
	KDEA 99.1 LA New Iberia	WROA 107.1 MS Gulfport
	WKRQ 99.9 AL Mobile	WOWD 103.1 FL Tallahassee
	WNOE 101.1 LA New Orleans	WWL 101.9 LA New Orleans ID and "Beautiful Music"
	WWL 101.9 LA New Orleans	WAFT 101.1 GA Valdosta
	WXEL 105.3 LA Slidell	WCUP 100.3 GA Tifton
3-28-77		WKRQ 99.9 AL Mobile
tr 1000	WMPR 88.1 SC Sumter	WAFB 98.1 LA Baton Rouge
4-1-77		WQHL 98.1 FL Live Oak in w/WAFB
MS 1515	WILL 90.9 IL Urbana	WTAD 97.3 GA Bainbridge
4-5-77		WEZB 97.1 LA Baton Rouge
Es 0915	WVJC 89.1 IL Mt. Carmel ;r recently raised power to 50kw - got two calls from the station	WXLM 97.3 GA Savannah
4-6-77		2108
tr 1340	KSUC 88.3 TX Keene	KZZQ 94.3 LA Golden Meadow
	KETR? 88.9 TX Commerce	WQID 93.7 MS Biloxi
	KERA? 90.1 TX Dallas ;c mx then nx	
	?? 91.7 ? gospel	5-20-77
4-18-77		tr
tr 1112	WGOK 92.1 AL Fairhope with ID	XHFO 92.1 DF Mexico City ;m,SS
	WBLX 92.9 AL Mobile	TGRT 88.8 Guatemala
	?? 94.5 ? easy listening	5-26-77
	WJAD 97.3 GA Bainbridge w/ID	MS 1000
	WLTE 102.5 GA Waycross ;k w/ads	WSF- unID via MS
	WFTW 99.3 FL Ft. Walton Beach	Also on about this date, club member Earl Lyons and I were reviewing a tape made last year during an opening to Panama and found this: 6-29-76 1200 Radio Barranquilla, 90.5 Barranquilla, Columbia S.A. with announcements and ID. Have written to station for confirmation. It does pay to save DX tapes!!!
	WAFT 101.1 GA Valdosta ;g	5-30-77
4-29-77		Es 2212
tr 0850	?? 90.9 ? jazz mx then f/out	KDFS? 88.1 IA Des Moines
	KPFT 90.1 TX Houston	unID 90.1 ? gospel
	KAMU 90.3 TX College Station ;P ID	unID 89.5 ? discussion about Israel 1974
	KANU 91.5 KS Lawrence	WERN? 88.7 WI Madison WI network
	KCHU 90.9 TX Dallas	unID 89.1 ? lecture
4-30-77		KCLC? 89.1 MO St. Charles
tr	WHHY 101.9 AL Montgomery w/ads	unID 90.9 ? symphonic
also	SS unID on 88.8 from SW - most likely TGRT, Guatemala	KGRC? 92.9 MO Hannibal
	unID from north with jazz	WHLA? 90.3 WI Holmer
5-4-77		KUNI? 90.9 IA Cedar Falls ;r
0930	WBCL 90.3 IN Ft. Wayne with mentions of the city	2238
5-5-77		KOCK 88.3 IA Cedar Rapids ;c
tr 1145	unID 90.9 ? ;r & P	WBGO 88.3 NJ Newark QRM to KOCK
	WFAM 91.1 FL Jacksonville w/piano	unID 87.8 ? TV ch6 w/Sonny & Cher
	unID 91.9 ? nx, "91.9 FM stereo" - any guesses??	WPE? 89.3 WI Green Bay
5-18-77		WERN 88.7 WI Madison "Wisc Ed Radio Network"
Es 1820	WORO 92.5 PR Corozal	WHAD 90.7 WI Delafield
5-19-77		unID 90.9 ? rock
tr 1006	WBLR 92.1 SC Batesburg	WUOT? 91.9 TN Knoxville
1016	WPEH 92.1 GA Louisville	KAUS 99.9 TX Austin ;m w/ID
	WLTR 91.3 SC Columbia w/ID	KIMI 97.3 IA Des Moines wx,nx
1038	WBBQ 104.3 GA Augusta	2305
	WGPC 104.5 GA Albany	KKBC? 97.3 NV Carson City
	WDEN 105.3 GA Macon w/ads	KDLO? 96.9 SD Garden City
	WKIG 106.3 GA Glenville on with transmitter tests	KMRJ? 96.9 KS Pittsburg
	WOKA 106.7 GA Douglas ;k	KCFL? 95.3 MO Kansas City
	WCLA 107.1 GA Claxton	KFLA? 94.5 KS Scott City
	WZZW 103.1 GA Augusta	KSTP 94.5 MN St. Paul wx & ID
1118	WZAT 102.1 GA Savannah	KJCK? 94.5 KS Junction City ;r
	?? 101.9 FL Jacksonville (WQXQ in Daytona Beach?...dsc)	1133
	WBEJ 100.1 FL Port Charlotte	KFMD? 92.9 IA Dubuque ;r
	WXLM 97.3 GA Savannah	KDB? 93.7 CA Santa Barbara tentative over WFUZ Ocala
		5-31-77
		Gulf tropo comes late this year!
		tr 1125
		KBID 92.9 TX Wichita Falls
		KNTU 88.5 TX Denton
		KCBI 89.3 TX Dallas ;g w/ID
		KERA? 90.1 TX Dallas

- continued -

Mike Dalton's report continues..

5-31-77 (cont.)

tr 1125 KCHU 90.9 TX Dallas
 KSYM? 90.3 TX San Antonio ;j&m
 KNIT? 105.1 TX Abilene
 KHOO 99.9 Tx Waco w/nx
 unID 99.9 ? rock
 KPLT 99.3 TX Paris ;r
 KLTD? 99.3 TX Lampasa ;k w/nx
 1208 KPMK 97.9 TX Houston nx & ads
 WOAI 97.3 TX San Antonio ;m
 KBOP 98.3 TX Pleasonton ;r/k ID
 KIOU 96.5 TX Corpus Christi ;m
 KZFM 95.5 TX Corpus Christi ;r wx
 KSLX 93.9 TX Corpus Christi ;m
 unID 91.9 ? SS, probably Mexico
 City, D.F.
 KPUP 97.7 TX Kingsville ;r with
 ads, wx & time
 KPEK 92.1 TX Kingsville ads, ID
 KDSE 92.1 TX Alice ;r
 XHRL 91.9 Tam Ciudad Mante ;SS,r/s
 XHXC 90.1 NL Monterrey ;SS very
 low modulation level
 WEZB 97.1 LA New Orleans
 WQUE 93.3 LA New Orleans w/local
 off-air

6-1-77

Es 1105 WGGL 91.1 MI Houlton w/nx
 WERN 88.7 WI Madison
 WERS 88.9 MA Boston ;j with dis-
 cussion abt Boston

1118 unID 92.1 ? rock
 WYXE 92.1 WI Sun Prairie nx
 unID 88.7 ? singing, maybe CJOM?
 unID 88.3 ? comedy program

6-2-77

Es 2039 WNHU? 88.7 CT New Haven ;r/j
 WERS 88.9 MA Boston ;r ID
 WJMJ? 88.9 CT Hartford
 unID 88.5 ? symphonic
 unID 89.1 ? symphonic
 WBSB? 88.1 MA Boston Boston area pgr
 WESU? 88.1 CT Middleton talk show
 WMEA? 90.1 ME Portland strng quart.

6-2-77 (cont.)

Es unID 90.3 ? rock
 unID 104.1 ? rock
 WIGY 105.9 ME Bathe ID,ads,prog
 WDRG? 102.9 CT Hartford ;r
 WGAN 102.9 ME Portland "Stereo 93"
 w/ads,ID,prog
 WPOR? 101.9 ME Portland ;k racing ad
 WKXL? 102.3 NH Concord PSA then mx
 2142 WRIO 102.3 NJ Cape May ;g
 2147 WNBX? 103.7 NH Keene
 WKDN 106.9 NJ Camden
 2159 WCIB 101.9 MA Falmouth-Cape Cod ;m ID
 unID 101.1 ? rock
 WQRC? 99.9 MA Barnstable ;m
 2210 WVOI? 92.7 MA Tisbury
 tr WEZB 97.1 LA New Orleans

6-3-77

Es 2025 KMUW 89.1 KS Wichita
 WOI 90.1 IA Ames
 KLFM? 104.1 IA Ames
 KLYF? 100.3 IA Des Moines
 2035 WMT 96.5 IA Cedar Rapids
 KXTR 96.5 MO Kansas City ;k
 KEFM? 96.1 NE Omaha
 KSRD 96.9 NE Seward with ads,ID,wx
 unID 92.1 ? marriage program
 (KLJV,KTAV?)
 KUMR 88.5 MO Rollo ID, opera
 unID 88.9 ? rock
 fadeout and locals only in after 2050, so went
 home very tired after a day's work & DX

6-4-77

tr WBLR 92.1 SC Batesburg ;r anncr talk
 unID 94.5 ? gospel
 unID 91.3 ? under local - most
 likely WLTR Columbia SC
 0930 WUUU 94.5 SC Greenville
 MS 0945 WAMU? 88.5 ? location of camp-
 ground "near Hagerstown"
 Maryland?

(Thanks for the report, Mike! Mike also
 mentions that he would like to hear from any-
 one with any experience with S.A. or Europe DX)

John M. Jefferson

1150 Tilson Dr., Concord CA 94520

PST/PDT

Here's my DX for 8-23-76 to 6-17-77. There was little to report until this month, but the
 Es has been coming in most afternoons the last two weeks. Equipment: Heathkit AJ-15 tuner
 and Sherwood S-7100 receiver; Winegard CH-6065 FM antenna 40 feet off the ground and Wine-
 gard SC-650 FM antenna 15 feet up; rotors on both antennas. Most loggings done with AJ-15
 and SC-650 due to bad circuit board on CH-6065 (now fixed). Local interference on SC-650
 less also though the CH-6065 delivers more signal.

3-23-76

tr 0330 KVIP 98.1 CA Redding (180) ID
 MS 0430 KFKZ 96.1 CO Greeley (930) pol.ad

9-12-76

MS 0300 KRSP 103.5 UT Salt Lake City (570) ID

10-10-76

MS 0030 KZAM 92.5 WA Bellevue (690);r veri-
 fied by phone

11-9-76

MS 0157 KWFM 92.9 AZ Tucson (720) psa

1-24-76

MS 0312 KBXL 94.1 ID Caldwell (510) ID

0445

KEUT 94.1 WA Seattle (690) ID

2-23-76

R 1830 KKYS 107.5 CA Hanford (170) ID

2005

KUNR 88.7 NV Reno (165) w/basket-
 ball game. This one was
 over high mountains!

3-17-77

tr 0300 KKBC 97.3 NV Carson City (155) ID, new
 in Concord, not in area

3-22-77

MS 0510 CBRX 100.1 AT Lethbridge (945) ref. to
 Calgary

4-17-77

MS 1200 KRWN 92.9 NM Farmington (750) ref. to
 4 Corners

4-30-77

gw 2220 KUBB 96.3 CA Mariposa (115) ID, tests

5-7-77

MS 1620 KLOO 106.1 OR Coraville (480) ad

5-27-77

tr 2330 KNVR 96.7 CA Paradise (120) ID

6-3-77

Es 1630 unID 92.9 ? likely KSPV; brief but
 strong - season's first!

John Jefferson's report continues...

6-5-77
Es 2100 KWFM 92.9 AZ Tucson (720)
6-6-77
MS 1315 KUOW 94.9 WA Seattle (690) phoned
for verie
6-7-77
Es 1950 KSVP 92.9 NM Artesia (1040) ID,
solid for 10 min.
1950 KAVE 87.7 NM Carlsbad (1050) ch.6
2000 KNFM 92.3 TX Midland (1185) ID
2005 KBIM? 94.9 NM Roswell music o/r KSAN
2010 KLEF 94.5 TX Houston (1600) psa
KPFT? 90.1 TX Houston modern opera?
2030 KLBK 94.5 TX Lubbock (1155) ID
2036 KQIZ 93.1 TX Amarillo (1115) "2-93"
2040 KRWG? 90.7 NM Las Cruces (930);c
KCOT 104.7 TX Lamesa (1170) mx & ID
2045 XHTO 104.3 CH Ciudad Juarez (975) w/
El Paso ad

6-9-77
Es 1550 KBID 92.9 TX Wichita Falls (1320) ID
6-10-77
Es 1555 KSPZ 92.9 CO Colorado Springs (915)
"2-93", local ref.
KBPI 105.9 CO Denver (915) ads
1600 KUNC 91.5 CO Greeley (930) ID
1603 KVMY 104.7 CO Vail (875) loc. nx
1604 KOAQ 103.5 CO Denver (915) loc. nx
1610 KFKZ 96.1 CO Greeley (930) loc. ref
1615 KRAI 93.7 CO Craig (790) loc. wx
unID 93.5 NE or CO local ad
1616 KUNC 91.5 CO Greeley (930) ID
1715 KAWY 94.5 WY Casper (875) ID first
from Wyoming
1716 KOLL? 93.5 WY Gillette mx
1720 KBYU? 88.9 UT Provo ;c in over 10min
1729 KLUW 97.1 UT Salt Lake City (570)
new in Concord, new in
Es, not new in area
1730 KCPX 98.7 UT Salt Lake City ID
1738 KKFM 96.5 CO Colorado Springs (915)
o/r KOIT ID
1745 KDJQ 97.9 CO Pueblo (930) ID in
stronger than most SF
stations
1750 KIIQ 102.7 CO Manitou Spr. (915) ad
KULL 94.5 KS Scott City (1125) ID
solid for 10min+
1800 KZLO 100.7 CO Pueblo (930) ID
KVMN 98.9 CO Pueblo (930) loc. ref.
1805 KYOT 96.7 CO Sterling (1000) net nx
1815 KPIK 93.9 CO Rocky Ford (975);S
1817 KQIX 93.1 CO Grand Junction (720) ID
1818 KREX? 92.3 CO Grand Junction

6-10-77 (cont.)
Es 1835 unID 99.5 ? sports prog
1845 KWBI 91.1 CO Morrison (1010) ID
1850 KXXX? 100.3 KS Colby (o/r KBAY San Jose)
Royals BB
KLIR 100.3 CO Denver (915) o/r KXXX?
both strong
KIMN 98.5 CO Denver (915) ID
1852 KKFM 96.5 CO Colorado Springs (915)
1855 KWDY 105.5 CO Security (930) ID
KAZY 106.7 CO Denver (915) ads
KXXK 95.7 CO Denver (915) ID
1900 KOST 101.1 CO Denver (915) ID
KLIR 100.3 CO Denver (915) ID
1902 KBPI 105.9 CO Denver (915) ID
1905 KINK 101.9 CO Colorado Springs (915)
KVOD 99.5 CO Denver (915) ID
1907 KSPN 97.7 CO Aspen (820);A loc. ad
1910 KREX? 92.3 CO Grand Junction ;c
1911 KPUB 99.9 CO Pueblo (930) ID
1915 KGIW? 93.5 CO Alamosa ;c
1925 KVMY? 104.7 CO Vail ;c
1930 KRDO 95.1 CO Colorado Springs (915) ad
1940 KQIZ 93.1 TX Amarillo (1115) ID
2003 KUMN 90.1 NM Albuquerque (860) loc. psa
KRST? 92.3 NM Albuquerque local ad
2008 KGNC 97.9 TX Amarillo (1115) ID
2015 KLRW 99.9 TX Wichita Falls (1320) ID
2025 KWAS 101.9 TX Amarillo (1115) ID
MUF at least 107.5 (probably had KIAK, CO but
nothing identifiable)

6-11-77
Es 1930 unID 94.7 ?
6-13-77
Es 1812 KWNS 93.1 KS Pratt (1225) Royals BB
1815 KICT 95.1 KS Wichita (1285) ID
6-14-77
MS 1515 KRWN 92.9 NM Farmington (750) loc ad
6-15-77
Es 1140 KTNM 92.7 NM Tucumcari (1015) loc. ad
1600 KLBK 94.5 TX Lubbock (1155) ID
1620 KANW 89.1 NM Albuquerque (860) ID
KUNM 90.7 NM Albuquerque (860) local
references
1635 KPAR 100.3 NM Albuquerque (860) local
advertisements
1645 KCOT 104.7 TX Lamesa (1170) ID
6-16-77
tr 2335 KPRA 92.5 CA Paso Robles (175) ID new
station in Concord
6-17-77
tr 2250 KPFI 96.3 CA Eureka (220) local
references

The unIDs listed for 6-10 are only those I think I have a chance to identify. There were others, notably stations on 90.1 while UT and CO were in, and stations on 104.3 and 107.5 while CO was in. On 6-15 while Albuquerque was in, there were unIDs on 88.3, 92.3, 93.3, and 99.5. Not much doubt who they were, but no hard evidence. Es on 6-15 lasted over 3 hours (1600-1900) but I've suppressed the repetitions of Amarillo and Wichita Falls (was too lazy to log in the times they were in). Rather frustrating day, unlike 6-10, when stations stayed put long enough to be identified!

If the logging list makes it sound like I was in two places at once, by the way, that's because I was! I'd park the Sherwood on some easy signal (KBYU or KULL, e.g.) while scanning for talk with the Heathkit.

Total now at 309, counting frequency changes (10). Hopefully, verifications of the tentatives will be raising that total in the next few days.

(Some nice catches John; Thanks for reporting. And a reminder to all DXers that you can really help others by sending a report of your veries to Tom Yingling and QSL Corner ... dsc)

The TV-DX Log

by Morrie Goldman, WA9RAQ
5815 North Christiana Ave.
Chicago, Illinois 60659

Logs of one sort or another have been important to man since the day he first learned to graphically record things he saw. Even before he devised an alphabet, man recorded such information as the number of animals he killed or how bad a storm was by painting pictures on the walls of his cave.

For the TV-DXer, a log is something special, and it seems that there are as many ways to keep a DX log as there are DXers! Every DXer has his own preference regarding how to record information of stations received. Many DXers do have this much logging policy in common, however: keeping two logs, one a formal log and the other a running log.

The running log is usually a note pad with just about every detail written down. Example:

Oct. 20, 1976
0440 Several MS bursts of WCBS-2 w/TP
0451 WJBK-2 w/TP weakly by tropo
0510 UnID-4 by MS to SW with TP and
large "TV" in top left and "4"
in top right. No call noted.
0530 WOTV-8, WTOL-11, KFVS-12
Oct. 21, 1976
2000 Noted auroral hash up to ch 13
2015 CJBR-3 w/talk show and ad for
"Bill's Gas Station on 12th St."
ID with temp (29°) at 2017.

You might not want quite this much detail, but remember, it may be a useful reference source at a later date. Make sure that you include enough program info, ads seen, etc. for your report to the station if you seek verifications (QSLs or "veries").

Your formal log can be kept in any of a number of ways. Some DXers prefer listing their stations received by channel, others by location, and still others in order received. The most basic form of a formal log would include only a list of call letters of stations received. More complex forms might include transmitter location, date and time of reception, audio and video signal quality, whether a QSL request was sent and received, etc. Shown below is the form which I employ in my formal log. The (D) after times indicates DST.

DATE	TIME	CALL/CH	LOCATION	VFD	PHOTO
10-5-76	0530(D)	WKBW-7	Buffalo NY	X	X
10-5-76	0605(D)	CHCH-11	Hamilton ON		X

The log is kept in a loose leaf binder, along with card and letter verifications and DX photos. Pages are protected by plastic covers; these are cheap and are really a must for protecting pages and veries.

