



SWOT BULLETIN

THE OFFICIAL NEWSLETTER OF THE
SIDEWINDERS-ON-TWO RADIO CLUB

PROMOTING SSB, CW & DIGITAL OPERATIONS ON 144MHz AND UP

VISIT US ON THE WORLD WIDE WEB AT :

www.swotvhf.org

<http://groups.yahoo.com/group/sidewindersontwo>

BULLETIN # 298

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S.W.O.T. GENERAL INFORMATION

- Send renewals and new applications for membership to Howard Hallman WD5DJT (See address above). Please make all checks payable to SIDEWINDERS ON TWO. Include your SWOT # for your renewals.
- 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.
- E-Mail all articles and reports to the Editors' Web addresses listed above or you can mail them to Art Jackson KA5DWI, 6516 Simmons Rd., North Richland Hills, Texas 76180-4243.
- **MERCHANDISE:**
Decals and listings available for \$1.00 each for shipping and handling from the Secretary/Treasurer.
SWOT Patches are available at a price of \$4.00 Each + \$.50 for mailing
Badges are available from "The Sign Man", Rick Pourciau NV5A, <http://www.thesignman.com/menu.html>

In this issue:

- The Chairman's Corner Page 2
- NORCAL SWOT Meeting – Sacramento CA Page 3
- 2003 SWOT Financial and Membership Status Page 4
- WD5FDL Antenna Project Page 4
- Rules for the WSJT Random QSO Award Page 5
- Internet Links Page 5
- Late DX Reports Page 5
- Reports November 23-January 6 Page 6
- What to Expect January 1- February 29 Page 7
- Lunar, Solar and Astronomical Page 7
- Event and Contest Calendar Page 7
- SWOT Announcements and News Page 8
- SWOT Net Reports Page 8
- Membership Application and Renewal Page 8
- SWOT and Selected 2-Meter Nets Page 9

The Chairman's Corner

By Art Jackson, KA5DWI

A good year is over. A little effort went a long way.

I hope you all had a great Holiday and wish you all a prosperous 2004. Sadly, all good things must come to an end.

I don't know about you all, but 2003 was a very good year for me here on the VHF/UHF bands.

I started 2003 at least on the right foot. Around Thanksgiving of 2002, I put up a new (but short) tower here in my suburban abode. I didn't want to bring too much attention from my neighbors. Still, it did. Luckily I set him straight after I told him I outlived the last complainer (he died from cirrhosis of his liver).

I kept things simple, with nothing too elaborate. I stacked, from top to bottom at 37 feet, a 50-3 Cushcraft for 6 Meters, 424B Cushcraft for 432 MHz, a revived KLM16LBX for 2 Meters and a 3 Element yagi for 10 Meters. I used RG8X sized low-loss feedlines for 6 and 10 Meters, and low-loss RG8 sized ones for 2 Meters and 432 MHz. I run 170 watts on 144MHz, 150 (usually 50-75) watts on 50MHz and 90 on 432MHz.

I have always appreciated the efforts of all those who have put up the big stations. Many of us cannot and must make do with what we can put up. It has never stopped me from having a good time on VHF/UHF. I am a believer that as long as you have used common sense, good antennas (yagis only) with adequate gain and adequate feedline for the lengths required, most of what you will work will be dependant on propagation and being at the right place at the right time. Additional power and gain from the feedlines and multiple stacked arrays might make you the loudest signal on the band, but it is not going to keep you from getting awards for your practical efforts. I was not disappointed with mine.

This was one of my better activity years. It appears that this was one of my best years since 1987. I participated moderately one evening of the June Contest and very lightly in the others. I was lucky enough to have experienced 2 very good Tropo and 2 rare Aurora openings. Sporadic Es were okay, but have been better in other years. So, what did this casual Weak-Signal enthusiast do? The end result was as follows:

<u>Band</u>	<u>QSOs</u>	<u>States</u>	<u>Grids</u>	<u>DXCC</u>
50	298	42	170	15
144	152	23	58	2
432	10	5	7	1

Okay ... I need to work on 432MHz !!!

