



S.W.O.T. BULLETIN



OFFICIAL NEWSLETTER OF THE SIDEWINDERS ON TWO AMATEUR RADIO CLUB
SSB, CW AND DIGITAL OPERATIONS ON 144MHZ AND UP

BULLETIN # 283

SECRETARY-TREASURER.

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S.W.O.T. GENERAL INFORMATION

- Send renewals and new applications for membership to Howard HallmanWD5DJT. Please make all checks payable to SIDEWINDERS ON TWO. And all I need is your SWOT # for your renewals if you want save your bulletin!!!
(See address above)
- Send your SWOT “members worked” from your log to, SWOT Awards manager, Wade Massey, 1016 Weiss Ave, Princeton, TX., 75407 \$1.00 fee for certificate and your certificate number would be appreciated, also SASE.
- Send all applications for County Awards and County Awards correspondence to the SWOT VUCA Awards Manager, Len Parsons W5AL, 11361 Tascosa Rd. FM 1061., Amarillo, TX. 79124
- E-Mail all articles and reports to the Editors’ Web addresses listed above or you can mail them to KA5DWI, 6516 Simmons Rd, NRH, TX 76180-4243.
- **MERCHANDISE:**
Decals and listings available for \$1.00 each for shipping and handling from the Secretary/Treasurer.
SWOT PATCHES ARE AVAILABLE AT PRICE OF \$4.00 EACH + \$.50 FOR MAILING
Badges are available from “The Sign Man”, Rick Pourciau NV5A, <http://www.thesignman.com/menu.html>

ON THE WORLDWIDE WEB

Visit www.swotvhf.org, the SWOT Homepage

The Yahoo Page is still there at: <http://groups.yahoo.com/group/sidewindersontwo>

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The Chairman's Corner

By John Petersen "KM5ES"

Well summer is just about over and we all won't miss the 100-degree weather. I always enjoy the fall season which is a good time to check antennas and install new ones.

I am looking forward to the September ARRL VHF Contest this year. I hope that all members take the time to get on and at least activate their grid square for a while. I have noticed the activities on 2 Meters has been down quite a bit here in the southern plains. Not many openings to work and we have had a very sparse E's season this year.

Also I hope that everyone is enjoying the new Website at www.swotvhf.org. We are continuing to strive to make it better daily. For members we can set you up with an Email address with our domain name, which would be yourcallsign@swotvhf.org. At the time of this article we are working on getting the real-time chat-room going. Many thanks to Chris Cox N0UK for making this possible once it is operational the URL will be <http://www.swotvhf.org/cgi-bin/members-only/swottalk>.

This will allow all members to participate in activities in the club and we plan to have online meetings on this site. I hope we get the bugs out soon. We are also working on a Bulletin Board similar to Yahoo's but a private board for the membership. We have a lot of plans for the members in the upcoming months so stay tuned and check with the net control's on the clubs activities.

73 'til next Month

John Petersen KM5ES #3331
SWOT Chairman

From the Editor's Desk

By Art Jackson "KA5DWI"

Boy, did the last month fly by! Seems like yesterday that I released the last Bulletin. It has been a very busy month for me.

I had the privilege of visiting and taking a cruise to KL7 (Alaska). The YL did not allow me to operate any Ham equipment. I wasn't supposed to use it on the ship anyway. You should have seen the cell phones. At least most of the time they said "No Service". I got to enjoy some absolutely breathtaking scenery and wildlife in the Inside Passage of Alaska. Sadly, most of the time you couldn't see you hand in front of your face. I saw only one Ham antenna. It was a HF Inverted V mounted on a rickety old Houseboat in Ketchikan.

Prior to and after my northern excursion I have been watching the new SWOT Homepage Website.

In my past work experiences, I have been involved in the development of a Website. I can definitely tell you all that it isn't a perfect science. You have problems with the host, you don't understand and have to learn the coding, the project goes into scope creep and you find yourself changing everything up to make it that perfect site. Of course, the result is that the users are totally confused how it works.

For that reason, I have decided that this issue should be dedicated to the new Website. I will outline the operation and show you all some features. I am very impressed with Email. Routing is highly efficient.