We mentioned briefly that it may be a good idea to keep your notes as detailed as possible for later reference. Projecting ahead to when this information might be needed, let's examine a hypothetical opening by reading the notes:

June 3, 1977
1118 Noted Es, SW, strong on chs 3 & 4
w/CCI on local 2.
1120 UnID-3, WSW w/local news program
1121 Same 3 w/local spot for "Williams
Radio Sales" on 5th Street
1125 KGBT-4 with tech trouble slide
1128 KIII-3, 20 kHz offset with UnID-3.
1200 KMOL-4 w/news and WOAI radio promo
UnID-3 IDs as "Big 3." Both ABC and
CBS logos shown.

Reviewing the running log, you know from offset observation, as recorded in notes, that KIII is 20 kHz with the unID station. By checking a station list such as WTFDA's TV STATION GUIDE, you find that KIII is a 3- offset, which would make the unID station a 3+. You now know several facts about the unID mystery station: it is a 3+ offset, probably in the area of Texas (all other stations identified were from Texas) and the station is affiliated with both the ABC and CBS networks. From this information it would appear that the unID is KBTX-3 Bryan TX. But to be certain, a call to Bryan directory assistance (a no-charge call) reveals that there is indeed a "Williams Radio Sales" on 5th Street. You've solved your unID!

Morrie Goldman

William J. Draeb		Ellis St. R.R. #2		Kewaunee, Wisconsin 54216 (CDT)				
May								
7 Es	2058	WESH-2 FL 1130	30 Es	1258	WTVY-4 AL 954			
		WEDU-3 FL 1192		1557	WFBC-4 SC 725			
		WTVJ-4 FL 1368		1616	WBTB-3 NC 736			
	2107	WTHS-2? FL T		1620	WCSC-5 SC 916			
8 Tr	0628	WLEK-18 KY 473		1625	WWAY-3 NC 882			
		WKYT-27 KY 473		1631	WPMY-2 NC 718			
		WTVQ-62 KY 473		1640	WUNC-4 NC 749			
			31	0825	WEDU-3 FL 1191			
11 Es	2113	CFAC-2 AT 1310		1415	KWGN-2 CO 952			
		CFGN-4 AT 1310			KOA-4 CO 952			
	2130	CHAT-1-4? AT T		1502	KTWO-2 WY 947			
	2137	KRTV-3? MT T		1629	KID-3 ID 1214			
12 Es	1625	"unIDs from TX & NM area"	June					
	1730		1 Es	1055	KMLD-2 TX 1176			
15 Tr	0725	WKBF-22 NM 368			KPDX-3 TX 945			
		W39AA-39 IN 268			KWAB-4 TX 1135			
	0728	WLKY-32 KY 437			KACB-3 TX 1143			
	0733	WLIX-19 KY 400		1102	KMOL-4 TX T			
		WCET-48 OH 400		1300	KENW-3 NM 1103			
Es	2301	WRAR-3 FL 986	Tr	2145	CKPR-2 ON 300			
	1430	unID 2-5 south			CHFD-4 OK 300			
18 Tr	0919	KYIN-24 IA Mason City 300 " + offset"	2 Es	1100	WLBT-3 MS 866			
				1130	WMAZ-2 MS T			
19 MS	2159	KOA-4? CO 952	3	1100	"weak signals on chs 2-4"			
21 Es	0930	KMOI-4 TX 1213	Tr	0715	KDNL-3 MO 432			
	1530	KENW-3 NM 1103	Es	2015	KENW-3 NM 1103			
	1534	KDBC-4? TX T	4	1525	"weak, chs 2-4"			
		KAMR-4? TX T		2007	"weak, chs 2-4"			
25 Tr	0640	London U's 328 Kitchener U's Toronto U's Youngstown U's		2037	KENW-3 NM 1103			
	0729				KAMR-4 TX 991			
	0749				KOB-4 NM T			
		WNBO-45 OH 406		2102	KMLD-2 TX 1176			
		WJET-24 PA 405		2105	KPRC-2 TX 1118			
		WSEB-35 PA 405		2115	KXTT-5 TX T			
		WAKR-23 OH 380		2124	KWAB-4 TX 1135			
	0745	WLEK-18 KY 473		2127	KDPW-4 TX T			
		WKYT-27 KY 473		2158	KDBC-4 TX 1350			
		WKLE-46 KY 473	5	0730	WCBD-2 SC 916			
		WTVQ-62 KY 473		0753	WCIV-4 SC 916			
		WLIX-19 KY 400		0758	WUND-2 NC 840			
		WCET-48 OH 400		0814	WCBS-2 NY 740			
		WCVN-54 KY 400			WNBC-4 NY 740			
		WKZT-23 KY 473		0817	WNEW-5 NY T			
		WKSO-29 KY 538		0818	WFGB-3 CT T			
		WKMR-38 KY 487			KTW-3 PA T			
		WBAK-38 IL 551	Tr	0837	WUTV-29 NY 445			
		WKON-52 KY 437			CIC018-48 ON 328			
		WKPC-15 KY 437	Es	0900	WRAR-3 FL 986			
	0812	WKMJ-68 KY 437		0904	WEDU-3 FL 1191			
	2013	WKBW-27 OH 420		1152	WRBL-3 GA T			
	2113	KDNL-30 MO 432			WTVY-4 AL T			
		WOSU-34 OH 395		1540	WCBD-2 SC 916			
		WKBF-22 OH 368			WUND-2 NC T			
		WPTD-16 OH 368		1559	CHSJ-4 NB 1085			
		WVIZ-25 OH 355		1602	WGHE-2 MA 840			
		WUAB-43 OH 340		1611	CBHT-3 NS 1170			
		KYIN-24 IA 300			WLBZ-2 ME 925			
	2144	KHIN-36 IA 457			WABT-5 ME 925			
29	1930	Youngstown U's Cleveland U's		1625	CKCW-2 NB 1117			
		WAKR-23 OH 380		1642	CBIT-5 NS 1350			
				1704	GJCB-1-6 NS			
30 Es	0930	WESH-2 FL 1130	6	0840	KDFW-4 TX 957			
	1234	WEDU-3 FL 1191		0854	KXAS-5 TX 972			
	1237	WJXT-4 FL 1039		0900	WEDU-3 FL 1191			
		WCBD-2 SC 916		1030	KTBS-3 LA 910			
	1240	WSAV-3 GA 933		1100	KPDX-3 TX 945			
		WSB-2 GA 768		1550	WEDU-3 FL 1191			
	1255	WCIV-4 SC 916		1601	WCIV-4 SC 916			
					6 Es 1620			
					WJBB-6 GA 823			
					1625	CJBR-3 QB 951		
						CJCB-4 MS 1350		
					1631	CHSJ-1-6 NB		
					1633	CHSJ-4 NB 1085		
					1645	CFCM-4 QB 803		
						GJCB-1-6 NS		
					1700	CKCW-2 NB 1117		
					1715	CBHT-3 NS 1170		
						CJCH-5 NS 1170		
						CBIT-5 NS 1350		
					1805	WFSB-3 CT T		
					1830	KENW-3 NM 1103		
						KAMR-4 TX 991		
					2142	KPDX-3 TX 945		
					2128	KWGN-2 CO 952		
						KOA-4 CO 952		
						KRNA-6 CO 952		
					2136	KTWO-2 WY T		
						CJBR-3 QB 951		
						CFCM-4 QB 803		
						CKMI-5 QB		
						Sainte Foy 803		
						CHAU-5 QB T		
					2220	KAUZ-6 TX 945		
					2224	KTVY-4 OK 815		
					7	1045	CJBR-3 QB 951	
					8	0827	WEDU-3 FL 1191	
						0900	KYW-5 PA 705	
							MPVI-6 PA 705	
							WCBS-2 NY 740	
							WRBC-4 NY 740	
							WFSB-3 CT 767	
					9	0110	KDWB-4 NB 767	
						0120	KUTV-2 UT 1264	
							"WBAY-2 off"	
						0125	KWGN-2 CO 952	
					2Es	0127	KTVH-2 NV	
							Hemo 1671	
							"state #43"	
					Es	0137	KOA-4 CO 952	
							KTVS-3 CO 837	
						0200	KTVX-4 UT 1264	
						0203	KSL-5 UT 1264	
						0217	KID-3 ID 1214	
						0220	"everything gone"	
						0811	"Es starting again to north"	
						0935	WESH-2 FL 1130	
						0940-	"no time to watch" MUF ch6	
						1140	KTWO-2 WY 947	
						1500	KOTA-3 CO 776	
							1600	KENW-3 NM 1103
						1700	KTVS-3 CO 837	
							KDUH-4 NB 767	
						1730	KOB-4 NM 1200	
						2040	WEDU-3 FL 1192	
					Tr	2205	KHIN-36 IA 457	
							KYIN-24 IA 300	
							KSIN-27 IA 463	
							KINL-30 MO 432	
						2208	WOSU-34 OH 395	
							KRTV-3 MT 1159	
					10 Es	1100	WTIU-30 IL 376	
					Tr	2030	WBAK-38 IN 348	
							WTWO-2 IN 348	
							WLKY-32 KY 437	
							WDRB-41 KY 437	

William J. Draeb (continued)

June												
10	Tr	2030	WREH-25 IN 420	14	Es	1802	WMAB-2 MS 784	21	Es	1230	KMOL-4 TX 1213	
			WKSO-29 KY 538			1810	WERZ-2 IA 1002			1245	KATC-3 LA 1026	
		2040	WUSI-16 IL 402				WLBT-3 MS 866				WVI-4 LA T	
			WVUT-22 IN 405			1814	WWL-4 IA 1028				KCBN-6 TX T	
		2113	WKGB-53 KY 530		Tr	2035	KHIN-36 IN 457			1252	KDFW-4 TX 957	
		2127	WKZT-23 KY 473			2045	KCBJ-17 MO 450				KMLD-2 TX 1176	
		2140	WATL-36 GA T				KDNL-30 MO 432			1300	KFDX-3 TX 945	
		"same offset as WMVI"					WOSU-34 OH 395			1430	KENW-3 NM 1103	
		2140	WHAB-46 GA T				WHMB-40 IN 336			1811	KACB-3 TX 1143	
		"10 kc off WKLE"				2052	KBMA-41 MO 525			1815	WEAR-3 FL 986	
		2140	WTVK-26 KY 626			2100	KTSP-27 KS 560			1820	WEDU-3 FL 1192	
		2208	WHAS-11 KY 437			2111	KMTC-27 MO 588				WDIQ-2 AL 925	
		2221	WTCG-17 GA 768		15	Es	0120	KENW-3 NM 1103			WTVY-4 AL 934	
			WKON-52 KY 437				KOA-4 CO 952			2056	WESH-2 FL 1130	
		2249	WPBO-42 OH 461			0140	KWGN-2 CO 952			2030	WTHS-2 FL T	
		2334	WKBN-27 OH 420		Tr	0825	WMUL-33 WV 498				WTVJ-4 FL T	
11		0705	WLKY-32 KY 437				WOSU-34 OH 395			2100	WJXT-4 FL T	
	Es	1730	KMOL-4 TX 1214				KDNL-30 MO 432			2101	WUFT-5 FL 1071	
		1745	KENS-5 TX 1214		Es	0830	KATC-3 LA 1026			22	0818	WCBI-4 MS 770
		"other unIDs"			Tr	2010	KTIN-21 IA T			0825	WMAB-2 MS 1130	
	Tr	2218	KGBJ-17 MO 450				KYIN-24 IA 300				WESH-2 FL 1130	
			KMTC-27 MO 588			2016	KOZK-21 IA 588			0830	WGN-2 TN 585	
	Es	0900	CBHT-3 NS 1170				KMTC-27 MO 588				WLBT-3 MS 866	
		0905	WLBZ-2 ME 925				KDNL-30 MO 432			0840	WERZ-2 LA 1002	
			WABI-5 ME 925			2023	KPOB-15 MO T			0849	WCBZ-2 SC 916	
			GJCH-5 NS 1170			2026	KBMA-41 MO 525				WCIV-4 SC 916	
			CJCHG-6 NS			2033	KTUJ-16 MO 633			0855	WCSG-5 SC T	
		0920	WFSB-3 CT T		16	Es	2110	KHIN-36 IA 457		Tr	2030	WTPA-27 PA T
		0935-1110	"can't DX"				1130	unIDs 2,3,4 S.			WKBN-27 PA 420	
		1110	CJBR-3 QB 951				unIDs 2,3,4 S.				2127	WTTU-30 IL 376
			CFCM-4 QB T		17		1559	KFDX-3 TX 945		23	0727	WMUL-33 WV 498
		1623	KTVS-3 CO 837			2000	KTVX-4 UT 1264				Youngstown U's	
		1635	KDUH-4 NE 767				KUTV-2 UT 1264			0748	WJBT-24 PA 405	
		1640	KTWO-2 WY T		18	0817	unID-2 south				WSKE-35 PA 405	
		1730	CFCM-4 QB 803		19	2010	WPBT-2 FL 1372			Es	0959	KTFY-4 OK 820
			CJBR-3 QB 951				WRBI-3 GA 853			1015	KOA-4 CO 952	
		1738	WGBH-2 MA 840				WTVJ-4 FL 1372				KWGN-2 CO 952	
		1800	CHSJ-4 NB 1085			2013	WPTV-5 FL 1305			1022	KRMA-6 CO T	
			KCQW-2 NE T				WEDU-3 FL 1192			1024	KENW-3 NM T	
			WLBZ-2 ME 925			2017	WESH-2 FL 1130			1029	KLNB-3 NE 669	
			WABI-5 ME 925			2023	WTVY-4 AL 934				KDUH-4 NE 767	
		1805	KTVX-4 UT 1264				WCIX-6 FL T				KMTV-3 NE T	
			KUTV-2 UT 1264				WCTV-6 FL 972				KWNB-6 NE 738	
		1943	KTWO-2 WY 947			2026	WJXT-4 FL 1039				KTVS-3 CO 837	
		2000	KID-3 ID 1214			2146	WDIQ-2 AL 925			1100	KTCU-5 WY 900	
13		0857	CJBR-3 QB 951			2205	WUFT-5 FL T				KOAA-5 CO T	
		0852	CBVT2-3 QB		20	1155	WTHS-2 FL T				1152	KNOP-5 NE T
			La Tuque 756			1225	WMAB-2 MS T				1234	KTWO-2 WY 947
		"running CBC TP					WGBD-2 SC T				1658	WEAR-3 FL 986
		with call"				1237	WEAR-3 FL T				1830	KATC-3 LA 1026
		1700	KRTV-3 MT 1159			1247	WRBL-3 GA 853			24	1232	WGBD-2 SC 916
14		1135	WEDU-3 FL 1192			1255	WKRK-5 AL 967				2012	WPBT-2 FL 1372
			WESH-2 FL 1130				WSB-2 GA 768					WTVJ-4 FL 1372
			WCTV-6 FL 972				WTVY-4 AL 934					WESH-2 FL 1130
			WTVY-4 AL 934			1745	WGBI-4 MS 770					WEDU-3 FL 1192
		1155	WJXT-4 FL 1039				WGBD-2 SC 916			2033	WEDU-3 FL 1192	
			WEAR-3 FL 986				WCIV-4 SC 916			2035	WSAV-3 GA 933	
			WRBL-3 GA 853				WPBT-2 FL 1372			2058	WJXT-4 FL 1039	
		1300	WKRK-5 AL 967				WTVJ-4 FL 1372			2137	KMOL-4 TX T	
		1407	WDIQ-2 AL 925			2045	KATC-3 AL 1026				KLII-3 TX T	
		1410	WBRC-6 AL			2100	WABG-6 MS				2330	KTBS-3 LA 901
			Birmingham 768				Greenwood 781			25	0004	KTBS-3 LA T
			WAGA-5 GA T			2145	KMLD-2 TX 1176				1745	KMOL-4 TX 1213
		1700	KWGN-2 CO 952				KENW-3 NM 1103				1803	WEDU-3 FL 1192
			KOA-4 CO 952				KAMR-4 TX T				2043	WGBD-2 SC 916
			KRMA-6 CO 952			2152	KWAB-4 TX 1135			Tr	2125	WTTU-30 IL 376
		1730	KTVS-3 CO 837				KFDX-3 TX 945					WKMJ-68 KY 437
			KYCU-5 WY 900				KOB-4 NM 1200					Indianapolis
		"over local 5"				2158	KXTX-5 TX T					U's
						2210	KACB-3 TX 1143				2150	WKPC-15 KY 437

William J. Draeb (continued)

Month	Day	Time	Call	State	Power	Frequency	Notes
June							
25	Tr	2150	WLKY-32	KY	437		
			WDRB-41	KY	437		
			WKON-52	KY			
	Bs	2155	KGNW-3	NM	1103		
			KMID-2	TX	1176		
			KAMR-4	TX	994		
			KOB-4	NM	T		
		2201	KWAB-4	TX	1135		
		2230	KACB-3	TX	1143		
		2250	KFDX-3	TX	945		
		2255	KDFW-4	TX	957		
		2257	KKAS-5	TX	972		
		2300	KBTX-3	TX	1079		
			KPRC-2	TX	1118		
26	Tr	0815	WLKY-32	KY	437		
			WDRB-41	KY	437		
			WKON-52	KY	437		
			WEHT-25	IN	420		
			WCVN-54	KY	407		
			W39AA-39	IN	268		
	Bs	1130	WESH-2	FL	T		
		1645	WTHS-2	FL	T		
			WESH-2	FL	1130		
			WSAV-3	GA	933		
		1648	KBTX-3	TX	T		
		1701	WJXT-4	FL	1039		
		1729	WBRZ-2	LA	1002		
			KJAC-4	TX	T		
			WLBT-3	MS	866		
		1735	WCBI-4	MS	T		
			KATC-3	LA	1026		
		1747	WABG-6	MS	T		
			KALB-5	LA	961		
		1758	WFL-4	LA	1030		
		2037	WEDU-3	FL	1192		
		2045	WTVJ-4	FL	1372		
	Tr	2050	WUTV-29	NY	445		
27		0645	WUAB-43	OH	340		
		0735	Youngstown U's				
			WVIZ-25	OH	355		
		0749	WOSU-34	OH	395		
			WJET-24	PA	405		
			WSEB-35	PA	405		
	Bs	1035	WTHS-2	FL	1372		
			WTVJ-4	FL	1372		
			WEDU-3	FL	1192		
28		2011	KMOL-4	TX	1213		
29	Tr	2130	WUTV-29	NY	445		
	Bs	2137	WBAR-3	FL	T		
			WTVY-4	AL	T		
30		1715	KMOL-4	TX	1213		
			KDFW-4	TX	957		
			KENS-5	TX	1213		
			KKAS-5	TX	972		
			30	Bs	1715	KCBN-6	TX 1075
					1801	KBTX-3	TX 1079
						KPRC-2	TX 1118
					2020	KAMR-4	TX 991
						KTVC-6	KS T
						WCBF-2	SC 916
						WCIV-4	SC 916
						WCSC-5	SC 916
					2038	KGNW-3	NM 1103
						KMID-2	TX 1176
						3	Bs 1227
							WCBF-2 SC 916
							WCIV-4 SC 916
							WCSC-5 SC 916
							WEDU-3 FL 1192
							WFAW-3 GA 933
							WFLA-3 MS 866
							WFLD-2 MS 784
							WFLX-4 LA 1030
							KATC-3 LA 1026
							KPRC-2 TX 1118
							1627
							KBTX-3 TX 1079
							WDSU-6 LA 1030
							WBRZ-2 LA 1002
							1630
							KFDX-6 TX T
							1700
							KJAC-4 TX 1080
							KALB-5 LA 961
							1730
							WEAR-3 FL 986
							WKRQ-5 AL 967
							1734
							WDIQ-2 AL 925
							1940
							WCTV-6 GA 972
							2107
							WREB-3 GA 853
							2110
							WUFT-5 FL 1071
							2140
							WTVY-4 AL 934
							2148
							WCBI-4 MS 770
							4
							Tr 0350
							KPLR-11 MO 432
							CKSO-5 OH 350
							CKSO1-3 OH 270
							to
							CKSO2-3 OH T
							CKNC-9 OH 350
							CJIC-2 OH 200
							0455
							CKNC1-7 OH 270
							Es 0915
							CKCW-2 NE T
							GBHT-3 NS 1170
							CHSJ-4 NB 1085
							0930
							GJCH-5 NS 1170
							0951
							GJHR-3 QB 951
							1300
							CFCH-4 QB 803
							CKMI-5 QB T
							CHAU-5 QB T
							1305
							WTHS-2 FL T
							1306
							WREB-3 GA T
							1311
							WCBF-2 SC T
							1316
							WEAR-3 FL T
							1643
							WUND-2 NC T
							WTVY-3 VA T
							Tr 1855
							WDIO-10 MN 286
							WDSE-8 MN 286

"Es got off to a slow start. Unusual type reception of KTVN-2 on 6-9. Very rapid flutter but slow fading. Other stations received had snow free sigs and slow fading. Had possible KCRI-4 also with same type reception but KOA & KTVX too strong for any ID. All Upper Peninsula Michigan stations snow free on 7-4. WABO-12 noted off the air following hvy thunderstorm (ended here around 1900). Still not on at 2130. Here's a scoop on the reason WABO-12 is off: from that line of thunderstorms that moved through there (and later through here) they had winds up to 150 MPH which took down their tower. It also toppled a radio tower in Rhineland. We didn't have much wind here when the storms moved through but there was plenty of lightning, thunder and rain. In lower Michigan the same storms produced tornadoes. This is the second time WABO-12 was put off the air. The first time (a few years ago) an airplane ran into their tower, toppling it. Lots of DX since 6-8, particularly Bs. I did notice an absence of Bs from Western Canada, however."