I was very pleased with my 2 Meter efforts. I picked up 2 new states and 8 new grids. The special event was making the VHF/UHF DX Records List. I along with SWOT members Bob Landrum W5FKN, Al Ward W5LUA and Lee Kemp N5TIF broke a 144MHz North American Tropo "Over Land" DX record that had stood for 35 years. I figure that after I have left this good Earth that my call has a real good chance of still being on that Honor Roll.

I also picked up 24 new grids, one new state (one to go to WAS) and 2 new DXCC entities on 6 Meters. I at least got one new state and one new grid on 432MHz.

The new setup did me well. It even took damage from a F0 tornado that skipped over the neighborhood and the poor rotator recently seized up. I am still struggling on what I will do to fix that soon with the schedule I have.

So 2003 was a banner year. I sure hope 2004 can be as fun and exciting. Please share with us how your 2003 went and what you plan to do in 2004.

SWOT Business for 2003 and moving into 2004.

Back in April I assumed the role as Chairman of SWOT. I figured it would be an uphill battle to get this Club moving forward. Our past Chairman as well as our Board had at least got things rolling again. There was no doubt that this club was about to be past history 4 years ago. I have tried as hard as I could as the Bulletin Editor to at least have this Newsletter to be informative and fun to read. I express and show my enjoyment of VHF by putting a good effort into this.

In April, I became your Chairman. I preferred not to be, but really no one else wanted to accept the job, so I took it graciously. We also changed up half of the Board. It appeared to me that we would pursue on in a positive manner. Sometimes, I am not really sure that we have done so. Due to our structure, it is not very easy to get things accomplished.

My Concerns for 2004:

One ...

One thing for sure, there is no doubt that we are a quiet, reserved and downright apathetic group at times. Our NORCAL SWOT Chapter is the exception. Our growth will depend on local efforts, not by us at Headquarters. Setting up of area and local chapters is going to be an important part of SWOT's future growth. Without it, it will be extremely slow.

Two ...

Does anyone really care how the club is run or how it is doing? It is kind of strange that no one seems to ask what our paid membership status is or what our budget status is. For this size group, I would think I would hear more.

Three ...

We cannot seem to get new Nets going too well. Also, new non-SWOT Nets are not being advertised to us. It does not need to be a SWOT Net to be listed in this Bulletin. I believe in informing everyone about what is going on to keep up the interest in this band. It does not have to be directly SWOT related when it comes to Nets and Activity Nights.

Four ...

I still continue to be concerned with the total lack of DX reports at times. Yes, 2 Meter SSB is mostly social activity. It is the chasing of DX that draws new people in. New participants need to know what is happening to maintain their interest. If DX is not their interest, then we need to provide them activities to get them into this community. We also need to give practical station and operation setups that will keep them here. We need to share our experiences.

Five ...

Is the SWOT Homepage (www.swotvhf.org) really worth our efforts? I would think it would be, but I am not getting any feedback whatsoever.

So much for my 2004 Pulpit speech.....

Still, there are many good things about 2 Meter Sideband to look forward to each year. I hope we can continue to promote it and keep interest in it. After a year on this job, we will look it over and make adjustments.

Thanks to Larry, W6OMF and Gene WD5FDL for your contribution to the bulletin this month. Lots of other small tidbits and announcements this month. A last reminder, the bulletin is now Bi-Monthly until May.

73s Art Jackson
KA5DWI SWOT#2497

NORCAL SWOT Meeting West **Sacramento California**

From Larry Hogue W6OMF

Forty-Eight (48) Weak Signal enthusiastic Amateurs gathered at Bakers Square to see who had changed, gain weight, and brought any goodies to sell... It was a great

time. Several came from afar and several brought their significant others to share in the day.

This is our dedicated SWOT meeting and it is a time to give back to the members. The NORCAL group runs in the mid sixths and we try and have some type of drawing for any excess monies in the pot. This year with a couple of donations we had \$300 to draw for... Membership dues, WA6CAX (#3400) donation, WB6UPV (#371), and myself (#155) and Sue (#162).