In the past few days, a few discussions have been passed back and forth concerning the new Website and the Yahoo Group Page. I have expressed my opinion on the subject and refer you to the Yahoo Page for my feelings on this subject.

This month, I will forgo the SWOT highlight this time. Sorry a little bit too busy here.

Also this month, I have a recap from Larry W6OMF of the fabulous annual gathering at his QTH, another fine article from Don NL7CO, plus some personal feedback and reports from our members.

Thank you again for all your contributions this month.

Enjoy and 73's
Art Jackson KA5DWI, SWOT #2497

The Sidewinders On Two Radio Club Homepage

By Art Jackson, KA5DWI

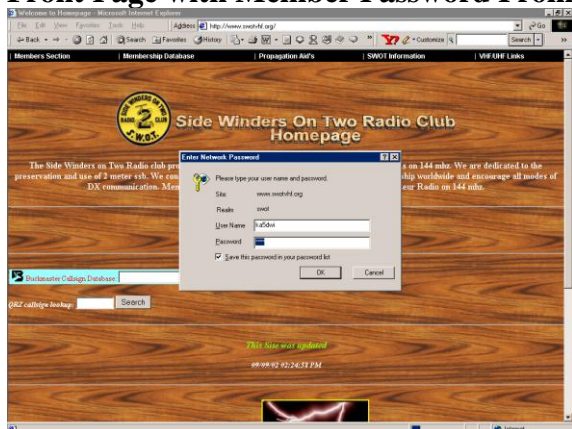
A simple and straightforward Front Page has been set up for the members at: www.swotvhf.org. All sections are "tabbed" and as you mouse-click on each one, the selections are displayed for the section.

The Sections are:

- Member's Section
- Membership Database
- Propagation Aids
- SWOT Information
- VHF/UHF Links
- The Front Page

When you enter the Member's Section, Windows Explorer will prompt you for a Password. This password should be requested from John KM5ES. Once you have received this from him, enter any selection from the Member's Section. Apply your ID and password. Be sure to check the prompt that saves your password to a list on your Home Computer.

Front Page with Member Password Prompt:



The Member's Section contains the following: Trader's Page, Message Board, Newsletter Archives, Amateur Radio Files, Chatroom and Squirrel Webmail

The Trader Page is your opportunity to sell and trade equipment. The Message board is an all-inclusive place to post any and all topics pertaining to Weak Signal operation. There is another set of Security for this section.

Many of the past Newsletters are now available. The bulletins are in PDF (Acrobat Reader 4 or newer) format. They can be viewed or downloaded. The Amateur Files section is a number of popular shareware programs and utilities for every Weak Signal enthusiast.

The Chatroom is temporary will be replaced in the future Still it is a good place for a number of us to gather for general discussion, arranging schedules and propagation information.

Layout of the SWOT Forum Page:



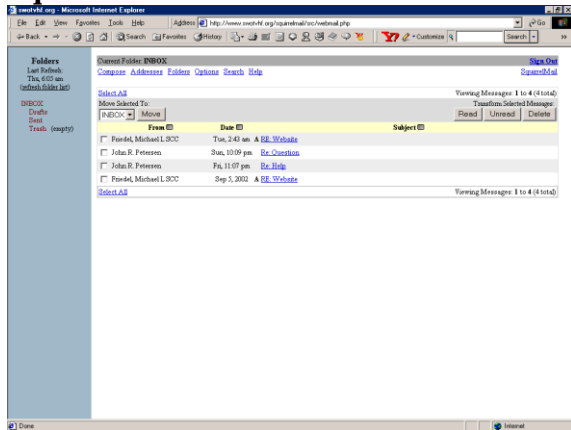
The SWOT Chatroom:



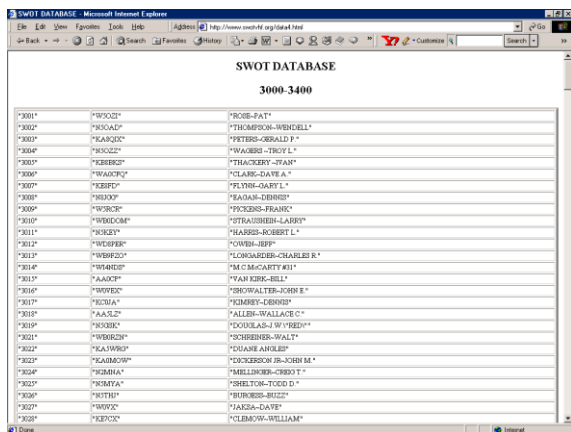
The final Member's Section selection is SWOT Squirrel Mail. This WebMail package is very efficient. You will be impressed with the routing speed compared to AOL and Yahoo. It is easy to use from the menus provided. Of course, Microsoft Outlook and Netscape Communicator can be set up with this Email client.

To get a, yourcall@swotvhf.org Email address contact: John, km5es@swotvhf.org or Your editor at ka5dwi@swotvhf.org .

Squirrel Mail Menus and Inbox:



The next tabbed selection is the SWOT Database. It has been separated into three sections. It is easy to find someone's number by using: Find (Ctrl + "F") The database is available to everyone.



The Propagation Aids tabbed section are a number of popular Internet sites they will give your good warnings to potential openings on 2 Meters. It is also available to all who visit.

The SWOT Information tabbed section contains:

Visitor Information

Membership Form

SWOT Nets

Information and Links to the NORCAL Chapter Listing of all SWOT Officers, Board Members, Administrators and email links.

Last, the VHF/UHF Links tabbed selection is a pointer to other Websites and Organizations specializing in VHF operation

This SWOT Homepage continues to be a work-in-progress. John better not change this up too much before this publishes.

John is always open to suggestions and is always looking to improve the site. He is responsive and very accommodating to many requests.

Come join us and enjoy the features it offers. We ask for all of you to participate.

The Annual Northern California Weak Signal Gathering

By Larry Hogue, W6OMF

Wonderful friends, wonderful hams and just great people joined us in the annual Weak Signal gathering in Northern California.



Numbers can't reflect the group that rallied. They were great!!! Over one hundred and fifty came and enjoyed the morning. With swapping, gripping, and grinning... Long distance people coming from the North were the Redding team of Ron, K7QXA and his wife Evelyn, KF6LGY, from the East, Tim, K7XC of Reno and the South had lots of long distance drivers, KI6FF, David, Westminster, N6RMJ, Pat, Lancaster, K6HLH, Larry of Lake Los Angles. And on and on and on...

What a wonderful time... Many went home with goodies... to name but a few
 DK3 Screwdriver Antenna and 2 DK Minis Donated by W6AAQ....
 WV6F, Skip N6RMJ, Pat
 N6AJR, Tom
 50 ft of 7/8 Hardline... Donated by KJ6KO and two
 7/8 connectors donated by KA6FDI
 K7QXA, Ron
 MJF Wrist Watch Dual time.... Donated My MJF
 and KD6VCD, Bob
 KF6PGT, Allen

Multi Meter Test Leads with Adapters... Donated by Tony WA6QMQ

K6HLH, Larry AC6VJ, Greg
KE6ILX, Jeff

Volt Ohm Meter... Donated by Tony, WA6QMQ

KF6VBJ, Jim WA6CAP, Bill

Batteries, 12 Volts 7.0 Ah... Donated by Skipp, WV6F

KG6HXI, Catherine KD6LTB, Bill

K6QXB, Herb WD6HDY, Richard

KG6HBY, W6ISS, Tim

KR7O, Robert

First Aid Kits... Donated by Bob, W6KOC

KJ6KO, Greg KD6DLB, Larry

ARRL Handbooks.... Donated by the ARRL

WJ6T, Bob W6KBX, Don

WA6ZKY, Gordie

Complete CD of Snow-white and Mag lite...

Donated by Gary, WB6G

KD6VCD, Bob K1LPI, Dave

Atlas, Log books, Radio alarm.... Donated by Sue, K6SUE

WB9NJS, Tim N6JV, Norm

WD6CHL, Vern WA6CAX, Bill

WSWSS 2000 Proceedings... Donated by WSWSS

KM6QJ, Travis

Caller ID... Donated by WA6ZKY, Gordie

W6ONE, Byron

Last by not least...