Jim Gould R.R.#3 Kokomo, Indiana 46901 (317)452-9585 (EST)		June		July	
1	Es 1800 KIII-3 TX 1102	12	Es 1000 CHAU-5 QB 1160	21	Es 1900 WCTV-6 GA
	1804 KGBT-4 TX 1230		CFCM-4 QB T		Thomasville 700
3	Tr 2200 KOLR-10 MO 445		KTVQ-2 MT 1220	2030	WUFT-5 FL 800
	2230 WAAV-31 AL T		KWGN-2 CO 990		WPTV-5 FL T
4	0700 KOLR-10 MO 445		KTWO-2 WY 1090	2035	WTVJ-4 FL T
	"under WHHI"		1700 KXLF-4 MT 1372	2040	WEDU-3 FL T
			1705 KTVQ-2 MT 1220	2230	KBXT-3 TX 900
	Es 1729 CHAU-2 QB 1250		1728 KID-3 ID 1330	22	LS 0706 WAAV-31 AL 410
	(which one?-bt)		Tr 2155 KHIN-36 IA T	23	Es 1855 KATC-3 IA 793
	1900 KOA-4 CO 990		2158 WHO-13 IA 390		1856 KPRC-2 TX T
	KWGN-2 CO 990		2200 KMBG-14 IA 540	1900	KGBT-4 TX 1230
	2000 KENW-3 NM 1035	13	Es 1730 unID-2 W.N.W.		KRGV-5 TX 1210
	2032 KOAA-5 CO 992		Tr 1830 KPTC-10 MN 396	24	1438 WHS-2 FL 1090
	2100 KRMA-6 CO 990		Es 1859 WPBT-2 FL 1090	25	1003 unID-3 "CB S.R.
5	0845 WEDU-3 FL 925		Tr 2046 KYIN-24 IA 402		It is not Cuba or
	0900 WPBT-2 FL T	14	0700 WTCN-11 MN 485		U.S. Could be Barbados"
	0904 unID-4 Spanish		Es 1230 unID 2-6 south		1128 TV Cubana-3 CUBA
	1029 KWGN-2 CO 990		1617 KDIX-2 ND 970		1130 WPBT-2 FL T
	1100 KOTA-3 SD 940		1630 KOTA-3 SD 940		1135 unID-3 Spanish
6	1729 CHAU-5 QB 1160		1645 KPRY-4 SD		1145 WTVJ-4 FL 1090
	CJBR-3 QB 1020		Pierre 770		1202 Cuba on 2,4,5
	1930 KNOP-2 NE 760		1700 KPLO-6 SD		1558 XEFB-3 NL 1312
	2000 KWGN-2 CO 990		Reliance 740		1600 KIII-3 TX 1102
	KOA-4 CO T		1730 KDSJ-5 SD T		1800 KMID-2 TX 1087
	KRMA-6 CO 990		1800 KFYR-5 ND 842		2032 KOAI-2 AZ 1427
	"ch 6 deep, very in-		Tr 2100 KYIN-24 IA 402		2101 KRGV-5 TX 1210
	tense. Various unIDs		WHO-13 IA 396		2300 KWGN-2 CO 990
	on 5 & 6 west"		KHIN-36 IA 470	26	Tr 0520 WLIC-11 PA 320
	2037 KMGH-7 CO T		KYIN-26 NE T		0525 CKCO-13 ON 350
	2100 KTCU-5 WY 970		2200 KMBG-14 IA 540		0552 KWVI-7 IA 340
	2230 KTVS-3 CO 886		2203 WHLA-31 WI 339		Es 1100 WPBT-2 FL 1090
7	1700 CBHT-3 NS 1170		2232 KDIN-11 IA 396		1530 "Canadian ATV
	1703 CJCH-5 NS 1170	15	0630 KMBG-14 IA 540		Maritime net ch 2,4"
8	1830 CPCL2-2 ON		0645 KBYC-12 MN 470		1615 XEFP-2 Tms 1200
	Kearns 700		1700 KPTC-10 MN 396		XEFP-3 NL 1312
9	0930 KOA-4 CO T		2200 WAOW-9 WI 350		1700 CBHT-3 NS 1170
	1200 KOAI-2 AZ	17	Es 2153 unID-2 NBC W.		CJCH-5 NS 1170
	Flagstaff 1427		"2 hrs behind local"		1800 KIII-3 TX 1102
	1730 KID-3 ID 1330	18	Tr 0845 Des Moines V's		KCKT-2 KS 695
	1800 XEFP-5 MT 1330	19	0444 CHCH-11 ON 380	28	1800 unID 2,3 W.S.W.
	KXLF-4 MT 1372		0455 KDKA-2 PA 320		2000 KWGN-2 CO T
	KRTV-3 MT 1330		0513 WIGU-12 PA 338		2030 unID-2 Spanish
	1900 KTVQ-2 MT 1220		Es 1100 KWGN-2 CO 990		2100 KDIX-2 ND T
	WPBT-2 FL 1090		KOTA-3 SD 940		"very strong semi-
10	Tr 0653 WAAV-31 AL 410		Tr 2230 WDIO-10 MN T		local signals plug-
	0713 WBMG-42 AL 490	20	Es 2027 KCEN-6 TX T		ging low band chs
	2200 WFAE-46 GA 485		2100 KENW-3 NM 1035		in all directions"
	WATL-36 GA		2132 KCKE-2 KS 695	29	1806 WPBT-2 FL 1090
	Atlanta 485		2136 KWGN-2 CO 990		1808 XHY-3 YUG 1350
	2205 WRIP-61 TN T		2200 KNME-5 NM 1173		2132 KWGN-2 CO 990
	2222 WLOS-13 NC T		2222 unID-5 W.S.W.	30	1730 KWGN-2 CO 990
	2224 WJHL-11 TN T		2240 KOAA-5 CO T		KENW-3 NM 1035
11	0043 WCPT-55 TN	21	0940 KWGN-2 CO 990		KAMR-4 TX 931
	Crossville 330		1030 WCBS-2 NY 640		1752 KNME-5 NM 1173
	0410 WTCG-17 GA 485		1032 WNBC-4 NY		1830 KTXT-5 TX 988
	0800 "strong snow-		New York City 640		KMID-2 TX 1087
	free signals from		1725 KRMA-6 CO 990		1950 WGBH-2 MA 785
	Knoxville area"		1759 KCKT-2 KS 695		"band open east &
	Es 1500 KDIX-2		1828 WEAR-3 FL 710		west"
12	0850 unID 2-6 Quebec		1830 WKRC-5 AL		Present log totals: 597
			Mobile 700		

Michael L. Hogan 9224 Cottage Grove Ave. Highland, Indiana 46322 (219)924-2361

June (all times are CST)		8 Es 1830 CJBR-3 QB		July	
9	Es 1730 KID-3 ID			3	Es 1758 CBKMT-4 SK
	Idaho Falls	22	1128 KPRY-4 SD		Moose Jaw
	1759 KRTV-3 MT		Pierre	1958	WEAR-3 FL
	Great Falls				Pensacola

"All stations above are new bringing log total to only 49 with 15 on Es. States logged are IL, MI, IN, WI, FL, NE, TX, GA, IA, SD, ID, MT, provinces Quebec & Sask."

John F. Combs 2485 Ivan Ct. Orlando, Florida 32807 (305)671-4866 (EDT)

"Looks like a Pat Dyer-sized report this month, hi! And on rabbit ears none-theless. The tropo has been nice, tho what I wouldn't give to have my dish and preamp up! The new location is interesting--WDBO-6 isn't as much of a problem as I thought, but both it and WFTV-9 are causing a bit more adjacent-channel interference due to being 7 mi. closer than before. Also lots of GBers in neighborhood--am installing high-pass filter! Hope to have VHF antenna up in 1-2 weeks; the dish will have to wait 4-6 weeks due to various delays...finally found someone in town who would sell me less than 1000 ft. of coax!!...73"

June			12 Tr	0012	WKRQ-5 AL	417	14 Es	1952	KOTV-6 OK	905			
6 Tr	0850	Panama City V's		0013	WAFB-9? LA	T		1958	KARD-3 KS	1025			
Es	0850	WFSB-3 CT		0025	"WLCT-10 an-				KCKT-2 KS	1105			
	0920	WBZ-4 MA	1100		nounces picture in-				KTFW-2 OK	905			
		WGBH-2? MA	T		terference due to			2020	KTFV-4? OK	T			
	0930	WMAR-2? MD	T		'unusual atmospheric		15 Tr	0745	Tampa-St Pete				
		plus unIDs			conditions'--HI!"				WXLT-40 FL	180			
	1000	"had to leave"		0030	"Heard local				WSAV-3 GA	160			
	1635	"CCI 2, 3			2-meter hams going				WTOC-11 GA	160			
	1640	WGR-2? NY	T		wild--contacts be-				unID-5 CBS				
	1730	CHNB-4 ON	1216		ing made to Charle-				WVJW-16 SC	185			
	1748	CJOH-1-6? ON	T		ston, Mobile, Miami				WJCI-22 GA	160			
	1759	WHEW-4 NY	986		area, etc."			0815	WBVU-26 FL	250			
		WPSX-3 PA	856		0103 unID-12 Ø	WYES							
	1811	CKRN-4? ON	T		0603	WCKT-7 FL	191	16	Back at Orlando:				
	1813	WTVH-5 NY	1036			WELG-10 FL	191	Es	1020 unID-2				
	1815	CKGN-2-2? ON	T		0638	WCTV-6 FL	226		2050 unIDs 2, 3				
	1835	WSYR-3 NY	1036		0640	WYUB-8 LA	525	17	1030 "CGI ch 2"				
	1845	"2-6 complete-			0653	WCIX-6 FL	226		1915+ unID 2,3				
		ly demolished by CCI"			0655	WTVJ-4 FL	187	19 Tr	0630 WCTV-6 FL	226			
	1855	WRGB-6? NY	T		0700	WTOC-11 FL	242	Es	1715-unID 2-5				
	1859	CKVR-3 ON	1096						"Canadians"				
	1930	CKG02-2 ON	1133	13	At High Springs, FL:			20	1835+ unID 2-5				
8	0833	WKYC-3? OH	T	Es	1912	KMID-2 TX	1185		"Canadians"				
		WHEW-4? NY	T		1916	KENW-3? NM	T	21	0940 "CGI chs 2,3"				
	0835	WSYR-3? NY	T		1918	KMOL-4? TX	T		1029	WJKB-2? MI	T		
	0836	WGR-2? NY	T		1940	KPRC-2 FL	785		1535	WJKB-2? MI	T		
	0839	CHNB-4? ON	T	Tr	2000	KDKA-2? PA	T		1542	WTOM-4? MI	T		
	0847	CKVR-3 ON	1096		Tr	2005	WJHG-7 FL	170	1558	WJMN-3 MI	1253		
	0900	CBLA-5? ON	T	Es	2029	KBTX-3 TX	820	22	1905 "CGI chs 2,3"				
	0931	CKG02-2? ON	T	Tr	2114	WFLA-8 FL	140	23	1020 "CGI chs 2,3"				
	2038	"CCI 2, 3"		14	0730	WFLA-8 FL	140		1818	WHEW-2 IL	987		
	2040	unID-3 NBC				WTOC-11 GA	160		1820	WISC-3? WI	T		
	2130	"f/out"				WTVT-13 FL	140		1852	WITI-6? WI	T		
9	1530	"CCI 2"				WTWT-13 FL	140		"no CGI on 4, 5 at				
	1928	WWJ-4 MI	968			WJCI-22 GA	160		this time--strange"				
		WKZO-3 MI	1036			WXLT-40 FL	180		1853	WTML-4? WI	T		
	1929	WCMH-4 OH	797			WTOG-44 FL	140		1855	WJMN-3? MI	T		
	1935	WHEW-5 MI	1041		0735	WSAV-3 GA	160	24	1228+ "CGI chs 2-6				
		WJIM-6? MI	T			unID-5 CBS			all day"				
	1955	KTVO-3? MO	T			WJHG-7 FL	170		1630	CKGN-2-2? ON	T		
	2006	WJKB-2 MI	965		0745	WALB-10 GA	145		1630	CKG02-2 ON	1133		
	2011	WHBF-4? IL	T			WREL-3? GA	T		1654	CKVR-3 ON	1096		
	2019	WKYC-3? OH	T			0815	WMBB-13 FL	160	25	1620 "t/in: another			
	2024	WCIA-3 IL	951			0818	WBVU-26 FL	250		all-day opening"			
Tr	2300	Panama City V's				0840	WBVU-3 FL	140		1650	KXAS-5? TX	T	
10	0935	Panama City V's				WTFM-9 GA	225			1652	KACB-3? TX	T	
	0745	WJHG-7 FL	274		0843	WCWB-41 GA	200			1652	KAMR-4 TX	1301	
	0800	WALB-10 GA	244			WMAZ-13? GA	T			1707	KOCO-5? OK	T	
	0805	WCTV-6 FL	226			0900	WUSF-16 FL	140		1700--1730 unIDs			
	0855	WPBT-2 FL	191	Es	1539	WOWT-6 NE	1185			1828	KGLO-3 IA	1264	
	0900	WTVJ-4 FL	T			KLNE-3? NE	T			1828	WHEW-4? IL	T	
Es	1805	unID-2				1549	KTFV-2 MO	765		2059	KIII-3? TX	T	
	1915	unIDs 2, 3				1550	WMT-2 IA	T			KRGV -5 TX	1020	
Tr	2328	WVUE-8 LA	525			1558	KHAS-5? NE	T			"previously by Tr"		
	2340	KPLC-7 LA	712			1600	WOC-6? IA	T		2059	KRIS-6? TX	T	
	2346	WYES-12 LA	525				KGLO-3? IA	T	Tr	2110	KACB-3? TX	T	
	2349	WAL-4 LA	533			1630	KTVO-3 MO	935		2228	WJHG-7 FL	274	
	2351	WDSU-6? LA	T			1648	KUSD-2? SD	T	Es	2228	KDFW-4 TX	967	
	2355	WMBB-13? FL	T			1657	KMTV-3? NE	T	Tr	2230	WFSU-11 FL	230	
	2358	WTOK-11 MS	T			1800	KSNB-4? NE	T			WECA-27 FL	221	
		WALA-10? AL	T				WDAF-4 MO	T			WMBB-13 FL	263	
											2237	WCTV-6 TX	226

John F. Combs (continued)

June		28 Tr		0724		WSFA-12 AL 380		1 Es		1737		KGBT-4 TX 1023				
27	Es	1128	"2-6 jammed"	0725	WECA-27 FL 221		WECA-27 FL 221						KRGV-5 TX 1020			
			WRGB-6? NY T		WKAB-32 AL 394		WKAB-32 AL 394						1741 KENS-5? TX T			
			WTVH-5? NY T		WYEA-38 GA 341		WYEA-38 GA 341						1742 KIII-3 TX 978			
		1129	WBEN-4 NY 986		0728 WALA-10 AL 415		WALA-10 AL 415						1746 KRIS-6 TX 988			
			WPTZ-5? NY T		0729 WTVY-4 FL 299		WTVY-4 FL 299						"under WDBO"			
		1130	"had to leave"		0842 WJCL-22 GA 242		WJCL-22 GA 242						1836 KMID-2? TX T			
		1400	"back, still 2-6"		unID-20 CCI		unID-20 CCI						2153 unIDs 2, 4			
		1406	KTVO-3 MO 1039		WDHN-18 AL 301		WDHN-18 AL 301						2	0746 "Es starting		
	Tr	2107	Panama City V's		Es 1243 KIII-3? TX T		KIII-3? TX T							on 2, but had to go		
			WCTV-6 FL		1430 KFDX-3 TX 1078		KFDX-3 TX 1078							to work..."		
			WFSU-11 FL 230		1930 "Es starting		"Es starting							1433 "Return; light		
			KATC-3? IA T		again...had to leave"		again...had to leave"							CGI on 2"		
		2118	WECA-27 FL 221		Tr 2335 WJHG-7 FL 274		WJHG-7 FL 274							1648 WFSB-3 CT 1034		
		2205	WALA-10 AL 415		29 0747 WSAV-3 GA 242		WSAV-3 GA 242							1708 WMAR-2? MD T		
			WKRQ-5 AL 417		unID-12 Ø CCI		unID-12 Ø CCI							WPAR-3? VA T		
		2211	WBRZ-2? IA T		0749 WDHN-18? AL T		WDHN-18? AL T							2340 "Still CCI on		
		2213	WDHN-18 AL 301		WTVY-4? AL T		WTVY-4? AL T							2, 3"		
		2317	WTVY-4 AL 299		0756 unID-2 CCI		unID-2 CCI							3	1650 "Ø CCI on ch 2"	
		2328	WGIQ-43 AL 329		WALE-10? GA T		WALE-10? GA T								1830 KTVI-4 IA 1329	
		2350	WDIQ-2 AL		0757 WJCL-22 GA 242		WJCL-22 GA 242								1840 WKYC-3? OH T	
			Dozier 350		WTOG-11 GA 242		WTOG-11 GA 242								WTAB-4 PA 815	
			"been trying for		0833 WFSU-11 FL 230		WFSU-11 FL 230								1842 KDKA-2? PA T	
			this one since '73		WMBB-13 FL 263		WMBB-13 FL 263								1843 WWS-5? OH T	
			and now I get it on		Es 1058 WJHK-2? MI T		WJHK-2? MI T								1850 "had to leave"	
			rabbit ears--life		1110 WKYC-3 OH 887		WKYC-3 OH 887								2215 "Return; still	
			is weird..."		1728 unIDs on 2		unIDs on 2								in"	
	28	0003	WSFA-12 AL 380		Tr 2300 Panama City V's		Panama City V's								WDAF-4 MO 1048	
		0724	WEAR-3 AL 401		WCTV-6 FL 226		WCTV-6 FL 226								KTTV-3 MO 986	
			WCTV-6 FL 226												5	1000 "Light CCI on
			Panama City V's		July										ch 2"	
			WFSU-11 FL 230		1 Tr 0130 WCKT-7 FL 191		WCKT-7 FL 191									
					Es 1655 unID-2 Ø CCI		unID-2 Ø CCI									