Winners of the SWOT only drawing were:

- HRO #150 Certificate K6DME, #3352, Ruff Guinn
- HRO \$100 Certificate W6QNE, #3327, Byron Cannon
- M2 \$50 Certificate KG7LLF, #3396, Janet Dunlop

Winners of the Donations Drawing were:

- Pair of Kenwood TH-234A Hand held with all the accessories K6HEW, 3286, Bob Hewitt
- Mirage MP1 Watt Meter. Won by K7NOM, #3307 Bill Janssen, who shared it back to the pile and then won by WA6KKK, #3329, Glenn Tomlin.

Winners of the Door Prizes were:

- M2 Two Meter Loop. W6KBX, Don donated by W6OMF & K6SUE
- Swan Watt Meter. KG6LLF, #3396, Janet Dunlop donated by W6OMF & K6SUE
- CQ 2004 Calendar. KC6SEH, #3228, John Collins donated by KE6PWH
- Bottle of Wild Horse Pinot Noir Wine. W6IZU, #3290, Ken Decker donated by W6OMF & K6SUE

Sue and I both want to thank all for a great 2003 year. We had some wonderful gatherings and will look forward to doing it again this year, 2004. Watch and listen to your local nets and we'll get the message out ASAP.





2003 Financial and Membership Status Sidewinders on Two RC

From Howard Hallman WD5DJT
Secretary/Treasurer

As of 12/31/2003 the account balance for the Sidewinders on Two Radio Club is \$832.01.

The paid membership is approximately 175 and will be restated next month.

Chairman Note:

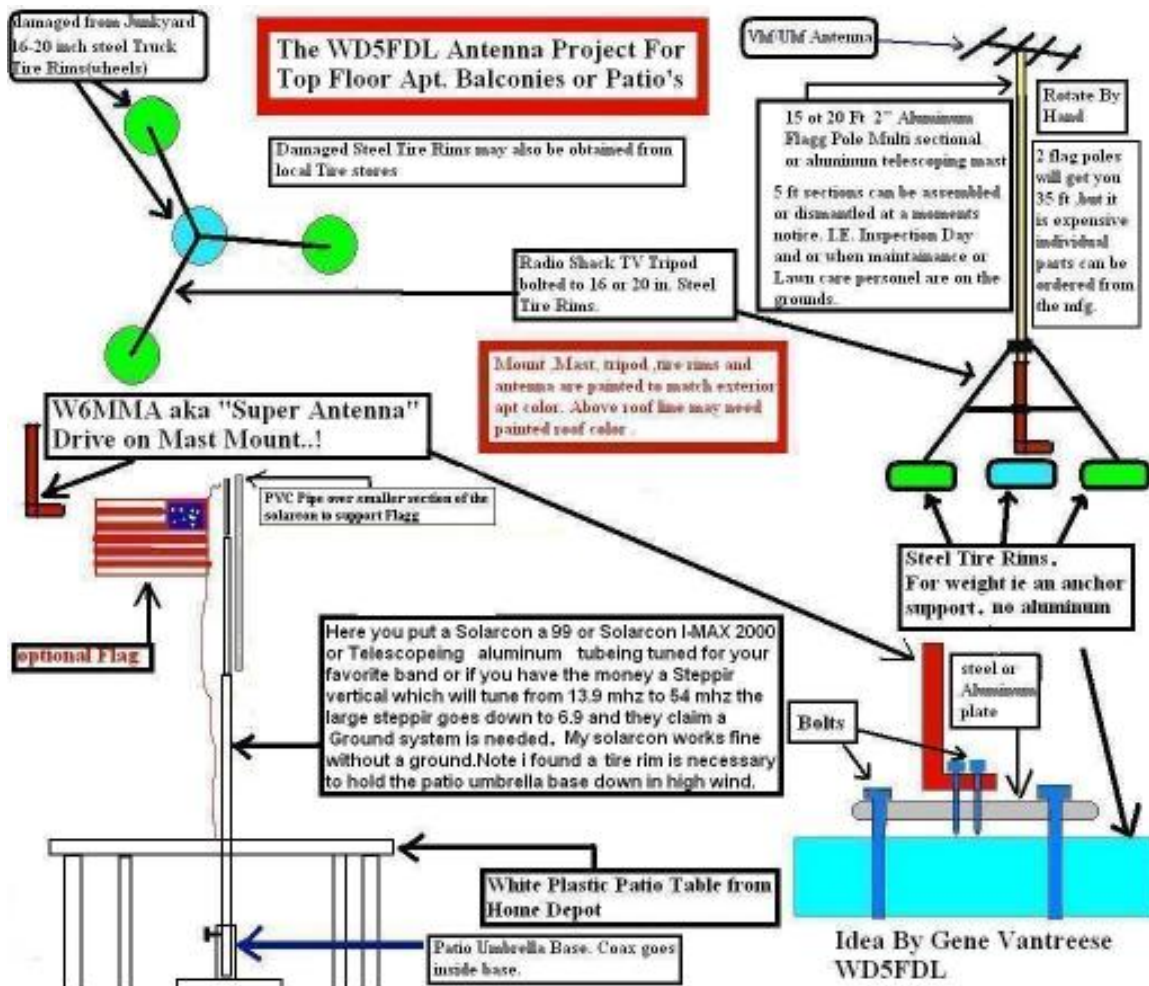
The major expense for SWOT is the production of and the mailing of the Bulletin.