The winner of the grand prizes was David, KD6VNB of West Sacramento... He went home with a Kenwood TM-255a, and promptly set it up and with 36 watts talked with Pat, in DM14 N6RMJ.... Nothing but good audio and signal report.... Congratulations David....

Congratulations to all the winners and to all that came and made it such a great event...

And for you all, start thinking of the December SWOT and Weak Signal gathering at Bakers Square.

Both Sue and I want to thank all the great people that made this a truly great event... Set up, donations, and just plain coming made this the best... Our hats off to all...73 de K6SUE and W6OMF



A few of the Hams in the above picture are 10 year old, Zack KG6HVY #3356, his dad KM6QJ, Travis #3330, Don WK6Q #3288, Pat N6RMJ #2827, Wayne KF6BCH #3172 and Ruff K6DME #3352



Ahhhh ... A balloon launch!



The W6BO helicopter fly in.

Filling the Book Case

By Donald Ross, NL7CO

A couple of weeks ago, I started going through my ham radio bookshelves trying to come up with an appropriate topic for this month's article when it dawned on me that some people probably don't have a large collection of VHF reference books. As I looked at the titles that I have, I tried to figure out what was the one book that I absolutely had to have.

In my case, that book would have to be The VHF/UHF DX Book from the Radio Society of Great Britain (RSGB). This book, available from the ARRL for \$35.00, is my constant companion on the frequent trips that my business requires. Heavily outlined by yellow marker, I still learn something from it every time I read a chapter. Although sometimes heavy on math and theory, all VHF+ topics are explained clearly and in great detail. Another favorite from the RSGB is the more technically inclined VHF/UHF Handbook, also available from the ARRL for \$35.00. Much more geared to the "why" of VHF theory and practice, it is a splendid follow on to some of the questions that arise while reading the VHF/UHF DX Book.

Those are my favorite books, but what about some of the other VHF-ers? What do they consider essential? To this end, I raised that question on several internet reflectors and this is what I received.

Of the seventeen total responses, there were eight that listed the two books previously mentioned and eight for Beyond Line of Sight, by Emil Pocock, W3EP. This book, available from the ARRL for \$12.00, is a compilation of several years of articles from his QST column, The world Above 50 MHz. Although I don't currently own this book, I will be adding it shortly.

Three people believed that the ARRL Handbook are required reading, although I find its use at VHF+ specifically to be somewhat lacking. Several people also believed that you needed to have the ARRL Antenna Book and any of their microwave project books.

One comment kind of threw me though. It was the belief that you should purchase the proceedings from

most of the major VHF conferences and read through them, particularly if you didn't get the chance to attend the conference itself. While I don't question the wisdom of this (I have many of the conference reports and try to get the new ones every year, I just didn't think of them as books per se. I do stand corrected on this, and will tell you that my copies are constantly being borrowed by others.

Bottom line - there are many books out there to increase your knowledge of VHF topics and to paraphrase one of the current group of TV commercials - "What's on your bookshelf?".

Until next time ...

NL7CO/EM04

Notes From Our Members

These are always appreciated. Keep them coming.

John Geiger NE0P reports on the Perseids:

This was my first Perseids shower since 1993, so cannot comment on how it was compared to recent Perseids. Back in 1993 was running 6 meters only on an indoor dipole. Do think that this one beat the 2002 Quads, and was probably a little below the peak of the 2001 Geminids, but the broad peak of this one made up for it.

Missed the early part of the shower because I got back from vacation at 3:30 AM Monday, and with travel fatigue and jet lag, bed sounded better than MS pings. Did see a nice burn while driving back from the Dallas/Ft. Worth airport.