Ken Simon		528 Pilgrim Road		West Palm Beach, Florida		33405		(EDT)						
June		12 Tr		2130		WUNG-58 NC		24 Tr		1428		WJWJ-16 SC		
1	Tr	1745	W69AA-69 FL 45				Concord						1628 WJCL-22 GA	
2	Es	1948	WFSB-3 CT 1180				W69AA-69 FL						1936 WRJA-27 SC	
		1959	WKZO-3 MI 1150				2335 unID-26 "CCI						unID-33 CCI	
		2022	WPSX-3 PA T				over WSVU"						25 Es	1032 unID 2, 3
4	Tr	0730	W69AA-69 FL				13 0605 W69AA-69 FL							1200 KYTV-3 MO
		1806	WFSB-3 CT 1180				0745 WJCL-22 GA							"from here to about
5	Es	0900	WFSB-3 CT 1180				WECA-27 FL							2100 with minor
			"MUF up around 94Mhz"				WYEA-38 GA							breaks FM in with
		1744	WCIA-3 IL				unID-40 "weak"							minor breaks FM in
		1810	WMT-2 IA				WCWB-41 GA							with minor breaks
		1829	KTVI-2 MO				0800 WHAB-46 GA							FM in with MUF at
			KTVO-3 MO				0832 WFTV-30 GA							times up to 107 MHz"
6		1858	CKVR-3 ON				WJWJ-16 SC							1345 KRIS-6 TX
7		1859	KTBS-3 IA				Es 1745 unID-2 "weak"							1836 KYW-3 PA
9		1928	KTVO-3 MO				Tr 1745 WJWJ-16 SC							Tr 1836 WJWJ-16 SC
		1930	WMT-2 IA				Es 2000 WCBS-2 NY							WRJA-27 SC
		2000	WAVE-3 KY				14 Tr 0430 W69AA-69 FL							WJCL-22 GA
10	Tr	2015	WJWJ-16 SC				Es 1317 WMT-2 IA							1925 unID-33 CCI
			WJCL-22 GA				KTVO-3 IA							Es 2143 KIII-3 TX
			WECA-27 FL				1435 "at this point							KRIS-6 TX
12		2130	WEBA-14 SC T				I switched to FM as							26 Es 0854 WAVE-3 KY
			WJWJ-16 SC				2, 3, 4 were unread-							Tr 1859 WPSX-3 PA T
			WCCE-18 NC				able; MUF went in							Tr 1859 WJCL-22 GA
			Charlotte				107 MHz range"							Tr 1859 WJCL-22 GA
			WJCL-22 GA				Tr 1651 WJWJ-16 SC							Es 1330 unID-2
			WOLA-25 SC				WJCL-22 GA							Tr 1735 WJWJ-16 SC
			WRJA-27 FL				Es 1930 WDAF-4 MO							WJCL-22 GA
			WJPM-33 SC				19 Tr 0630 WJCL-22 GA							26 Es 0630 WJCL-22 GA
			Florence				20 Es 1933 unID-3 CBS							0648 WJWJ-16 SC
			WRBT-36 NC				21 1932 unID 2-4							WTOG-17 GA
			WRLK-35 SC				22 Tr 2116 WJCL-22 GA							WEBA-14 SC
			WUNJ-39 NC				23 1800 WJCL-22 GA							WHAB-46 GA
			Wilmington				1830 WJWJ-16 SC							0654 WECA-27 FL
			WTVI-42 NC				2115 WKYC-3 OH							WKAB-32 AL
2200			Charlotte				24 1320 unIDs 2, 3							WYBA-38 GA
														0726 WCWB-41 GA

WESTERN TV-DX

Doug Everitt
1710 W Maine
Enid OK 73701
(405) 233-4890
Deadline: 10th

Es conditions in the WTV zone seem to have been good over the past reporting period, and in Manitoba, both double-hop skip to Alaska and hi-band skip were noted. In Oregon, some slight hi-band activity was noted, and there was a double-hop opening into South Texas.

Don't forget that August is one of the best months of the year for Meteor Scatter DXing, with several good showers spread throughout the month. Why don't you give it a try?

Due to insufficient response, the MS/Au on Built-In Aerials listing has been cancelled.

These reminders: underlined loggings are new to the reporter in question; those with a question mark are tentative; all others are assumed relogs, unless the reporter does not underline new loggings in the first place. I'd like to encourage all reporters to underline their new ones; don't be ashamed if you're in a new location, or just beginning, and have a lot of new loggings. After all, you have to start somewhere. Please restrict your tentative loggings to a reasonable number, and do not make wild guesses. Also, bear in mind that distance figures are in miles, unless noted as km. For the time being, it would probably be best for North American reporters to stick with miles.

By the way, I'd like to encourage early mailing of reports... recently, reports from within the U.S. have taken as long as five days to reach me, and many of you have been cutting it awful close to the deadline, so please bear this in mind when mailing.

We have an overseas reporter this month, in the person of Terry Robinson, of Woodend, Victoria, Australia. We hope to receive regular reports from you, Terry!

Fred McCormack, Des Lacs, North Dakota 58733 (CDT) (May & June)

9-inch b&w receiver, JFD CW-48 antenna

M 13 Es 1226 unIDs 2 & 3	06 Es 1510 WBTW 3 NC 1375	17 Es 1759 KATC 3 LA
<u>J 04</u> Es 1918 KATC 3 LA	1529 WFMY 2 NC 1390	1805 KPRC 2 TX 1330
2030 MUF 107.9 MHz	1600 MUF 107.9 MHz	1829 WPSX 3 PA 1230
2143 KRON 4 CA 1275	1700 WSYR 3 NY 1275	2200 KTEW 2 OK 880
2153 KENW 3 NM 970	WEWS 5 OH 1075	19 Es 1055 MUF 90.7 MHz
05 Es 0755 WTAR 3 VA 1490	1930 CKRN 4 PQ 1030	1157 WMAB 2 MS 1215
0829 WBTW 3 NC 1375	MUF 107.9 MHz	1300 WREC 3 TN 1085
0845 MUF 106.5 MHz	2345 CBOT 4 ON 1220 (PQ)	1313 MUF 95.5 MHz
0900 WRBC 3 TN 1230	07 Es 0958 WAVE 3 KY 1040 (IN)	1329 KBTX 3 TX 1245
0930 WNGE 2 TN 1125	0959 WTWO 2 IN 940	2155 KIEM 3 CA 1215
0959 WGMH 4 OH 1075	17 Es 1000 WHSV 3 WV 1175	2159 KOTI 2 OR 1060
1002 MUF 94.9 Miami Bch	1059 WMAB 2 MS 1215	* 2258 KORK 3 NV 1085
1030 WREC 3 TN 1085	1100 WEAR 3 FL 1420 (AL)	* 2330 KTVK 3 AZ 1165
1052 WEAR 3 FL 1420 (AL)	1129 WLBT 3 MS 1250	KPHO 5 AZ 1165
1113 WAGA 5 GA 1335	1200 KJAC 4 TX 1310	2354 KDBC 4 TX 1165
1200 MUF 96.5 MHz	1229 WBRZ 2 LA	25 Es 0110 KCRB 3 CA 1210
1230 KPRC 2 TX 1330	1253 MUF 89.9 MHz	0113 MUF 91.3 MHz
1400 MUF 107.9 MHz	1259 WNGE 2 TN 1125	tr 0135 <u>CBKFT</u> 13 SK
06 Es 0845 MUF 107.9 MHz	1355 KORK 3 NV 1085	Regina, 205mi.
1129 KARK 4 AR 1040	1529 KVIQ 6 CA 1215	Es 2130 KALB 5 LA
1130 KFSM 5 AR 955	1630 WLBT 3 MS 1250	26 Es 0300 KDFW 4 TX 1110
1228 KENW 3 NM 970	1641 WEAR 3 FL 1420 (AL)	1029 KMID 2 TX 1115
1300 WMAB 2 MS 1215	1700 WBRZ 2 LA	1308 KOTI 2 OR 1060
1330 KTEW 2 OK 880	KETS 2 AR 1065	* 19 Es 2300 KTVU 2 CA

John Anderson, Box 186, Lowe Farm, Manitoba ROG 1E0

May 1977

16 tr 2325 WTCN 11 MN 360	30 Es 1900 WSJK 2 TN 1150
18 Es 1800-1915 unIDs 2-4	1930 WMAB 2 MS 1185
21 Es 1900 KOAI 2 AZ 1215	WCBI? 4 MS
still in 3 hours later	2000 WLBT 3 MS 1230
23 tr 1405 KELO? 11 SD 400	on monitor, in 5 kHz
24 tr 2200 KQSD 11 SD 305	position, thru CBWFT
western ND above average	2025 KARK 4 AR 1045
25 tr 0750 WDIO 10 MN 300	2050 WFBC 4 SC 1240
26 tr 0000 WDIO 10 MN 300	2100 WUNC 4 NC 1298
KWCM 10 MN 295	WSJK 2 TN 1150
WTCN 11 MN 360	WFMY 2 NC 1266
record hi temps this date	31 AE 0030 unIDs 2-4
30 Es 0033 KATU 2 OR 1220	Es 0105 WRC 4 DC 1226
0045 KVDO 3 OR 1240	0125 KDKA 2 PA 1041
1830 WAGA 5 GA 1270	June 1977
MUF 107.9 MHz	02 Es 2100 KREM 2 WA 943
1845 WSB 2 GA 1270	2200 KATU 2 OR 1220
1855 WSM 4 TN 1048	2220 MUF 4
1900 WTVF 5 TN 1048	05 2E 0410 KFAR 2 AK
WNGE 2 TN 1048	Fairbanks, 2050mi.,
	in weakly til 0500...

(Alaska by double-hop, not too bad, John! ..de)

05 ms 0548 KYTV 3 MO 857
Es 1445 unIDs 2-4
1635 E. Canada 2 & 4
1652 WFMY 2 NC 1266
1700 CFMC 4 PQ 1219
1730 WGBH 2 MA 1344

The following logged 20mi. south of this QTH, @ Altona, using a Delhi 1057 @ 35'...

06 Es 0800 WSB 2 GA 1270
1730 WNBC? 4 NY 1279
WPVI 6 PA 1260
CBOT 4 ON 1052
1800 WRAL 5 NC 1317
WCSC 5 SC 1437
WFBC 4 NC 1240
WCIV 4 SC 1437
1900 WCVB 5 MA 1344
WPTZ 5 NY 1170

John Anderson continued...

06 Es 1930 WSYR 3 NY 1098
 2000 WDSU 6 LA 1337
 WKRK 5 AL 1372
 2032 CCI on 8 south
 2037 CCI on 9 south
 2045 ABC stn on 10
 2055 & 2126 CCI on 8
 2107 KALB 5 LA 1253
 2200 WSYR 3 NY 1098
 2220 WGR? 2 NY 1000
 CBLT? 5 ON 939
 WBEN? 4 NY 1000
 WCBI 4 MS 1182
 2238 CCI on 8
 (you don't note it as such, but I assume the rest of the report is from Lowe Farm, John. Looks like you ought to move to Altona! ..de)
 07 Es 0800 unID 2 Quebec
 1955 WGBH 2 MA 1344
 2223 CBOT 4 ON 1052
 MUF 5 briefly
 08 Es 0014 KDKA 2 PA 1041
 1800 KOCO 5 OK 958
 KFDX 3 TX 1064
 1806 KCKT 2 KS 758
 1930 WPMY 2 NC 1266
 2000 WRAL 5 NC 1317

09 Es 0055 MUF 5
 0100 WDTN 2 OH 927
 WTTV 4 IN 877
 0110 WBBM? 2 IL 693
 0127 WNGE 2 TN 1048
 1830 KTVY 4 OK 958
 KOCO 5 OK 958
 1900 KDCC 4 TX 1300
 XEJ 5 CH 1300
 XEPM 2 CH 1300
 1928 KOB 4 NM 1085
 11 Es 2030 KUTV 2 UT 927
 2200 KAID 4 ID 986
 KBKI 2 ID 986
 12 Es 1230 KUTV 2 UT 927
 1255 KETS 2 AR 1045
 1700 WTTG 5 DC 1226
 1730 WRC 4 DC 1226
 1830 KNME 5 NM 1085
 2200 KNBC? 4 CA 1500
 20 Es 1830 WDIQ 2 AL 1380
 2058 KJAC 4 TX 1344
 2200 WKRK? 5 AL 1372
 2358 KMOL 4 TX 1380
 21 Es 0005 MUF 107.5 MHz
 22 tr 0035 CBKFT 13 SK 342
 0040 CRX 1 11 MB 170
 0045 CCKC 2 SK 324
 25 Es 2150 KPHO 5 AZ 1320

25 Es 2200 KNME 5 NM 1085
 2300 KMID 2 TX 1233
 26 Es 1630 WFBC 4 SC 1240
 1720 WSB 2 GA 1270
 tr 2040 WTCN 11 MN 360
 30 Es 1655 KDCC 4 TX 1300
 1730 KWAB 4 TX 996
 (NEW mode)
 1800 WTVY 4 AL 1392
 1900 WMBW 2 MS 1185
 2000 KALB 5 LA 1263
 2100 KENS? 5 TX 1380
 2115 KNME 5 NM 1085

July 1977

01 Es 0056 KUTV 2 UT 927
 0058 KTVU 2 CA 1477
 0105 KTVN 2 NV 1284
 0125 KCRA 3 CA 1398
 Au 0130 on 2 thru FM
 0215 KDLO 3 SD 305
 Es 1200 WBRZ 2 LA 1337
 2000 Mexican 2
 02 Es 1237 KWGN 2 CO 765
 1239 KUTV? 2 UT 927
 03 Es 1600 WSJK 2 TN 1150
 WTVY 4 AL 1392
 1700 WWL 4 LA 1386

(Looks like a good summer up there this year...de)

Es on the 6th of June was very intense, with definite CCI on semi-local 8 and local 9, but no hi-band IDs. I've never seen hi-band skip before; it certainly was exciting. Also memorable was the opening to Alaska during the wee hours of the 5th. Altogether, it has been a good Es month, with many openings into FM and above. 73 and Good DX = John

Terry Robinson, Lot 92, Russell Ave., Woodend, Victoria, Australia 3442 (GMT +11)

Hills JFFC-3 aerial, hi-gain preamp at 10.67m, Stolle rotator

January 1977

25 tr 0830 ABGN 7 NSW 375km
 0929 SAS 10 SA 590km
 0912 ABS 2 SA 590km

25 tr 0942 CTC 7 ACT 460km
 27 tr 0930 ABNT 3 TAS 500km
 0935 ABKT 11 TAS 300km

February 1977

09 tr 2145 TNT 9 TAS 500km
 16 tr 2339 ABGV 3 VIC 150km
 2345 GMV 6 VIC 150km

The local channels that can be received here are: ATV-0, ABV-2, HSV-7 & GTV-9 (from Melbourne), ABC-TV-3 & BTV-6 (from Ballarat), in two different directions; the rotor helps here. Surprisingly, we can also get a (monochrome) picture from GLV-10 (Sale) at 140km. This channel relays BCV-8 in nearby Bendigo, but BCV cannot be received by me because it is crammed into the 7 MHz between HSV-7 and GTV-9 (Melbourne). I am quite surprised that we can receive Ballarat television, as the transmitters are at 140km over mountainous country, and the pictures we receive (after amplification) are first class, even allowing for the rather difficult problem when receiving PAL color. No doubt, NTSC color would be easier to receive, because the NTSC color subcarrier is at 3.37 MHz, while the PAL subcarrier is at 4.433 MHz, meaning the color would drop out of a PAL picture sooner than it would with a NTSC picture. (This report passed through several sets of hands before reaching this column, so we apologize for the delay in getting it into print. In any case, welcome aboard, Terry! And yes, my fellow North Americans, there is a channel '0' there....de)

W.T.Ryan, 651 Battery St., Victoria, British Columbia

December 1976

10 Es 1930 KNXT 2 CA 1050
 1943 KORK? 3 NV 950

04 Es 2100 XHBC? 3 BCN 1200
 06 Es 1608 XHBC? 3 BCN 1200
 1955 KLNE?/KMTV? 3 NE

11 Es 2000 KTVS 3 CO 1100
 2100 KUTV 2 UT 750
 12 Es 1430 KOAI 2 AZ 1100
 1500 KVOA 4 AZ 1300
 o/KOMO-4...

January 1977

29 Es 0800 KENW 3 NM 1450

08 Es 1730 KTVK 3 AZ 1200
 09 Es 1100 KLNE 3 NE 1250
 1300 KTVS 3 CO 1100
 1330 KORK 3 NV 950

15 Es 1030 KORK 3 NV 950
 16 Es 1030 KOAI 2 AZ 1100
 1300 ROTA 3 SD 950
 1530 KTWQ 2 WY 900
 1600 KTVQ 2 MT 700
 KTVS 3 CO 1100

May 1977

18 Es 0832 unID 2 tp
June 1977

02 Es 2002 CKSA 2 AT 650
 04 Es 1545 KNXT? 2 CA 1050
 1600 XHBC? 3 BCN 1200
 1700 KOAI 2 AZ 1100
 1703 MUF 89.9 to W.TX
 1900 KTVS 3 CO 1100
 2015 KWGN 2 CO 1050

10 Es 1700 KPHO 5 AZ 1200
 audio ID o/KING-5...
 1710 MUF 104.7 MHz
 1730 KORK 3 NV 950
 1830 KTVK 3 AZ 1200
 11 Es 1750 KCRA? 3 CA 700
 1900 KWGN 2 CO 1050
 KOTA 3 SD 950

17 Es 0900 KTVU 2 CA 750
 1330 KWGN 2 CO 1050
 1400 KTVS 3 CO 1100
 1555 KEYT? 3 CA 1000

W.T.Ryan continued...