For now 73 and have a great year.
DE Larry W6OMF

WD5FDL Antenna Project

From Gene Vantrees WD5FDL

Who says that you can't operate 2 Meter SSB from an Apartment? Gene does all the time.



Note modifications to mount are needed, a cheaper way would be no center steel tire rim and mount

Rules for the WSJT Random QSO Award

**From Terry, WA3LTB
WSJTGroup Awards Manager**

1. The Random QSO Award (RQA) is awarded for contact with 15 Initial Meteor Scatter stations on two and six meters.
 - The RQA certificate and endorsements are available to all amateurs.
2. Only Initial Random contacts January 1, 2004 or later are creditable for (RQA) purposes.
 - Initial Random contacts are those completed using two and six meters during
 - (1) [Saturday Random Hours](#)
 - (2) [WSJT Fall / Winter Sprints](#)
 - (3) Announced WSJTGROUP Activity Periods.
 - Initial Random contacts must meet the following minimum requirements (1)Both Calls (2) Reports (3) Rogers using the recommended Random Hour formats. (see the Random Hour Manual)

Initial Contact is as follows:

A unique callsign on each band OR the same callsign that travels to a different 4 digit grid square.

Random Contacts during Activity Periods are as follows: Random QSOs must not be pre-arranged and for the purpose of the award a random qso is one started during Random Hour or another WSJTGROUP activity periods by calling CQ, answering a CQ or "tailending".

3. Operating Modes: Creditable contacts should use (1) Propagation mode Meteor Scatter (2) WSJT Modes FSK441 or JT6M
 4. Endorsements in the increments of 15 will be posted on the WSJTGROUP Webpage.
 - There are no specialty endorsements.
 5. Application Procedure (please follow carefully)
 - submit log with Calls, Dates, Frequency and Report received to WA3LTB (Terry) at wa3ltb@juno.com
 6. Fees : Certificate cost is \$3 (This covers printing and postage expenses)
 - no fee for endorsements
 7. Decisions of the WSJTGROUP Awards Manager will be final.
 8. Operating Ethics: Fair play and good sportsmanship in operating are required.
 - adherence to the Random Hour Manual
 - work with near-by stations to reduce interference issues which arise
- Home of the WSJTGROUP:
<http://www.qsl.net/wa5ufh/WSJTGROUP/WSJTGROUP.htm>

Internet Links

A few links that are of interest to the Weak Signal enthusiast:

2004 Meteor Calendar

<http://www.imo.net/calendar/cal04.html#January>

WSJT Downloads (Now at version 4.3.4)

<http://pulsar.princeton.edu/~joe/K1JT>

<http://pulsar.princeton.edu/~joe/K1JT/UPD434.EXE>

VHF Contest Software (Many Flavors)

<http://www.vhftest.com/>

<http://www.n3fjp.com/>

<http://pages.cthome.net/n1mm/>

<http://www.qsl.net/w3km/>

<http://www.k1ea.com/>

Pierre VE2PIJ wants you all to update your VHF information.

Great links site.