Here is my 2-Meter log. All contacts made with WSJT unless noted:

Time	MHZ	Call
August 12		
2101	144	K2DRH-EN41 long burns this one
August 13		
0329	144	N0VSB-DM79, new grid
0529	144	NX7U-DM43
753	144	W0DB-EN11, new grid
754	0904	144 NJ7A-DN30, new grid on 2
0929	144	W5UWB-EL17, new grid
1624	144	KA9CFD-EN40, new grid
2221	144	KI0LE-EN36, new grid, 900 miles
August 14		
1720	144	WA4HEI-EN65, new grid, 1000 mi.
August 15		
0055	144	KA9UVY-EM58, new grid
0411	144	KD5HIO-DM65, new grid

Totals were 9 new grids on 2, which puts me at 99 grids since Labor Day 2001. Burns were long and numerous and quick contacts were made on 6 meters. Tried several skeds with California stations on Monday, and got pings from each one with both calls. Probably could have completed if we had ran longer. K7XC noted that this shower seemed to favor QSOs up to 800 miles, and I agree. My 2 QSOs over that distance took a long time and lots of effort to complete. It was a fun shower though.

Thanks for all the stations who were active this shower. Lets get ready for the Leonids Meteor Storm!

See everyone then.

73s John NE0P EM04to

John Butrovich W5UMB DX Reports:

Not much, but any report should help.

25-Aug 2304 1330ut W5LUA EM13 SSB
01-Sep 144.145 1422ut W0IC DM79 WSJT441
07-Sep 144.056 1240ut W3EME FM19 EME-CW
08-Sep 144.111 1350ut EA3DXU EME-JT44
08-Sep 144.111 1410utc S52LM JN65 EME-JT44
Rigs: 144 8877 @1.5kw 1-17e1 M2
222 2x3CX800 @1.5kw 1-17e1 M2
432 TE amp @ 160w 1-35e1 F1FO
1296 TS-2000 @ 10w 1-35e1 M2
2304 IC-706/xvtr 8w 1-76e1 looper

73 - John Butrovich W5UWB EL17ax SWOT #39

Howard Runions KF4ODI #3376 writes about QRP and QSL concerns:

I have been DX'ing since April of '99, got my Tech ticket in '98. I have already worked all Continents, WAS#1106, VUCC#1143 (now about 300 grids) all on 6 Meters.

Since doing all of the above, I have been working QRP on 6 and 2 Meters. I have worked all 50 states QRP, but cannot get QRP confirmed! I have sent QSL's up to 4 times to get the QRP confirmed. "QRP" is plainly stated on the card.

Please, on any band, if you work a QRP station, log it QRP and confirm it as such when the card is received.

I need 4 more states (OK, UT, ID, KY) to get my QRP endorsement on 6 Meters. I have worked

many stations on 2 Meters QRP. It is impossible to get a 2 Meter QRP confirmed.

Thanks, Howard

Rich Kaplan WB2CUT writes in from New Jersey:

Excepts

2 Meters has not been very good. There has not been much Tropo. There was an E Skip opening, but all I heard was the old standbys, N0LL and AE0G. One bright spot was hearing FN04 for the first time and working a new SWOT member, WA4ATJ.

K3QII was most kind going mobile in Maryland and providing Caroline and Durchester counties. This completed the 7th state working all counties. I now have 554 counties confirmed.

On the World Wide Web

A few sites Weak Signal operators may be interested in. Send in your favorite sites, they will be listed here. Propagation sites are highlighted this month.

Today's Space Weather

All the important Flux indices.

<http://www.sec.noaa.gov/today.html>

Aurora Sentry

The best aurora propagation based site in cyberspace.

<http://aurora.n1bug.net/>

Propagation - QSL Net

Although it is centered around HF, the best recap site.

<http://dx.qsl.net/propagation/>

NOAA's Space Environment Center Super Site

This is the data everyone else's sites use.

<http://www.sec.noaa.gov/Data/>

Millstone Hill Digisonde

Once you learn how to read it, you can identify many VHF F2 and Sporadic E openings.

<http://digisonde.haystack.edu/scripts/latest.exe?>

DX Reports August 16-September 15

By Art Jackson KA5DWI

Each month we will attempt to let you all know what has been going on 2 Meters and give you an idea what you can expect in the next month. Please Mail or email your DX reports to me and we will get them in the newsletter.

DX Reports

All dates are based on UTC.

Aurora:

08/18 Begin 2240UT Upper Midwest
09/04 Begin 0400UT NE US & Br. Columbia
09/07 Major Opening
Begin 2200UT Eastern Half, Midwest and NE US.