17 Es 1625 XHBC 3 BCN 1200
ad for Calexico CA
1700 MUF 104.7 MHz
2100 KOTA 3 SD 950
24 Es 1500 KORK 3 NV 950
1630 KTVK 3 AZ 1200
1700 MUF 104.7 MHz
1955 KWGN 2 CO 1050
25 Es 1100 KORK 3 NV 950
2300 XHBC? 3 BCN 1200
2330 KORK 3 NV 950
26 Es 2050 XHBC? 3 BCN 1200
28 Es 2100 KOTA 3 SD 950

28 Es 2100 MUF 107.3 to KS
2130 KTVS 3 CO 1100
2200 KYUS 3 MT 800
KTWO 2 WY 900
29 Es 1200 KOTA 3 SD 950
1300 KDLO 3 SD 1300
1320 KDIX 2 ND 950
1330 KGFE 2 ND 950
1340 MUF 92.1 to MB
1400 CBWFT? 3 MB 1200

01 Es 1850 XHBC? 3 BCN 1200
1930 KENW? 3 NM 1450
2000 KOAI 2 AZ 1100
KTVK 3 AZ 1200
02 Es 1105 CKSA 2 AT 650
03 Es 1730 KOAI 2 AZ 1100
04 Es 1600 KOAI? 2 AZ 1100
1618 XHBC 3 BCN 1200
1630 KTVK 3 AZ 1200
1700 KNXT 2 CA 1050
1730 KORK 3 NV 950
1830 KUTV 2 UT 750
2100 KOTA 3 SD 950

July 1977

01 Es 1820 KNXT 2 CA 1050
1838 MUF 94.5 to TX

I've been a member of WTFDA since 1972, but this is my first report. I DX using a 16" RCA color portable, with an attic antenna pointed at Seattle. This, plus the strong signals from the Seattle stations, greatly limits what I can receive on channels 4 & 5. Tropo seems almost nonexistent around here, except for 'local' inversions enhancing Seattle-Tacoma reception. The new CKVU-21, Vancouver, has its transmitter in the Gulf Islands, and puts a strong signal into Victoria. Of course, their 1.234 Megawatts helps! By contrast, CBUFT-26, Vancouver, with transmitter on Mt. Seymour, is rarely visible. Of course, a decent UHF antenna would help. Have received KTPS-62 (Tacoma) very weakly, and ditto for KIRO-7's Port Angeles translator on channel 70. (that'd be K7ØDG...de) Wonder if that channel 22 for Seattle ever gets on the air, and what reception will be like. With so little on UHF locally, it seems ironic to have it adjacent to Vancouver's channel....

John Phillips, 4459 Downing Ct., Pleasanton, California 94566 (PDT) (08 Jun - 05 Jul)

08 Es 1630 XHI 2 SON
1657 KENW 3 NM 1055
1700 KMID 2 TX 1183
1708 XHQ 3 SIN 1232
1730 KAMR 4 TX 1140
1757 CFAC 2 AT 992
1758 CBut 2 BC 818
1900 KSNB 4 NE 1301
KWNB 6 NE 1151
1934 KRON 5 SD 1328
1945 KUSD 2 SD 1368
annual auction

loaded 3 & 4 deep
75% of the time. Also
nice tropo into So.
California...
11 tr 1200 KEYT 3 CA 247
Es 1750 KMID 2 TX 1183
1755 KING 5 WA 709
1800 KOMO 4 WA 709
KREM 2 WA 744
1802 KTVY 4 OK 1366
1940 KENW 3 NM 1055
12 Es 1255 KDIX 2 ND 1159
very rare this year
1345 KTVQ 2 MT 888
1350 KMID 2 TX 1183
1351 KENW 3 NM 1055
1425 XEPM 2 CH 963
1535 XHCH 2 CH 1123
13 Es 2010 KMID 2 TX 1183
2025 XEPM 2 CH 963
KENW 3 NM 1055
tr 2030 KEYT 3 CA 247
KEET 13 CA 240

24 Es 2100 CKSA 2 AT 1241
2330 KNOP 2 NE 1163
sign-off
25 Es 1530 XEPM 2 CH 963
KMID 2 TX 1183
KENW 3 NM 1055
1542 KWAB 4 TX 1206
1600 KAVE 6 NM 1055
1630 KDBC 4 TX 963
26 Es 1130 CKCK 2 SK 1253
2010 KNOP 2 NE 1163
29 Es 1900 CKCK 2 SK 1253
1903 CFAC 2 AT 992
01 Es 0930 KNOP 2 NE 1163
KSNB 4 NE 1301
WOWT 6 NE 1414
0934 KHAS 5 NE 1286
1000 KWNB 6 NE 1151
1013 KWGN 2 CO 932
1021 KRMA 6 CO 932
1045 KLNE 3 NE 1193
1100 KTVS 3 CO 1016
KYCU 5 WY 920
1120 KDUH 4 NE 1060
1900 KXON 5 SD 1328
2007 KNOP 2 NE 1163
2015 KWGN 2 CO 932

09 Es 1213 CRCK 2 SK 1253
10 tr 0900 KEYT 3 CA 247
1300 KNXT 2 CA 318
1303 KCOP 13 CA 318
1304 KHJ 9 CA 318
1315 KTVT 11 CA 318
1316 KTLA 5 CA 318
KABC 7 CA 318
1320 KNBC 4 CA 318
Es 1643 KTWO 2 WY 908
1700 KMID 2 TX 1183
KFDX 3 TX 1327
1702 KTVK 6 KS 1204
1710 XEPM 2 CH 963
1729 KENW 3 NM 1055
1750 KAMR 4 TX 1140
1830 KOA 4 CO 932
1848 KWGN 2 CO 932
1858 KRMA 6 CO 932
1900 KTVS 3 CO 1016
KYCU 5 WY 920
1903 KWNB 6 NE 1151
2025 KAUZ 6 TX 1327

14 tr 0844 KHJ 9 CA 318
0855 KEET 13 CA 240
0915 KEYT 3 CA 247
15 Es 1104 KNOP 2 NE 1163
1830 KMID 2 TX 1183
KENW 3 NM 1055
1930 XEPM 2 CH 963
1950 KDBC 4 TX 963
16 Es 0930 KDIX 2 ND 1159
1100 CFAC 2 AT 992
17 tr 0830 KEYT 3 CA 247
Es 1000 KNOP 2 NE 1163
KTVY 4 IA 1395
19 tr 0154 KNXT 2 CA 318
KHJ 9 CA 318

02 Es 1230 CKCK 2 SK 1253
03 tr 0320 KNXT 2 CA 318
KNBC 4 CA 318
KHJ 9 CA 318
KCOP 13 CA 318
good tropo after
a good party!
05 Es 0830 KTVY 4 OK 1366
KTVS 6 KS 1204
(numerous relogs omitted)

Excellent DX this day,
highlighted by great
Es opening with 2-6

Seems like a good Es season so far. However, a big decline in activity was noted for period June 18 thru 23, with no Es at all. Also, good tropo conditions throughout, bringing in Redding ch.7 & 9, Santa Maria ch.12 and Bakersfield Us at least every day. Fine tropo opening into So.Calif. on 6-10. All LA Vs in, but no Us. KHJ-9 very good especially, but cable TV CCI coming from same heading produced heavy interference. Read Buck Battin's comments on the Jerrold JUP-4 antenna. I would have to agree that

John Phillips continued...

it is very much a highly underrated dish. I've made some direct comparisons between the JUP-4 and the CM 4251. I found no detectable difference between them, except that the Jerrold was about 300% easier to set up. I have also had excellent results with Jerrold's DSU-105 UHF preamp. (Thanks for the antenna & preamp comments, John...de)

Rick Samford, 404 S. McNeill, Burnet, Texas 78611 (CST/CDT) (08 Mar - 05 Jul)

RCA 19" XL-100, BTX-111 UHF converter, Winegard KU-420, hi-band yagi

March 1977

14 tr 0035 KXIX 19 TX (15 kW) 21 tr 0930 KAUZ 6 TX 215
25 tr 1030 KCB D 11 TX 290 Es 1700 WCB D 2 SC
29 tr 0825 KED T 16 TX 215 28 tr 0840 KCB D 11 TX 290
KXIX 19 TX 155 KLBK 13 TX 290

April 1977

07 tr 0100 KPLC 7 LA 300 1130 KAUZ 6 TX 215
0755 KLA A 14 LA 390 29 tr 2348 KXIX 19 TX 155
20 tr 2206 KORO 28 TX 210 31 tr 0915 WRBT 33 LA 430
new station on air 0929 WLPB 27 LA 430
1000 KAUZ 6 TX 215

May 1977

03 tr 2132 KCB D 11 TX 290
2135 KLBK 13 TX 290

11 Es 1830 WPBT 2 FL
1855 WTVJ 4 FL

12 Es 2250 WESH 2 FL
15 Es 1828 WFMY 2 NC

1829 WUNC 4 NC
2100 WCB D 2 SC

2155 WCIV 4 SC
16 Es 1653 WESH 2 FL

20 Es 1730 WUNC 4 NC
1858 WWAY 3 NC

June 1977

04 Es 1900 WTWO 2 IN
2000 WDTN 2 OH

06 Es 1828 WEDU 3 FL
09 Es 1820 KID 3 ID

2200 KTVQ 2 MT
10 tr 0855 WAPT 16 MS 500

Es 1658 KORK 3 NV
1713 KVVU 5 NV

1959 KTVK 3 AZ
2011 KOAI 2 AZ

11 Es 1925 KNBC 4 CA
1910 KSBY 6 CA

13 Es 1820 WSAV 3 GA

1828 WDIQ 2 AL

2032 WESH 2 FL

23 Es 1830 WCB D 2 SC

2000 WFMY 2 NC

2029 WSB 2 GA

26 Es 1830 WCIA 3 IL

tr 2229 WMAU? 17 MS 460

2340 WRBT 33 LA 430

27 tr 0005 WAPT 16 MS 500

0030 KPLC 7 LA 300

0905 WAPT 16 MS 500

28 Es 1730 WJBF 6 GA

1741 WCB D 2 SC

1800 WRBL 3 GA

1830 WESH 2 FL

WEDU 3 FL

WCIV 4 SC

30 Es 2000 KTVQ 2 MT

July 1977

01 Es 2120 WITI 6 WI

on KR-5400 receiver

03 Es 1548 KWGN 2 CO

Considering the lack of a suitable antenna for lo-band, as well as the fact that the yagi is rotorless, I suppose I've seen a fairly respectable amount of E-Skip since mid-May. With this antenna system, it's hard to tell how good the skip really is. There are a considerable number of unIDs; probably more than I'ded. There's one advantage to not having a rotor: you either know what you have or you don't; not a great deal of tentatives. There has been occasional 300-500 mile UHF tropo, but nothing to compare with the February ducting to Fort Myers. As with the skip, it's hard to tell how good the tropo really is. The CE at the new KORO-28 in Corpus Christi stated in their QSL letter that they began broadcasting in the equipment testing phase of operation on April 5, 1977. They have a directional antenna, aimed at 315° true, and the transmitter is located in downtown Corpus. I hope all WTFDAers have had, and will continue to have, a fantastic summer DX season. Rick

Dave Pomeroy, 131 Woodlawn, Topeka, Kansas 66606

August 1976

19 Es 1800 KRTV 3 MT
CBC stn 3

1900 KTVK 3 AZ
21 Es 1100 WEDU 3 FL

November 1976

17 tr 0830 KAIT 8 AR
KTEJ 19 AR

Es 1800 WCB D 2 SC
1830 WSB 2 GA

June 1977

14 Es 1800 WMAR 2 MD
1815 WCIX 6 FL

1830 KYW 3 PA
21 Es 1730 WUND 2 NC

21 Es 1800 WPSX 3 PA

1830 WWAY 3 NC

22 Es 0850 CKRN 4 PQ

0900 KYW 3 PA

25 Es 2200 KUTV 2 UT

2230 KID 3 ID

26 Es 2100 KORK 3 NV

30 Es 1800 WBT V 3 NC

1820 WNGE 2 TN

July 1977

01 Es 2010 KTVU 2 CA

2100 KTVN 2 NV

KRGV 5 TX

2130 KUTV 2 UT

tr 2200 KOCO 5 OK

03 Es 1630 Mexicans 2 & 4

2130 WCB D 2 SC

WCIV 4 SC

The following seen on oc-

casation, not regularly:

KTEW-2 OK

KHQ A-7 MO

KMEG-14 IA

KTVJ-16 MO

KOZK-21 MO

KTIN-21 IA

KBIN-32 IA

KHIN-36 IA

Best of DX = Dave

Richard Noel Allen, Billings, Oklahoma 74630 (CST) (01 Jun - 06 Jul)

01 tr 0452 KDZ 24 TX

03 Es 1758 XEW 2 DF

2140 XEZ 3 QR

05 Es 1028 CJIC 2 ON

1030 CKSO 3 ON

1059 WBAY 2 WI

1231 CKCK 2 SK

1235 KGF E 2 ND

1251 KDIX 2 ND

05 Es 1530 CBC stn 2

06 tr 0455 KMTC 27 MO

strong signal received

without aid of antenna

Es 1950 CKPR 2 ON

2100 KBCI 2 ID

09 Es 1645 KORK 3 NV

1700 KVVU 5 NV

1925 KUTV 2 UT

09 Es 2115 KBCI 2 ID

10 Es 1700 KUAT 6 AZ

1800 KVOA 4 AZ

(# 307 and 308)

1800 KEYT 3 CA

12 Es 0859 KRTV 3 MT

1659 KBCI 2 ID

1800 KAID 4 ID

1811 CKCK 2 SK

Richard Noel Allen continued...

<u>12</u> Es 1817 KIVI 6 ID	<u>23</u> Es 1715 WWAY 3 NC	<u>25</u> Es 2203 KXLF 4 MT
2057 XEW 2 DF	1716 WUNC 4 NC	<u>26</u> Es 0132 KTVQ 2 MT
<u>14</u> Es 1700 WTVH 5 NY	1729 WUND 2 NC	sign-off
WBEN 4 NY	1759 WCIV 4 SC	1030 XEW 2 DF
1726 WEWS 5 OH	1805 WUFT 5 FL	KEZ 3 QR
1750 WTAE 4 PA	1830 WEDU 3 FL	<u>01</u> Es 1930 KTVN 2 NV
1859 WSYR 3 NY	WCBF 2 SC	2030 KAIT 4 ID
<u>15</u> Es 1657 KNKT 2 CA	<u>25</u> Es 0925 XHGC 5 DF	<u>02</u> Es 1415 KRTV 3 MT
<u>18</u> Es 1817 WUNC 4 NC	1000 MUF above 108 MHz	KTVQ 2 MT
1819 WCBF 2 SC	1850 WEDU 3 FL	1857 KUTV 2 UT
1822 WWAY 3 NC	WSAV 3 GA	<u>03</u> Es 1800 WUNC 4 NC
<u>19</u> Es 2100 KTV 3 PA	WESH 2 FL	WRAL 5 NC
WSYR 3 NY	1920 WTVJ 4 FL	2100 WTAR 3 VA
<u>20</u> Es 1852 WTTG 5 DC	1931 WCIX 6 FL	<u>04</u> Es 1300 CKCO 2 ON
1900 WPSX 3 PA	1956 WEAR 3 FL	<u>06</u> tr 0458 KCBJ 17 MO
2100 CKCO 2 ON	2000 WEDU 3 FL	0500 KBMA 41 MO
<u>21</u> Es 2058 KUTV 2 UT	2202 KTVQ 2 MT	Log Totals = 308
2100 KTVX 4 UT	KRTV 3 MT	

Frank Aden, 1535 NW Ithaca Ave., Bend, Oregon 97701 (503) 389-5488

<u>November 1976</u>	<u>09</u> Es 1106 KFVR 5 ND	<u>11</u> Es 2000 KDLO 3 ND
<u>21</u> tr 0000 KTVB 7 ID	1130 WDAY 6 ND	2008 KTVQ 2 MT
<u>25</u> ms 2036 KORK 3 NV	1200 KPRY 4 SD	2018 CKYB 4 MB
<u>December 1976</u>	KCKT 2 KS	2020 KFVR 5 ND
<u>05</u> tr 1500 KAIT 4 ID	1230 KDIX 2 ND	2030 WDAY 6 ND
<u>January 1977</u>	KDLO 3 SD	CKX 5 MB
<u>02</u> Es 2000 KCKT 2 KS	1300 KOTA 3 SD	2040 CBWFT 3 MB
KARD 3 KS	1700 KFDX 3 TX	2130 KDIX 2 ND
<u>March 1977</u>	<u>10</u> Es 1230 KTIV 4 IA	<u>12</u> Es 1255 KNOP 2 NE
<u>18</u> Es 2000 KMID 2 TX	1300 KMTV 3 NE	KCKT 2 KS
2005 KENW 3 NM	1330 KQTV 2 MO	1259 KTVS 3 CO
<u>May 1977</u>	WOWT 6 NE	KLNE 3 NE
<u>07</u> Es 2130 KFDX 3 TX	1810 KUAT 6 AZ	1313 KOA 4 CO
2135 KYUS 3 MT	KTVK 3 AZ	1330 KOAA 5 CO
<u>08</u> Es 0120 CKBI 5 SK	KVOA 4 AZ	1445 KYCU 5 WY
<u>29</u> Es 2120 CBWFT 3 MB	KPHO 5 AZ	1800 KTVK 3 AZ
2300 CKCK 2 SK	1844 XEJ 5 CH	1803 KENW 3 NM
<u>June 1977</u>	1852 XEPM 2 CH	<u>15</u> Es 1800 XEPM 2 CH
<u>08</u> Es 2300 KQTV 2 MO	1900 KOAI 2 AZ	<u>17</u> Es 2000 KDLO 3 SD
<u>09</u> Es 1030 KTCA 2 MN	<u>11</u> Es 1800 KLNE 3 NE	KTCA 2 MN
1035 KDAL 3 MN	KHAS 5 NE	<u>21</u> Es 1912 KTVS 3 CO
WCCO 4 MN	1930 KPRY 4 SD	

Not a bad start for 1977, with four new stations. I have just about DXed all my possible Es stations, so I plan to get UHF up later this summer, after convention. If that doesn't work, I may have to move to a new location and start over again... 73a = Frank

Bill Block, 133 SE 31, Portland, Oregon 97214 (503) 234-1809

GE black & white portable with rabbit ears antenna	<u>26</u> Es 0142 KNBC 4 CA 875	<u>02</u> Es 0113 KVOA 4 AZ 1175
<u>June 1977</u>	0200 KEYT 3 CA 820	0117 KTVK 3 AZ 1050
<u>17</u> Es 1930 KNBC 4 CA 875	0220 XHBC 3 BCN 1015	<u>04</u> Es 2000 XHBC 3 BCN 1015
1944 XHBC 3 BCN 1015	0229 KTVK 3 AZ 1050	2001 KNBC 4 CA 875
<u>19</u> Es 1900 KVOA 4 AZ 1175	<u>28</u> Es 1117 KPRY 4 SD 1170	2015 KTLA 5 CA 875
1901 KTVK 3 AZ 1050	<u>July 1977</u>	2030 KTVK 3 AZ 1050
2318 KPRY 4 SD 1170	<u>01</u> 2E 2225 KGFT 4 TX 1950	2036 KVOA 4 AZ 1175
<u>20</u> Es 0002 KTIV 4 IA 1350	2321 KDBC 4 TX 1320	2049 KOA 4 CO 1005
<u>25</u> Es 1415 KORK 3 NV 780	2330 KIII 3 TX 1875	2119 KOTA 3 SD 975
1417 KVVU 5 NV 780		

As you can see, DX has been very good, with skip in almost every day. I sure wish that I could put up a good outdoor antenna. I live in an apartment and no antennas, but the rabbit ears are doing okay for now. (nice going on the Texas double-hop, Bill....de)

Patrick Martin, P.O.Box 14192, Portland, Oregon 97214 (503) 224-0614 (05 Jun - 16 Jun)

<u>05</u> Es 1730 KTVX? 4 UT	<u>07</u> Es 2100 KTVK 3 AZ	<u>09</u> Es 0730 KTIV 4 IA
1800 KID? 3 ID	tr KCBY? 11 OR	<u>10</u> Es 1700 KTVK 3 AZ
<u>06</u> Es 1925 KPRY? 4 SD	<u>08</u> Es 1900 KOAA 5 CO	KVOA 4 AZ
2000 KOTA 3 SD	1930 KOA 4 CO	1723 KOAI? 2 AZ
2030 KPRY 4 SD	1941 KTVS 3 CO	1830 KPHO 5 AZ
2100 MUF to ch. 7!	1945 MUF 108 MHz	1845 KUAT? 6 AZ
<u>07</u> Es 2100 KVOA 4 AZ	tr 2330 KIEM? 3 CA	<u>11</u> Es 1900 KSNB 4 NE
KPHO 5 AZ	2335 KMED 10 OR	1930 KHAS 5 NE

Patrick Martin continued...