TN to NH, AR to IL, CO to IL, AL to IL
MN to CT, NY to AR, NE to MN

09/10 Begin 1200UT. Canada VE3, VE4, MN

E Propagation:

No reports. E Season is over.

Tropo:

Great Lakes was the place to be in the past month.

08/17 Enhancement Gulf States
08/18 Same
08/26 OK, TX & LA
08/27 Eastern Great Lakes
08/29,30 &31 Central Great Lakes
09/04 OH to W.MO
09/05 Big Opening – Great Lakes and NE US
CT, NY, WV to MI & IL, IA to MA,MS, AL to OK
09/08 NY, MD to MI, NJ to OH
MA, NJ to GA
09/10 Mississippi Valley
09/14 Good Enhancement Midwest

Sources: DX World 144 Propagation Logger and SWOT Group Page

What to expect

September 16-October 15:

Meteors:

This period might be called the lull before the storms. Good time for antenna work if you're a Ping Jockey. No major showers occur during this period. Plus as we reach mid October, only a moderate one (Orionids) begins. Enough minor ones are around to get everyone on WSJT some fun.

Aurora:

The solar cycle was continues to surprise a number of us. Although it appears to be declining, individual large groups with an associated coronal hole

continue to develop. This time of the year a solar flare, with a CME will also activate the equatorial zone. The result is a good Trans-Equatorial propagation. In the US usually only sees it on 6 Meters. The further south you are (Caribbean) the possibilities are there for 2 Meters. Be sure to monitor *Spaceweather.Com* for possible events.

Tropo:

In September, we see a change in how Tropo develops. The Bermuda High strongly influences the Eastern Half of the US. As fronts begin to push their way south, the Bermuda high system will at times act as a block. The cool-core weather system changes to a warm one as inversions develop. Very strong openings can occur along the westerly side of the surface high-pressure system. This is one of the best times of the year for Tropo.

E-Layer Propagation:

Put the 2002 "E" season into the round file. It was not a good year here in the U.S. Maybe, the winter one later will give us a surprise. We deserve it. Nothing is probable till late November.

Moon:

Not many bad days and there are a good string of good ones.

Good days: 10/01, 10/05-07

Best days: 10/02-04

Bad days: 10/11

Based on low sky noise and path loss readings (DEGR) less than 3dB. Bad days are those with a 10db plus reading.

Lunar, Solar and Astronomical Events

Lunar: Apogee – 09/22

Perigee – 10/06

New Moon – 10/06, Full Moon – 09/21

Solar: Overhead 99/16: - 2.6°N, 10/15: - 9.1°S

Autumnal Equinox 9/23 0500 UTC

USAF Predicted Solar Flux Average:

09/16-10/15: 191 (Decreasing by 4)

Still remains high!

Meteors:

All Showers: 09/16-09/30, 14 Active, 4 Peak

10/01-10/15, 21 Active, 7 Peak

Major showers: None

More meteor info at:

<http://comets.amsmeteors.org/meteors/calendar.html>

Event & Contest Calender 2002

September	21	All Arkansas Hamfest N. Little Rock AR
September	21-22	ARRL 10GHz Cumulative Ct
October	11-13	WSWSS 8 th Annual Conference, Cerritos CA
October	19	CLARC Hamfest Pineville LA
October	25-26	Texoma Hamarama Association
October	24-27	Microwave Update & Eastern VHF/UHF Conference – Stow MA
October	26-27	ARRL EME Contest
November	23-24	ARRL EME Contest

NEW SWOT MEMBERS

New members since reported in January 2002.

Thank you all for joining SWOT.

3388	K5ZSJ	ROSS POUNDERS	TX	EM13
3389	K5UNY	ALEX KAPLINSKY	TX	EM13
3390	NE0P	JOHN GEIGER	OK	EM04
3391	KE6FI	TOM CARNEY	CA	CM97
3392	KE6JNT	MARV LEMBURG	CA	CM99
3393	AB6RY	DARET G. BARCLAY	CA	CM88
3394	KD6VCD	ROBERT J. HILL	CA	CM87
3401	KD5NBW	STAN HARMON	TX	EM12
3402	WK5R	RUSTY MOTT	TX	EM12
3403	KD5RFC	JOSEPH EVANS	TX	EM12
3404	W2OO	MICHAEL KIRCHOFF	NJ	FN20
3405	W5JLC	JACK L. CUNNINGHAM	TX	DM81
3406	KA0IQT	JAMES R. JOHNS	TX	EM13

SWOT NET REPORTS

Here are the net reports for August and September. The first figure listed for each date is the number of check-ins and the second is the number of grids.

Northern California (Sunday):

Month of August

08/04/02...61 08/11/02...66
08/18/02...63 08/25/02...74
15 grids / 3 States

Central Louisiana (Tuesday)

08/13/02...5/5 08/20/02...4/4
08/27/02...No Net 09/03/02...7/6

Northern Missouri (Tuesday)

08/13/02...39/17 08/20/02...30/15
08/27/02...22/10 09/03/02...17/10

North Texas (Wednesday)

08/14/02...37/15 08/21/02...32/15
08/28/02...No Net 09/04/02...38/16
09/11/02...30/14

SW Oklahoma (Thursday)

08/15/02...6/2 08/22/02...5/4
08/29/02...4/1 09/05/02...No Net
09/12/02...No Net

Eastern Oklahoma (Monday)

08/12/02...33/12 08/19/02...28/11
08/26/02...36/10 09/02/02...24/8
09/09/02...36/10

East Texas (Saturday)

08/17/02...19/8 08/24/02...21/7
08/31/02...10/4 09/07/02...10/5
09/14/02...18/8

SWOT NET ANNOUNCEMENTS

The Saturday Night Hoot Owl / Eastern Oklahoma Net has been discontinued.

SIDEWINDERS ON TWO” ENROLLMENT OR RENEWAL FORM

NOTE: Though your membership and number are good for life you must renew annually to receive the newsletter and stay on the active list..

Enclosed find check/MO. to: New member---\$12.00_____ Renewal----\$12.00_____

Howard Hallman WD5DJT, Sec.Treas.

3230 Springfield Lancaster, TX 75134-1214

New Member. I have worked the following members:

Call: _____ SWOT No. _____ Call: _____ SWOT No. _____

Renewing: My SWOT No. is _____

Name: _____ Call _____ Grid Square _____

Street address _____

City _____ State _____ Zip Code _____

Telephone Nos. _____ E-mail _____

SWOT NETS

Day	Local Time	Area	Net	Frequency	Net Control Station
SUN	8:30A	TUCSON AZ	ARIZONA	144.250	N7SQN AL
SUN	8:00P	VACAVILLE CA	NORTHERN CALIFORNIA	144.250	W6OMF LARRY
SUN	9:30P	HOLLAND MI	MI SWAM	144.155	K8NFT
MON	7:30P	ALBUQUERQUE	NEW MEXICO	144.200	N5XZM BOBBY
MON	8:00P	WOODLAND PK	COLORADO	144.220	W2CRS WBODOM
MON	9:00P	OKLAHOMA	OKLAHOMA	144.250	WD5GVP ED
MON	8:00P	SANDUSKY	E. MICHIGAN	144.250	W8IDT BART
TUE	8:00P	CA.NO CTYS	NORCAL	144.250	KF6BXH BILL
TUE	8:00P	EM31 LA.	CENTRAL LOUISIANA	144.250	K5MQ DAVE
TUE	9:00P	N. CENTRAL MO.	N. CENTRAL MO.	144.250	N0PB PHIL KB0PE DAVE
WED	8:00P	IA-MO-IL	TRI STATE	144.250	WZ9D N9CXO
WED	9:00P	NO TEXAS	NORTH TEXAS	144.250	W5FKN BOB
THU	8:00P	CA SO CTYS	NORCAL	144.250	KC6CHJ PAUL
THU	7:30P	LAWTON OK	SOUTHWEST OKLAHOMA	144.250	WH6LR JIM
THU	9:00P	TENNESSE	UPPER CUMBERLAND	144.225	N2BR BOBBY
SAT	7:00A	EAST TEXAS	PINEYWOODS	144.250	K5LOW DON