<u>11</u> Es 1931 KMTV 3 NE	<u>12</u> Es 1652 KPHO 5 AZ	<u>14</u> Es 1730 MUF 4 vid.
<u>12</u> Es 1430 KOB 4 NM	1655 KVOA 4 AZ	<u>15</u> Es 0730 MUF 5 vid.
2E? 1630 KBTX? 3 TX	2E 1700 KRGV 5 TX	<u>16</u> Es 1330 KDUH 4 NE
Es 1645 KTVK 3 AZ	<u>13</u> Es 1730 MUF 4 vid.	1400 KOTA 3 SD

B.W.Battin, 4305 Pitt, Duluth, Minnesota 55804 (June 1977)

<u>01</u> Es 1200 WBRZ 2 LA 1145	<u>09</u> tr 2210 WFLD 32 IL 405	<u>19</u> Es 2200 WJXT 4 FL 1295
<u>04</u> Es 2100 WESH 2 FL 1410	2245 WSNS 44 IL 405	2220 WSB 2 GA 1010
tr 2245 KSIN 27 IA 365	<u>10</u> Es 1430 KUTV 2 UT 1080	2225 WESH 2 FL 1410
<u>05</u> Es 0930 WSM 4 TN 805	<u>12</u> tr 0015 KAAL 6 MN 220	<u>20</u> Es 1230 WSB 2 GA 1010
1000 WCBI 4 MS 945	Es 1115 WLBZ 2 ME 1160	WESH 2 FL 1410
1030 WWL 4 LA 1170	1535 Mexican 2	1745 WCIV 4 SC 1180
1130 KJAC 4 TX 1180	1650 KAMR 4 TX 965	1755 WCBD 2 SC 1180
<u>06</u> Es 1030 KWGN 2 CO 820	1700 WVAR 2 MD 950	1800 WSJK 2 TN 900
1530 WUNC 4 NC 1030	1705 KDKA 2 PA 765	2030 WWL 4 LA 1170
1535 WCIV 4 SC 1180	1715 KOB 4 NM 1125	2100 WTVY 4 AL 1160
1625 WBZ 4 MA 1085	1730 KOA 4 CO 820	2130 WBRZ 2 LA 1145
1700 WFBC 4 SC 990	1800 WLBZ 2 ME 1160	2230 KMID 2 TX 1170
1725 WNBC 4 NY 1000	<u>13</u> tr 0050 KCCI 8 IA 370	<u>21</u> Es 0125 WKRG 5 AL 1160
1800 WTVY 4 AL 1160	0100 KTVI 4 IA 365	0130 WEAR 3 FL 1190
2200 WWL 4 LA 1170	Es 1330 CFAC 2 AT 1070	tr 0200 WISC 3 WI 295
2200 KARK 4 AR 840	1331 KBCI 2 ID 1215	Es 1200 WBRZ 2 LA 1145
<u>08</u> Es 0930 WCBS 2 NY 1000	1535 KUTV 2 UT 1080	1230 WTVY 4 AL 1160
1830 WNBC 4 NY 1000	1720 WSB 2 GA 1010	1300 WCBI 4 MS 945
<u>09</u> Es 0045 WSWA 3 VA 910	<u>14</u> tr 0140 WITI 6 WI 335	1400 WUNC 4 NC 1030
0105 KOB 4 NM 1125	0530 KWVL 7 IA 300	WFMY 2 NC 1000
0120 WREC 3 TN 835	0550 WTMJ 4 WI 335	1720 WESH 2 FL 1410
0125 WNGE 2 TN 805	0620 KGLO 3 IA 260	* 1800 WPBT 2 FL 1620
0145 KWGN 2 CO 820	0630 WMT 2 IA 340	1805 WJXT 4 FL 1295
0200 KOAI 2 AZ 1310	Es 1130 KPRC 2 TX 1200	<u>22</u> tr 0105 KWML 7 IA 300
0203 KOA 4 CO 820	1215 WJXT 4 FL 1295	Es 1200 KAMR 4 TX 965
0235 WNGE still coming	1230 WESH 2 FL 1410	1230 KNOP 2 NE 585
in strong! Gave up	1400 WSB 2 GA 1010	1255 KWGN 2 CO 820
and went to bed...	1430 WTVY 4 AL 1160	<u>24</u> tr 0205 WITI 6 WI 335
1130 WFMY 2 NC 1000	1600 KETS 2 AR 840	<u>26</u> tr 0125 WTVO 17 IL 350
1200 WTAE 4 PA 765	1630 KARK 4 AR 840	WCEE 23 IL 350
KDKA 2 PA 765	1800 WDIQ 2 AL 1125	<u>27</u> tr 2010 KAVI 15 MN 220
1230 WGR 2 NY 720	1930 WCBI 4 MS 945	<u>29</u> Es 1250 KWGN 2 CO 820
1700 KMID 2 TX 1170	<u>15</u> Es 0130 KENW 3 NM 1170	<u>30</u> Es 1655 WESH 2 FL 1410
1725 KDBC 4 TX 1310	0145 WREC 3 TN 835	1730 WJXT 4 FL 1295
1800 KTVW 2 WY 755	0150 WTVY 4 AL 1160	
1830 KTVX 4 UT 1080	WNGE 2 TN 805	(some relogs omitted)

*The call letters were clear, but it could have been produced by WPBT airing over another station, like WGBH does a lot. Also could be Es + Gulf Tropo... Tropo has picked up a bit, but I'd still say it's pretty poor. Bruce Elving tells me that tropo here comes alive in the Fall, and the rest of the year is pretty dead. I haven't seen the Fall, but the rest of the year is certainly dead. Duluth log total stands at 108... May thousand-mile ducts smile on your antennas = Buck (Gee, I didn't know ducts could smile, Buck! ..de)

Pat Dyer, 5315 Silvertip Drive, San Antonio, Texas 78228 (CST) (01 - 06 June)

<u>01</u> Es 1629 WNGE 2 TN 820	<u>03</u> Es 1117 WFMY 2 NC 1175	<u>03</u> Es 2050 KVVU? 5 NV 1040
1659 WAVE 3 KY 945	1206 KDKA 2 PA 1280	2135 XHBS? 4 SIN 700
1725 thru 6	1220 WTAE? 4 PA 1280	<u>04</u> Es 0959 WJBK 2 MI 1225
1729 WSJK 2 TN 1010	1225 WFSX? 3 PA 1370	1005 WWJ? 4 MI 1225
1750 MUF 89.7 MHz	1229 WDTN 2 OH 1075	1029 WKZO 3 MI 1140
1753 WBTW 3 NC 1105	1259 WSAZ 3 WV 1100	1059 WCIA 3 IL 935
1759 WSB 2 GA 880	1320 WOAY? 4 WV 1150	1245 WJBK 2 MI 1225
1810 WJBF? 6 GA 1105	WDTV? 5 WV 1220	<u>04</u> Es 1358 MUF 99.1 MHz
1859 WESH 2 FL 1055	1327 WTVR? 6 VA 1325	1657 KTCA 2 MN 1110
<u>02</u> Es 0720 WFMY 2 NC 1175	1359 WSJK 2 TN 1010	1659 WMT 2 IA 945
WOAY? 4 WV 1150	1525-35 WBAY 2 WI	1710 WCCO? 4 MN 1110
0840 WDTN 2 OH 1075	1812 Cuba 2	1932 KMTV 3 NE 830
0847 WAVE? 3 KY 945	1859 WPBT 2 FL 1150	1955 WMT? 6 NE 830
0905 WCBD? 2 SC 1120	1905 WTVJ? 4 FL 1150	KHAS? 5 NE 770
1850 WFMY? 2 NC 1175	XHTV? 4 DF 690	2015 KTCA 2 MN 1110
1925 WSJK? 2 TN 1010	KOAI? 2 AZ 855	KSTP? 5 MN 1110
1929 WSAV? 3 GA 1050	1910 KORK? 3 NV 1050	<u>05</u> Es 1059 KTQV 2 MT 1245
1930 WCBD? 2 SC 1120	1925 WCBD? 2 SC 1120	KID 3 ID 1215
<u>03</u> Es 1005 WCBD? 2 SC 1120	2027 MUF 98.7 MHz	
1022 WCIV? 4 SC 1120	2050 KVOA? 4 AZ 750	

Pat Dyer continued...

<u>05</u> Es 1100 KXJB? 4 ND 1205	<u>05</u> Es 1245 MUF 98.7 MHz	<u>05</u> Es 2152 KTCA 2 MN 1110
1110 KXLF? 4 MT 1365	1259 CBWFT 3 MB 1410	<u>06</u> tr 0859 WGNO? 26 LA 510
1128 KDIX 2 ND 1225	1555-1635 KTCA 2 MN	WRBT 33 LA 450
1129 KGEF 2 ND 1240	1824 KOTA 3 SD 1040	Es 1515-2250 thru 6
1158 KUSD 2 SD 920	1829 KTCA 2 MN 1110	1633 MUF 105.7 MHz
1200 WDAY? 6 ND 1210	1850 WCCO? 4 MN 1110	2140 KGEF? 2 ND 1240
1230 CBWFT? 6 MB 1410	2125 KNXT? 2 CA 1190	2230 KTWO? 2 WY 1015

A few good tropo openings in here amidst the Es pile. In fact, sometimes the tropo is so strong, it covers some Es. 73 = Pat = WA5IYX

Doug Everitt, 1710 W Maine, Enid, Oklahoma 73701

(CDT) (10 June - 09 July)

<u>12</u> Es 1758 KGEF 2 ND	<u>17</u> tr 0903 KOSA 7 TX 410	<u>25</u> Es 1415 XEFB 3 NL
1759 KID 3 ID	0910 KSWF? 8 NM 440	1420 XELN? 4 COA
1825 KPVI 6 ID	0945 KWAB 4 TX 350	1445 XHD 4 TAM
1828 KBCI 2 ID	<u>18</u> tr 2305 KLRN? 9 TX 480	1915 KNXT 2 CA
1900 KAIT 4 ID	KSAT 12 TX 480	KNBC 4 CA
2015 KORK 3 NV	2315 KENS 5 TX 480	KTLA 5 CA
2025 KVVU? 5 NV	<u>20</u> Es 2105 KDKA? 2 PA	KORK? 3 NV
2028 XHBC 3 BCN	2110 WPSX 3 PA	1931 KEYT 3 CA
<u>13</u> Es 1855 WPBT 2 FL	2120 WJBK 2 MI	1934 WJXT 4 FL
1858 WESH 2 FL	WWJ 4 MI	1936 WESH 2 FL
1904 WCBD 2 SC	2208 WTOM 4 MI	1938 WCBD 2 SC
1908 XHY 3 YUC	2219 CKSO? 5 ON	WEDU 3 FL
1915 WEDU 3 FL	MUF 107.9 MHz	MUF 107.9 MHz
tr 1925 KARK 4 AR 350	<u>21</u> Es 1000 WFMY? 2 NC	2059 KATC 3 LA
KATV 7 AR 350	WCBD 2 SC	WWL 4 LA
<u>14</u> Es 1320 WRC 4 DC	1025 WSAZ? 3 WV	<u>26</u> Es 1709 XEFB 3 NL
WTTG 5 DC	WOAY? 4 WV	1721 XEFE 2 TAM
1325 WMAR 2 MD	WDTV? 5 WV	<u>27</u> Es 1050 WESH 2 FL
WTAR? 3 VA	1059 WBBM 2 IL	WEDU 3 FL
1625 WKTU 2 NY	CKVR? 3 ON	WJXT 4 FL
WSYR 3 NY	WTVH? 5 NY	1057 WPTV 5 FL
1630 MUF 107.9 MHz	1100 CKGN 6 ON	1101 WTHS/WPBT 2 FL
1640 WTVH? 5 NY	1810 WUND 2 NC	WCIX 6 FL
1646 WPSX 3 PA	1815 WUNC 4 NC	<u>28</u> tr 1030 KMOX? 4 MO 450
1754 WJBK? 2 MI	WRAL 5 NC	1115 WREC 3 TN 470
1800 WBEN 4 NY	1817 WWAY 3 NC	1129 WMC 5 TN 470
1813 WCMH 4 OH	1900 WCYB 5 VA	1130 WBBQ 13 TN 470
1912 WTAE 4 PA	2050 MUF 107.9 MHz	1135 WMAV 18 MS 500
WPVI 6 PA	2315 thru 5 ne	1140 KAIT 8 AR 410
<u>15</u> Es 0910 KORK 3 NV	<u>22</u> Es 0840 MUF 107.9 MHz	1156 WKNO 10 TN 470
KVVU 5 NV	0859 WSYR 3 NY	1159 KATV 7 AR 350
0912 KOAI? 2 AZ	WTVH 5 NY	Es 1930 WEDU 3 FL
0913 KID 3 ID	0901 WBEN 4 NY	WTHS/WPBT? 2 FL
<u>16</u> tr 1100 KTXS 12 TX 310	<u>23</u> Es 1750 WSWA? 3 VA	<u>30</u> Es 1300 WCBD 2 SC
KLBK 13 TX 280	1758 WBTV 3 NC	1700 thru 5 nw
Es 1725 KNXT 2 CA	1759 WCBD 2 SC	<u>01</u> tr W.MO local level
KNBC 4 CA	WFMY? 2 NC	Es 1310 WCBD 2 SC
KTLA 5 CA	1807 WFBC 4 SC	<u>02</u> Es 1255 WCBD 2 SC
1735 MUF 107.9 MHz	1814 WWAY 3 NC	<u>03</u> Es 1420 WCBD 2 SC
<u>17</u> tr 0815 KMCC 28 TX 280	1815 WRAL 5 NC	WWAY? 3 NC
K73AW? TX	1817 WUND 2 NC	<u>05</u> Es 2000 thru 5 east
0850 KTXT 5 TX 280	WUNC 4 NC	<u>07</u> Es 1000 WCBD 2 SC
right thru KOCO	1833 WEDU 3 FL	1015 WWAY 3 NC
KCBD 11 TX 280	<u>24</u> Es 1723 KORK 3 NV	WFBC? 4 SC
KLBK 13 TX 280	1725 KTVN 2 NV	1720 KEW & XHTV DF
0855 KMID 2 TX 380	KCRL? 4 NV	<u>08</u> Es 1005 WFMY 2 NC
0859 KBIM 10 NM 440	<u>25</u> Es 1015 MUF 107.9 MHz	WCYB 5 VA
KFDW 12 NM 330	1215 XEW 2 DF	1033 WTAR 3 VA
0902 KMOM 9 TX 430	XHGC 5 DF	MUF 107.9 MHz

For the first few days of July, I had very little time to DX, but I hope this will improve as time goes on. I may only have time to jot down the MUF in the log in such cases, since even tentative IDing is often impractical. WCBD seems to be in very regularly this year, as usual, slamming a nasty Ø against KTEW, which doesn't make the cable people too happy, since the complaint calls roll in; in fact, WCBD often dominates the channel on CATV. By the way, Bob Young, 1502 W Broadway, here in Enid, wants everybody to know he's still alive; just hasn't seen much DX due to lack of time. He did mention to me, though, seeing some tropo on the cable after signoff of the regulars, plus some unID Es on his rabbit ears. That should do it for this month... 73 & the Best of DX, *Doug*

the RHOMBIC

Roderick Luoma
Engineer, WJBK-TV
Detroit, Michigan

Every DXer at some time or other in his career has probably wondered what a rhombic antenna could do for his career, reception of those precious microvolts. Unfortunately, the space required for such a project rules out this receptor for most DXers, including myself in my metropolitan location. When I got married some years ago, however, the ideal situation arose due to the fact that my wife's parents live on a forty-acre farm in north central Minnesota. The terrain is quite flat and the area is relatively free of strong local VHF stations (known to the DXer as paradise). Yet there are many distant stations just waiting to be drawn into a thirsty RF amplifier. So I have all the excuses I need! Now all I have to do is convince my in-laws that they need a rhombic. Well, this isn't too difficult a job because they receive with regularity only one network source, that being NBC from KCMT-7 Alexandria MN and its satellite KNMT-12 Walker. Minneapolis, St. Paul, Duluth and Fargo stations are received, but with characteristic fading in the deep fringe area in which they live.

Because I work for a CBS station and another network source is desirable, that is the network I thought would be appropriate. Now the selection is narrowed down to KXJB-4 Fargo, WCCO-4 Minneapolis, and KDAL-3 Duluth. KDAL is the least likely choice at 146 miles. Fargo is the closest at 112 miles, but I chose WCCO at 142 miles because I felt they would provide better local programming, and more TV and FM stations are available in that direction.

Some hours were spent doing research on rhombics. The public library provided some information, but most information was read in the ARRL Handbook and Terman's Radio Engineering. The motivating force, though, that led me to begin this project was the series of articles in July, August and September 1960 issues of DXing Horizons, which described a rhombic installation at Marathon, Ontario on the north shore of Lake Superior. I figured that if reasonably good results can be had of WBAY-2 at 300+ miles, 142 mile reception here should be pretty good!

The name "rhombic" comes from the word rhombus, which means diamond-shaped, the configuration of the antenna as viewed from above. After checking the theoretical gain charts and practical considerations, I decided that 6 wavelengths on a leg would be my choice. However, in view of the fact that KXJB is nearly opposite in direction from WCCO on the same channel, maximum front to back ratio is desired--and to achieve this with a rhombic the leg length should be an odd multiple of $1/4$ wavelength; so I chose $5-3/4$ wavelengths with channel 4 video at 67 MHz as the design center. Using the formulas in the ARRL Handbook, the leg length came to 84.5 feet, the width or short diagonal came to 63.2 feet and the overall length or long diagonal came to 156.6 feet. The lead-in connection is made where the two long sides come together. If the opposite end of the lead connection point is left open, the antenna is narrowband, working well only at the designed frequency and equally well in both forward and backward direction. So to achieve a broadband and unidirectional characteristic, the front end must terminate in an 800-ohm resistance, which is the approximate characteristic impedance of the rhombic antenna. Because of this 800 ohms Z, one can't employ conventional 300 ohm line and expect good results. A logical choice for this problem would be a matching transformer for 800/300 ohms, but I've never seen one and don't have the equipment to build one. Another method would be to use a quarter-wave matching stub, but this idea was discarded because such a device is frequency selective and this would defeat the broadband characteristic we desired in this installation. Another more practical and inexpensive alternative is the tapered transmission line. It is constructed so that the 800 ohms Z of the antenna is connected to the 300 ohm line by 2-20 AWG wires gradually tapered from a distance of 7 inches to $7/16$ inch between them. Polystyrene rods are used to maintain the correct taper. If this taper is done slowly in terms of wavelength, the power transfer is very efficient. In this installation, the taper is accomplished over a distance of 25 feet, or just short of 2 wavelengths on channel 4. I experimented with both the theoretical logarithmic taper and the practical linear taper as described by Terman, and found the linear definitely superior in performance.

A six wavelength rhombic is a very directional antenna with the main lobe being about 6 degrees wide at the 3 dB half-power points, with many minor lobes also existing. Orientation is quite critical and must be determined using a surveyor's instrument. Fortunately, I was able to borrow a surveyor's

transit and a reasonably accurate compass. With my brother-in-law's help, I laid out the proper direction of the long axis of the antenna. I wrote to the Minnesota Department of Highways to find out the magnetic declination in the area (the degree of variance between true north and magnetic north), and with this information I was able to plot on a Highway Dept. map the proper orientation of the antenna. One problem remained: WCCO had applied for a new transmitter location 3 degrees north of its old one. So due to the lack of high accuracy in laying out the antenna and the new tower location, I decided to construct the antenna with a provision to orient it. (A rhombic on a rotor?) Four 25-foot telephone poles are used to support the antenna; each has bolted to its top a double 2x4 extension putting the total height at 35 feet. With four feet under the ground, the antenna height is actually about 30 feet. The front pole has attached to it a 12-foot crossarm at the top with a pulley system to allow a horizontal swing of about 10 feet or 4 degrees. A tractor-mounted post-hole digger was found to be very useful to supplement a manual digger. Erection of the poles proved to be the most treacherous operation, but thanks to a couple of uncles, my father-in-law and a tractor-mounted hydraulic manure scoop, we got the poles up in one piece (although the heavy front pole was in doubt at one point).

The antenna itself is constructed of #14 copperweld wire, which I found to be more than adequate; in fact, any larger wire would be almost impossible to work with. E.F. Johnson #104 insulators were used as well as some custom-made fiberglass blocks made by my brother for use at the antenna lead-in and terminating points. Antenna soldering and assembly were done near the house and carried to the location, raised into position with rope and pulley. Rayon-core plastic clothesline, claiming a 500 lb. capability, was used to support the antenna from the poles.

I chose 300 ohm open-line lead-in because of its low-loss characteristic and relatively low cost. Even though the conductors are #18 copperweld, I discovered from several line breaks that considerable support is necessary. A lighter-weight clothesline was strung parallel to the lead path with suspended snap-type stand-offs (polyethylene) holding onto the spacers of the open-wire line. Regular open-wire stand-offs were found unsatisfactory because the wire had a tendency to break where the screw pressed against it; the continuous flexing caused by the wind created this problem.

A Winegard AP-83 preamp was installed at the head-end near the base of the tapered matching line, with lightning arrestors on either side of the preamp. (This antenna in an open field is a great target for lightning.) Another arrestor was used at the point where the lead enters the house; this apparently wasn't good enough, because the transistor has blown twice due to static electricity! (I solved the problem by removing the preamp; 850 miles is a long way to go for a service call!)

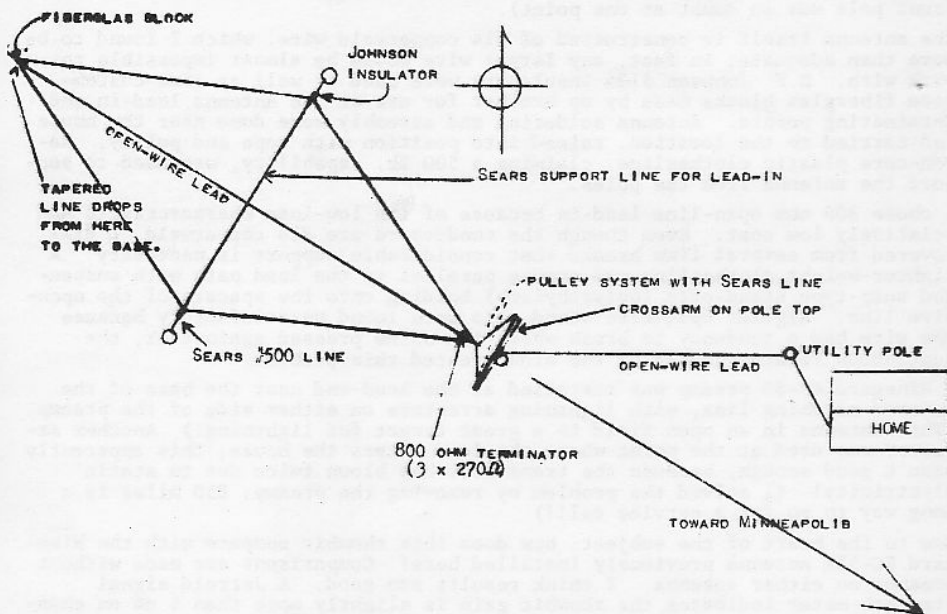
Now to the heart of the subject: how does this rhombic compare with the Winegard SC-55X antenna previously installed here? Comparisons are made without preamps on either antenna. I think results are good. A Jerrold signal strength meter indicates the rhombic gain is slightly more than 6 dB on channel 4, or double the voltage delivered by the Winegard. On KTCA-2 the gain is also 6 dB, and on KSTP-5 slightly lower at 4.7 dB. The test setup enables an immediate switch from one antenna to the other.

Since few of us have a signal strength meter, this doesn't mean an awful lot. What you want to know is what is the difference on the screen? My notes say that the 6 dB increase on channels 2 and 4 is quite evident with appreciable decrease in snow and noise. On channel 5 the signal increase is still quite evident, but not as dramatic as on 2 and 4. When the video drops to unreadable on the Winegard, larger detail is still readily apparent with the rhombic. Also noticed was the reduced effect of MS co-channel interference, due probably to the sharper lobe of the rhombic. Actual signal strengths varied from 0 to 220 microvolts during my observation periods. WCCO-4 was very good to excellent for about 60% of the time, fair only 30%, and poor the remaining 10%. Deep fades would occur occasionally but only last about 5 seconds. What actually appeared to be happening was multipath reception, cancelling each other when 180 degrees out of phase. This seemed to be confirmed by the frequent ghosting that occurred. Most of the poor reception was due to CCI from KXJB-4. Perhaps I can achieve a better rejection of Fargo by varying the 800 ohm termination, as changing the termination resistance is supposed to steer the back lobe of the antenna.

FM radio signals appear to be intercepted quite well, too. The receiver is an old Telex Phonola which is probably not the best in selectivity, but it delivered good stereo 95% of the time from FM stations in the Twin Cities.

Thus, the rhombic has illustrated its broadband performance over the range of 54-108 MHz. But what of high-band TV channels 7-13? Here, unfortunately, it doesn't cut the mustard. Performance is bad, with about 6-8 dB less gain on channel 9 than with the Winegard. This is probably due to what Terman says: that at frequencies much above the center frequency for which the antenna is designed, the main lobe splits into two lobes. It is also stated that at frequencies lower than the designed center frequency, the main lobe broadens until the frequency is 40-50% optimum. Hence, good gain should be achieved to about 30 MHz.

Because of the poor showing on high-band, I decided to use this rhombic only for the FM and low TV bands. Through the use of a high-low antenna coupler, the Winegard SP-55X was used on the high-band channels. A Winegard CA-FMB coupler was used to tap off the FM signals to feed the FM radio, while the remainder of the rhombic signal feeds the 1958 RCA monochrome receiver.



Now you may say that this same signal increase on channel 4 could have been achieved with a pair of 8 or 10 element yagis, and this is probably true, although fading effects may be more severe with yagis due to the smaller capture area. However, what has been achieved is not only stacked yagi reception on channel 4, but also comparable increased strength on other low-band channels and FM frequencies as well. In summation, high-gain broadband performance is achieved at lower cost than a comparable set of stacked yagis by using the rhombic antenna. And besides, most anyone can put up a few yagis, but who has the opportunity to engage in such a challenging project as this in his lifetime?

73, Rod Luoma

ADDENDUM: In the summer of 1970, Rod purchased two Winegard SCY-11 cut-to-channel, wide-spaced yagis for yet another experiment at his in-laws' farm; his hope was to develop reliable reception of KTHI-11 in Fargo at about 112 miles. Unfortunately, this experiment wasn't successful, due to suspected terrain obstructions. KTHI-11 was received, and quite well at times, but not with the 90-95% consistent viewing level desired, according to Rod. --CWI

Memorabilia



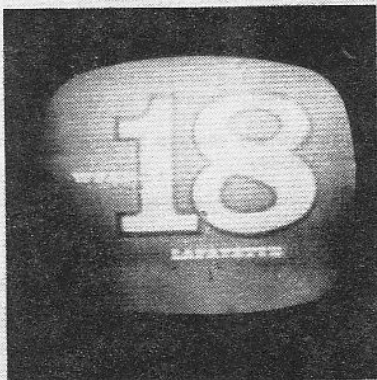
Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 10th of month

August 1977

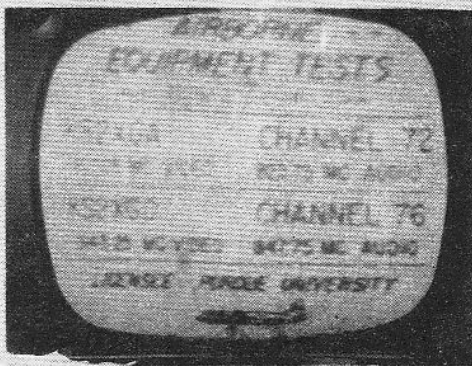
This month, MEMORABILIA again presents some photos of TV-DX of yesterday, courtesy of Bill Draeb of Kewaunee WI:



WFAM-59 Lafayette IN
(now on ch. 18, WLFI)



WFAM-18 Lafayette IN
275 mi. Tr (now WLFI)



Airborne Equipment Tests
KS2XGA Channel 72
KS2XGD Channel 76
(May 1961)

Hope y'all are having a good Es season. 73s, gud DX,

Bob

C.C.I. [UNIDENTIFIED DX]

Frank Aden, Jr.
1535 NW Ithaca
Bend OR 97701
(503) 389-5488
Deadline: 10th

AUGUST 1977 TV GUIDE DOES IT AGAIN!

The Oregon State Edition of TV GUIDE was split into two new editions as of July 9th. The two new editions are the Eugene Edition and the Southern Oregon Edition. The Portland Edition remains unchanged. The Eugene Edition (use EUG for code) contains KEZI-9, KVAL-13, KOAC-7, KATU-2, KOIN-6, KGW-8, KPTV-12, KVDO-3 and KOEI-5. The Southern Oregon Edition (use SOR for code) contains KEZI-9, KVAL-13, KATU-2, KOIN-6, KGW-8, KPTV-12, KCBY-11, KOAC-7, KVDO-3, KOTI-2, KOEI-5, KSYS-8, KTVL-10, and KPIC-4.

Those stations listed in the old Oregon State Edition but not in either new editions are KIEM-3, KVIQ-6, KEET-13 and KRGR-7. I suspect they have been added to the North California Edition or are part of a new edition not yet known here. I hope to have details on their location by next month.

If there are any changes in your edition of TV GUIDE please let me know by sending a card or letter.

FM unIDs

Bruce Elving, 18 $\frac{1}{2}$ E. Fifth St., Duluth MN 55805 (1977 unIDs)

Thu Jun 9 Es 96.9 1815 CDT- -ABC-FM news, station in mono. No SCA. Probable KMTN in Jackson WY but lists for it show it as stereo, not ABC, and with a music SCA. Has it dropped \$ (or drops it during ABC newscasts), taken on A, and quit SCA? Or was it something else. Skip at this time was in from UT and WY.

Bruce also asks identity of a station on 88.7 received by MS (probably to north) by Mike Dalton in Clearwater FL with call "WSF_". Bruce reports he has no idea who it could be. Can anyone help?

Paul Traska, 64 Weaver Ave., Buffalo NY 14206 (1977 unIDs)

Mon Jun 6 Es 90.1 1100 EST- -Could not make out call but sounds like KB with 3rd letter P or T. Not in FM Atlas, new station or new call? Ant. SW.

90.1 1700 EST- -Sign off. Ant. SW.

Thu Jun 9 Es 92.1 1400 EST- -Soft music, The Performers. Station break as Telephone City. TV chs 3 & 6 Winnipeg in. (Could this be CRY? ---FEA)

Frank Aden, Jr., 1535 NW Ithaca, Bend OR 97701 (1977 unID)

Fri Jun 10 Es 103.7 1350 PDT- -"KXQR". No listing of this call in FM Atlas. Format was old rock. New station or new call? PTA: MN, SD, ND etc

TV unIDs

Paul Traska, address above (1977 unIDs)

Thu Jun 9 Es ch 6 0224 EST- -Double Hop! "Night Cap News" with Doug Lund. Not real sure if 2Es but suspects WDAY, KPLO, KWNB or KREZ. (I sure wish TV GUIDE would list actual names of news shows as they are no help in this case. ---FEA)

ch 2 0340 PST- -Double Hop! "TV 2 News Break/State Local". Logo had TV NEWS BREAK at top, above a large 2. Bottom with STATE LOCAL. In and out thru KUTV but weaker. Suspect KTWQ, KTVN, KTVU, KBCI and KOTI.

ch 4 0345 CST- -CST slide with KGIN-11. KSNE? (Probably not as KSNE is ABC and a member of NTV, KGIN, sat. of KOIN-10 is CBS, translator? ---FEA).

ch 3 0358 PST- -"Johnny Carson" ending (NBC). Came in with "Tomorrow Show". At 0409 two girls modeling fashions, at 0418 ad for Chicken. Ferguson--Lombard mentioned. Movie at 0501. Suspects KCRA and KORK.

Paul Traska continued.

(KCRA does not list late night movie but KORK does. ---FEA)

Mike Hogan, 9224 Cottage Grove Ave., Highland IN 46322 (1977 unIDs)
 Mon May 30 ch 3 Es 1930 CST- "Dolly" variety show, PTA: S-SSE. (TV GUIDES for south no help. ---FEA).
 ch 3 Es 2000 CST- "Little House on the Prairie" PTA: as above. (WLBT, WSAV, WRCE all check. ---FEA).
 Sat Jul 2 ch 3 Es 2030 CST- "Monty Python". PTA: SE or WNW. (Probably PBS, KLINE and WPSX are negative, WEDU ran an auction in my edition for the week I have it so unknown. ---FEA).

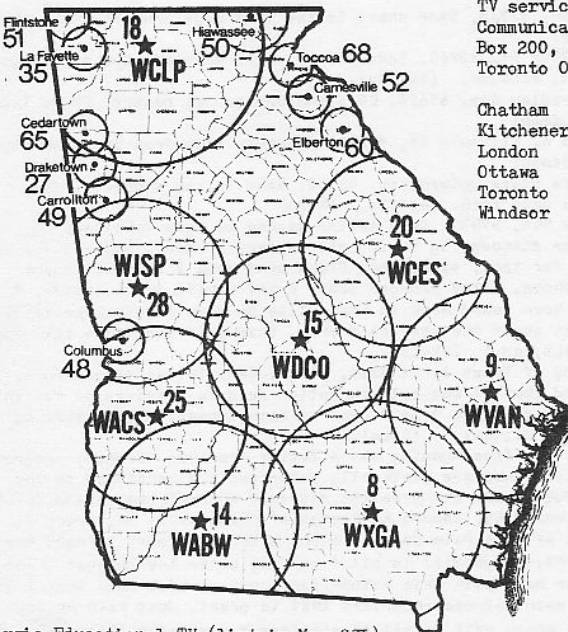
Frank Wheeler, 6589 Wattsburg Rd., Erie PA 16509 (1977 unID)
 Mon Jun 6 ch 4 Es 1727 EDT- Gave call as KSFY. KSFY is on 13. (KPRY is a sat. of KSFY, I have seen the KSFY ID on KPRY many times also, ---FEA).

Robert Williams, 251 6th Ave. East, Twin Falls ID 83301 (1976 and 1977 unIDs)
 Sun Jun 27 ch 4 Es 1008 MDT- "Oral Roberts". Suspect KAMR, KWAB, KMOL, KGBT, KDFW, KDBC, KJAC, WVL, KTVY and KOB. KPRC-2 at 1058, KBTX-3 at 1059. This is for 1976.

Mon Jun 6 ch 3 Es 1102 MDT- Farm and Market report. KGLO? KITVO? (KGLO has program called "Town and Country" at this time. ---FEA).
 ch 4 Es 1853 MDT- "Billy Graham" Suspects, WCGO, KXJB, WTMJ, KPRY, CHFD or other? KTCA in at 1856.
 ch 4 Es 1936 MDT- Movie with Dean Martin. Suspect KTVY, WCGO, KPRY, WITV, or other. KTCA in at 1903.
 ch 4 Es 2048 MDT- Baseball. Howard Cosell heard so it would be ABC. PTA: NE, SD.
 ch 4 Es 2109 MDT- "ACTION NEWS" KSNB? KSNB seen at 2118.

Tue Jun 7 ch 3 Es 2125 MDT- Wildlife show. XHBC?

Wed Jun 8 ch 3 Es 1853 MDT- PBS, "McNeil-Lehrer Report". Suspect KENW and KLINE. (KLINE negative, KENW has not yet sent schedule. ---FEA).



TV service of the Ontario Educational Communications Authority
 Box 200, Station Q
 Toronto ONT M4T 2T1

TV Ontario

Chatham	ch. 59
Kitchener	ch. 28
London	ch. 18
Ottawa	ch. 24
Toronto	ch. 19
Windsor	ch. 32

TVO also broadcast school programs during school season on CBC French Network stations listed below. Programs are seen from 1030 to 1130 Mon. to Fri. and from 0800 to 0900 on Sat.

CBFST-3 ch. 12, CBFST-4 ch. 12, CBOFT-2 ch. 7, CBFST ch. 7, CBFST-1 ch. 13, CBFST-2 ch. 12, CEFOT ch. 9, CBFST ch. 7, CBFLLT-1 ch. 76, CBFLLT-2 ch. 40, CBFLLT-3 ch. 48, CBEFT ch. 78, CBLFT ch. 25, CBLFT-7 ch. 55 & CBLFT-8.

Georgia Educational TV (list in May CCI)

CBC English TVO school list will be listed next month room permitting.

QSL CORNER

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

TV-QSL

- ON CKPR 2 Thunder Bay, 87 N.Hill St, P7A 5V6, Send letter & kept SASE, signed by Ellen Bohn, Sec. to Dir of Eng. (Glasgow)
- CBOT 4 Ottawa, Box 3220, K1Y 1E4, Send card & letter from Mrs. G. Ethier, Public Relations, CBC in 1 month. (Glasgow)
- SA CKCK 2 Regina, Box 2000, S4P 3E5, Send letter & coverage-map from Alex White, Dir of Tech. Oper. in 13 days. (Walker)
- CO KDAW 5 Pueblo, Box 876, 2226.TV Lane, 81002, Send letter from Kenneth Renfrow, CE in 1 1/2 weeks. (Glasgow)
- MO WGBL 11 Baltimore, 3800 Hooper Ave, 21211, Send letter signed by John P. Frankenfield, Program Dir. (Cottan)
- NC WWAY 3 Wilmington, 615 N. Front St, 28401, Send short letter, but friendly in 6 days from Art Madeley, CE. (Swartz)
- NE KHAS 5 Hastings, 1414 W.4th St, 68901, Send letter from News Anchor Man, Lloyd Thomas with picture postcard of News Sitting, & booklet about Hastings & also send a few bumper-stickers from another local station. (Cottan)
- NY WOR 9 New York, 1440 Broadway, 10018, Send qsl-card for WOR AM/FM with tv written in & no signature. (Cottan)

FM-QSL

- AR KGUS 97.5 Hot Springs, Box 1089, 71901, Send along nice letter, brochure on Hot Springs National Park, station data sheets, including coverage-maps. Letter from C. J. Dickson, VP & Gen. Manager: We have received a letter from Ft. Lauderdale, FL however, you are the first we have heard from the northern section (of the country)." Ken Simon from Ft Lauderdale? (Elving)
- FL WTMJ 102.3 West Palm Beach FM-Translator from Miami 93.1, 2951 S. Bay Shore Dr, Miami, FL 33133. Send back prepared card for W272-- with power of 1 watt sign by Bill Elliott, CE. this is the first & only xltr in Florida. (Simon)
- WYRL 102.3 Melbourne, Box 908, 32901, Send short letter in 5 days from Pat Vatauro, Gen. Manager. (Swartz)
- WTAI 107.1 Melbourne, Box 1560, 32935, Send short letter in 4 days from Tom Hanssen, President. (Swartz)
- WGVL 93.5 Vero Beach, 1500-20th St, 32960. Send letter; very appreciative in 7 days from Chris Hubbard, Manager. (Swartz)
- IL WCBU 89.9 Peoria, 1501 W. Bradley Ave, 61625. CE signature on my report. Frank Thomas, CE in 5 days. (Simon)
- IN WNAO 93.1 Indianapolis, 2835 N. Illinois St, 46208. Friendly memo from Bob Brockway, CE in 10 days. (Simon)
- ND KDSU 91.9 Fargo, North Dakota State University, 58102, Send letter signed by Jim Hetland, CE & also gave tech. details. (Aden)
- SD KQHU 104.1 Vankton, P. O. Box 794, 57078. Send letter signed by Lynn McColley, PD, Congratulated me on discovering their call letters (I heard Super Q for id) also, thanked for on tape, since many DXers send only a letter. (Aden)
- KKHJ 93.9 Rapid City, Pat Cahoon, sales manager sends brief verification letter, & mentioning having been heard once in Louisville by skip (Fleischaker?) (?), plus many brochures about the station & area. (had this station a call-change ? my book shows KKLS, ed.) (Elving)
- TX KTEP 88.5 El Paso, University of Texas at El Paso, 79999. Send letter signed by W. L. Brown, CE. Reported that it was only reception reports received so far this summer. He said they get only 1 or 2 reports each summer, & also that my report is their most distant. (Aden)
- WY KFBC 97.9 Cheyenne, My first qsl from Wyoming was a letter from Ron Kercher, program director, who believes they are vertically polarized & directional to the northeast on FM. Duluth is the greatest distance KFBC-FM been heard. (Elving)

Reporters are Rick Glasgow of Ackerman, MS, Edward R. Cottan of Chesapeake, VA, Bruce F. Elving, of Duluth, MN, Shel Swartz of West Palm Beach & along with Ken Simon, & Frank Adem of Bend, OR & Bob Walker of Westport, KY. WOW!!! is all I can say after the support I got. I must say thanks alot for all your help with this column for I got so much mail that I got enough for a few more columns. I even got new reporters that is great. Just keep up your support, and I will be happy. Next month will be all fm stations & even more. 73's. Tom

ASIAN-AFRICAN FM CHANGES

Mike Dorner, Jr.
1409 Hymelia Av.
Metairie, La. 70003

Data based on a line-by-line, page-by-page comparison of the 1975 and 1976 World Radio-Television Handbooks. This tabulation is the second of two parts and completes the study. For a list of 1975 European FM changes, see WUD, May, 1977, pp. 14-15.

A f r i c a

NEW STATIONS

Angola			
Luanda	104.45	3k	CRGRD-FM
Canary Islands			
Arrecife	90.7		R. Lanzarote
Liberia			
Buchanan	93.6		ELNR-FM
Madeira			
Funchal	----		CSB220
Rhodesia			
Salisbury	96.9		RBC African Svc.
Salisbury	99.6		RBC General Svc.
South Africa			
Gala	97.95	3k	R. Bantw/S. Sotho
Matatiele	106.18	3k	R. Bantu/S. Sotho
Renek	106.70	3k	R. Bantw/S. Sotho
Beitleshem	104.98	3k	R. Bantu/Zulu
Nelspruit	98.35	3k	R. Bantu/Zulu
Okakarara	95.43	3k	R. Herero
Windhoek	87.69	0.1k	R. Damara/Name
Khorixas	99.73	0.3k	R. Damara/Name
Upper Volta			
Ouagadougou	92.0		R-TV Voltaique

DELETED STATIONS

Angola			
Carmona	89.84		CRGRU-FM
Lobito	94.14	0.1k	CRGRS-FM
Luanda	105.4	3k	Emisora Oficial
Luanda	105.9	1k	Voz de Angola
Mozambique			
Biera	90.0	50w	Radio Pax

POWER INCREASE

Angola			
Benguela	92.76	0.1k	CRGRF-FM
Luanda	93.5	1k	La Voz de Angola
Morocco			
Rabat	92.1	3k	RTF Moroccan
Rabat	87.9	3k	RTF Moroccan
Casablanca	96.1	3k	RTF Moroccan
Casablanca	90.0	3k	RTF Moroccan
South Africa			
Walvis Bay	95.17	50w	Radio Ovambo

POWER DECREASE

South Africa			
Windhoek	106.69	0.1k	R. Damara/Name
Windhoek	106.69	0.1k	R. Herero

MHZ CHANGE

South Africa			
Piet Relief	R. Bantu/Zulu	from 104.2	
		to 105.64	3k
Dullstroom	R. Bantu/N. Sotho	from	
		100.23 to 100.05	3kw

A comparison of the 1976 and 1977 World Radio-Television Handbooks is under way.

M i d - E a s t

NEW STATIONS

Iran			
Kermanshah	106.0		RTV Iran
Ahwaz	106.0		RTV Iran
Shiraz	106.0		RTV Iran
Jordan			
Amman	102.9		Radio Jordan
Turkey			
Istanbul	88.2	10k	TRT-3

DELETED STATION

Cyprus			
Famagusta	95.4		BFBS

NAME CHANGE

Cyprus			
Sina Gros	87.6	10k	now R. Bayrak
Sina Gros	97.6	10k	now R. Bayrak

POWER INCREASE

Lebanon			
Beirut	98.3	10k	Radio Lebanon

FREQUENCY CHANGE

Turkey			
Istanbul	99.5 to 99.6	1/2k	Istanbul Tech. University

A s i a

NEW STATIONS

Bangladesh
No mention of forecast 2kw FM stations in Dacca, Chittagong, Rajshahi, Sylhet.

Taiwan (Formosa)

Taipei	103.3	BED 3 (BOC)
Taipei	101.7	Ching Cha Stn.
Taipei	102.9	Ching Cha Stn.
Kaohsiung	103.3	BED 5 (BOC)
Kaohsiung	104.9	Ching Cha Stn.
Yuli	103.3	BED 51 (BOC)
Hong Kong	97.0	50k Radio Hong Kong

Japan

Tokyo	80.0	10k JOAU
Nagoya	80.7	10k JOGU
Osaka	85.1	10k JOBU
Fukuoka	80.7	3k JODU

Malaysia

Kuala Lumpur	92.8	R. Malaysia/Capital City Service
--------------	------	----------------------------------

Philippines

Quezon City	107.9	DZEG-FM
Manila	94.7	3k DWBL-FM
Manila	102.7	DZCH-FM
Makati	93.1	2 1/2k DYTR-FM
Quezon City	105.1	1k DZEM-FM
Baguio City	99.9	DZWT-FM
Makati	92.3	DYNB-FM
Vietnam		

(continued on next page)

If your target station does not leave the air, this may make logging it less difficult because other interfering stations in the region may be off. It is possible to log a relatively low-power AN-7 station (all night, seven days a week) on a frequency loaded with AN-6 stations (all night, six days a week) on Monday mornings, IF the MS conditions happen to be above average on that Monday AM you pick to listen.

(7) Listen for key identification phrases on bursts. Weather reports for a specific area and local advertisements are very good indicators of what it is you are getting. I personally must have the actual call letter ID taped before I will count a new state, which can be frustrating. Back in 1970, I sat on 93.7 through the first two days of the Geminids shower in December trying to pull in either KMOT or WDAY on that frequency in North Dakota with a definite call identification. I had dozens of snatches of "Weather for North Dakota" will be..." and "Shop at XXX in Fargo or Moorhead..." and I finally had to go to 93.3 to log KSJM in Jamestown ND---which took me exactly 10 minutes on the channel. I'd spent nearly ten hours on 93.7 in frustration but it only took ten minutes on 93.3!

73, Bob Cooper, Jr.WTFDA MEMBER SURVEY RESULTS (continued from page 13)

AUGUST 1977

The issue of columnar vs. paragraph form for DX reports was largely decided in the last WTFDA member survey, with those responding overwhelmingly in favor of the columnar format for both TV and FM DX reports. Now that this challenge has been answered, I hope the matter can again be put to rest, though comments are always welcomed by your column editors and in FEEDBACK.

So ends this compilation of WTFDA's 1976 membership survey. I've enjoyed compiling your replies (most of them!), and I hope those of you who returned your questionnaire cards have enjoyed seeing your opinions in print. Although some WTFDAers seem dissatisfied with minor aspects of WTFDA and the VHF-UHF DIGEST, I believe the majority opinion is best expressed by member Bill Grant of MA, who writes: "In general, I've always been pleased with the time and effort put into the club by all of its editors and publishers." All of us appreciate the kind compliments expressed in this report, and hope we will continue to please you; thanks for giving us that opportunity by joining WTFDA!

Next time in FEEDBACK: more on the AC-4990 and Janowiak's POLARIZATION series.

Clarke W. Ingram, Editor-in-Chief, VHF-UHF DIGEST

*Clarke*ASIAN-AFRICAN FM CHANGES (continued from previous page)

AUGUST 1977

<u>Vietnam</u>				<u>A u s t r a l i a & P a c i f i c</u>
Saigon	99.9	Time & Music		
		<u>DELETED STATIONS</u>		<u>NEW STATION</u>
<u>Thailand</u>			Johnston Island	99.5 50w AFRTS
Udon AFB	99.7	AFRTS		
Korat AFB	101.9	AFRTS		
		<u>POWER INCREASES</u>		<u>ABBREVIATION KEY</u>
<u>Taipei</u>			R. = Radio	Svc. = Service
Taipei	100.1 3.15k	AFNT (AFRTS)	RBC = Rhodesian Broadcasting Company	
Taipei	100.9 12.6k	AFNT (AFRTS)	TRT = Turkish Radio and Television	
<u>Japan</u>			BCC = Broadcasting Company of China	
Tokyo	82.5 10k	NHK	AFRTS = Armed Forces Radio/TV Service	
		<u>FREQUENCY CHANGE</u>	AFNT = Armed Forces Network Taiwan	
<u>Thailand</u>			NHK = Japan Broadcasting Company	
Bangkok	90.25 to 94.0	HSA Radio WTTB	(AFRTS and AFNT are USA operations)	

SUMMARY. Africa: South Africa continues to expand its FM networks with new relay transmitters; the new Liberian FM is a private station operated by a mining company for the benefit of its workers. Morocco has increased power of its FM stations and seems to emphasize them more. Meanwhile, four deleted stations in Angola and one in Mozambique represent the turmoil in much of Africa in 1975, with confiscation of private stations in both countries. Asia: Iran seems to be building an FM network, while Turkey is starting an FM-only third service. Four new private commercial FMs in Japan are now listed, and Thai pressure has forced the closing of two USAF bases and their FM stations.



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 10th of month

AUGUST 1977

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 (DXing done at cottage at Fair Haven Cliffs, MD) Regency AR-136D (aircraft, Finco 10-el FM Yagi & Blonder-Tongue FM booster), Regency DR-200 (152-174 MHz, Allied vertical rod). QSLed, GMT used

<u>7-11:</u>	1018, CXDK	156.6/8	Chesapeake Bay (near Fair Haven)
(76)		156.65	(<u>Danmark</u> , sailing vessel, tall ship)
<u>7-18:</u>	1650, NL286T	128.1	ov Kenton, DE (Church of Natural Living;
(76)			Piper Cherokee PA 28, R180, 1-eng, 4-seat)
<u>2-21:</u>	1719, N8401AA	128.7	nr Newark, NJ (American 9; B-707-323CC; 25 w)
<u>3-11:</u>	2202, N7139P	119.0	apx jct Susquehanna R.-PA/MD border (Mr. Werner Schumann; Piper Com. PA24, 1-e, 4-s; 20 w)
	2208, N17MN	119.2	10 mi e Bal. (Chesapeake Amphibious Air. Inc)
<u>12:</u>	2130, N503CC	125.0	nr Kenton, DE (Hugh R. Sharp; Cessna 411, 2e8s)
	2253, CPTOD	134.0	(Air Canada 933, B-747)
<u>13:</u>	1810, N7299	134.0	between Dulles & JFK (Branniff 18; 25 watts)
<u>19:</u>	2006, N920BS	118.75	20 mi w Bal. (Bethlehem Steel Corp.; Grumman Gulf Stream; 2-engine, 21-seat; 25 watts)
	2010, N770PA	118.75	midway JFK-Dulles (Pan American Clipper 67; B-747-100; 25 watts)
<u>26:</u>	2124, N1180Z	134.0	north of Bal. (Laurance S. Rockefeller; Jet Commander 112L, 2-engine, 10-seat)
<u>4-16:</u>	2031, N6013J	119.7	ov Severna Park, MD (Hop Flight, Inc.; Cessna 150 aerobat)

Martin J. Theil, 12 Princeton Dr., Holiday, FL 33589 Bearcat 101

154.43	Tampa, FL (fire, KIA 653)	39.50	Paxton, IL
155.34	Tampa (medic)	39.46	Yorkville, IL
150.905	Tampa (auto club)	35.42	Columbus, OH (mobile phone)
152.36	Tampa (taxi)	35.26	Detroit, MI (mobile phone)
47.54	Wisconsin	35.50	Detroit
30.42	Canada (pager)	35.50	New York, NY (mobile phone)
35.22	Scranton, PA (pager)	35.42	Philadelphia, PA (mobile phone)
33.78	Millburn, NJ		

My loggings. SP-600-JX-10, Allied A-2586 with 2 30' wires at 12' (ne-sw, nw-se runs); 50-MHz with Swan 250/Ameco nuv. preamp. 5-el CushCraft horiz Yagi at 18'; VOR on Heath GR-98 with 6-el FM at 20'; Es unless noted, new underlined, GMT used

<u>6-16:</u>	2204, KOE 257	35.22	Phoenix, AZ (pager, tone)
	2205, KIN 645	35.22	Miami, FL (pager, tone)
<u>19:</u>	2223, KOE 257		
<u>27:</u>	0602, KKI 445	35.58	Houston, TX (pager, tone) tropo
<u>30:</u>	0346, KAA 893	35.22	St. Louis, MO (pager, tone)
<u>7-1:</u>	0027, "ILNK"	109.9	Lincoln, NE (ILS, tone c.w.)
<u>3:</u>	0329, KAA 893		
	2020 KH6IAA	50.1-	Hilo, HI (amateur, ssb) 3Es
	to KH6HI	50.1-	Ewa Beach, HI (amateur, ssb/cw) 3Es
	2315 KH6IJ	50.1-	Honolulu, HI (amateur, cw) 3Es
<u>7:</u>	0612, KAA 893		

French 50.1 beacon into New Brunswick 40 minutes on June 11. July 3 Hawaii to Nova Scotia 6-m. June 26 & Jul 11 more California to Japan 6-m. June 26 6-m Hawaii to Alaska, Jul 3 Alaska to Guam. Several 2-m Es events in June and July among US stations.

73, Pat WA5IYX



Post Office Box 202 - Whiting, Indiana 46394
WORLDWIDE TV-FM DX ASSOCIATION

**TOUGH
TO BEAT!**

Established 1967

SERVING THE
VHF-UHF DX
ENTHUSIAST



DUES: USA and Canada, \$11 (via first class); overseas, \$18 (via air mail).

The VHF-UHF DIGEST is the official publication of the Worldwide TV-FM DX Association. WTFDA is a non-profit organization and a member club in the Association of North American Radio Clubs (ANARC).

Persons contributing their efforts for the Worldwide TV-FM DX Association do so without any monetary compensation. Dues and all other revenue cover printing, postage, and other expenses.

The WTFDA is governed by a five-man board of directors, now composed of Morrie Goldman, Mike Hogan, Clarke Ingram, Pete Oprisko, and John Zondlo. ANARC representatives are Morrie Goldman, Clarke Ingram, and Pete Oprisko.

EDITOR-IN-CHIEF.....Clarke Ingram
 PUBLISHER.....Pete Oprisko
 CIRCULATION.....John Zondlo
 DISTRIBUTION.....Mike Hogan

COMPTROLLER.....Gary Olson
 BOOKKEEPER.....Bruce Elving
 PROCESSING.....Dave Janowiak
 LITERATURE.....Morrie Goldman

S U P P L I E S and D X L I T E R A T U R E WTFDA member rates only.

REPRINT SERVICE.....	Articles from May 1972 to the present are now available. A complete 1976 catalogue can be obtained from WTFDA HQ.	
VUD Back Issues.....	Available: Nov 1973 issue to the present. Sent by first class or special book rate.	50¢ each
BEYOND SHORTWAVE....	An introduction to TV, FM, and V-U radio DX written and edited by prominent DXers.	\$1.00
TV STATION GUIDE....	An accurate listing of North and Central American TV stations, featuring maps for each channel pinpointing their locations.	\$3.00; nonmember price, \$5
THE FM ATLAS AND... STATION DIRECTORY (Newest Edition!)	An accurate and detailed FM listing with maps and many special articles, by Bruce F. Elving, VUD FCC-FM News column editor.	\$3.50 via First Class Mail
UHF TRANSLATOR..... DX GUIDE	A complete listing of US UHF translators; notes call, location, power, and primary. Also: a section on DXing The Translators.	Sold Out (No Longer Available)
Club Rubber Stamp...	Official WTFDA emblem, as at top of this page, but 37 mm in diameter. Order from Weldon Patterson-Box 25-Adolph, MN 55701.	\$3.50
WTFDA Stationery....	Features the official WTFDA emblem as at top of this page printed in blue on bond.	45 sheets \$1.00
DX Log Sheets.....	These sheets punched for a 3-ring binder help to keep DXers' running logs orderly.	Pad of 100 \$2.50
VUD Boxers.....	Attractive cases designed to keep copies of the VHF-UHF DIGEST neat and organized.	\$1.50 each
Station QSL..... Report Forms	For requesting QSLs (verifications) from TV and FM stations. Now offset printed!	45 sheets \$1.00
DX Column..... Report Forms	For reporting to the numerous DX columns printed each month in the VHF-UHF DIGEST.	Free for a SASE

All columns and feature articles to be printed in any VUD issue should be sent to editor Clarke W. Ingram, 5201 Colewood Drive, Pittsburgh PA 15236. All information for VUD columns should be sent to the appropriate editors; all club business (supply orders, etc.) should be sent to HQ in Whiting.

SUPPORT WTFDA BY PARTICIPATING----REPORT TO COLUMNS AND PURCHASE SUPPLIES.

Serving VHF·UHF DX Enthusiasts **W T F D A**