<http://pages.infinit.net/ve2pij>

Late DX Reports

From Art Jackson KA5DWI

Sorry everyone. I got in such a rush to finish the last Bulletin that I forgot to print these reports from the great Aurora opening of October 29-30.

From John, AE5B:

Four new grids on 2 meters via aurora
The KH6 guys on 6 meters were like locals.

New 2 Meter grids

10/29

EM09 N0LL

FM06 K4QI

10/30

DM78 W0AH

DN91 W0BJ

New 6 Meter grids

10/30

BL01 KH6BBM

BL02 AH6RE

DM62 K5AM

EM06 N7HRT

EM43 K5FA

From John NE0P:

It was nice just to hear some Aurora this far south. Only the second time I have heard it since moving here in August 2001. Never heard more than 10 stations or so total on 2 Meters, and heard no aurora on 6 at all. Here are the stations I worked on 2 meter AU:

2148 K0ETC EM27

2151 K5JL EM15

2223 W0AV EM29 Still need a card from this grid
2240 N0LL EM09 new grid on 2!
2255 W5AL DM95
2258 W0ETT DM79

Also heard K5CM (EM25), W0EKZ (EM17), W0VD (EM27), and K4QI (FM06). None of those were new grids, so didn't try too hard to work them, although I did call K4QI a few times. It would have been nice to have a long distance QSO on AU. N0LL was loud here, and we tried on 432 as well. Heard him there, but no QSO.

Around 2300Z went to 6 to catch the action there. Worked NH7RO in BK29 at 2340Z. Heard KH6/K9FD in BL11 but just couldn't complete a QSO. Started hearing Au E-Skip, but had to go to work.

Later last night 6 meters opened really nice to Central America. Worked:

0526 TI2NA
0532 TI2CDA
0535 TI5KD
0549 HP2CWB
0557 K6KMN DM04
0604 K6LMN DM04
0607 TI2ALF

None of those were new grids, but as the evening wore on the Central America Stations got really loud. Decided to try and call TI2CDA on the FT817 to see if I could work him again QRP. Worked him no problem and then realized that I had the power supply off and I was working him on the internal batteries at 2.5 watts!!!!

Lets hope for some more AU and Es action today.

Day Two.....

Wow! Who would have thought that Wednesdays AU was just a warm up for the big event Thursday! The Aurora this far south was definitely better on Thursday. Left work early when I saw AU reports on the reflector, and got home to find 2 Meters going strongly. K4QI was booming in here from FM06, at times hitting S7. W0AH was hitting S9 at times from DM78.

Stations worked on 2 meters were:

K4QI FM06 1083 miles
W4MYA FM07 1153 miles, best DX
K9MRI EN70
K5QE EM31-furthest south
W0BJ DN91 new grid
N5FAC EM35
W0AH DM78

I heard N5BLZ from EL29 on Aurora, but didn't get him. Also heard EM00 on AU, so this got pretty far south.

Then went to 6 Meters for some Au E and F2. The KH6's were really coming in last night-reaching S9 at times.

Worked KH6/K9FD from BL11, AH6RE from BL02, and KH6/WA2HFI from BK29. The first 2 were new grids on 6. Worked N0LL from EM09, and then picked up 2 additional new grids on 6 from W5HUQ EM35 and WA5IYX from EL09.

It was also exciting to hear Mike, NH6CJ, and Art KA5DWI work W5HUQ for state #49 for both of them. They now join myself, NL7CO, and WB5AFY as needing only RI for 6 meter WAS.

73s John NE0P

Day 2 Report from Yours Truly:

Unfortunately, I missed most of today's Aurora. I had some activities I could not postpone.

Today's aurora was I think much better. I heard many more stations to my east and south such as K5QE and W5UWB. Many that I heard yesterday were stronger today. Many more 59A signals this time.

It started right at 1930 UTC when I hear K5CM with a combined CW tone and buzz. From here in EM12, the hams up in Muskogee are the best gauge for determining Aurora.

I managed to get a new grid, DM78 W0AH from Colorado. Once again it opened to Hawaii on 6 Meters just as 2 Meter aurora was dying out. Picked up a few KH6's and a new state on 6 Meters. Not Hawaii (had it since 1989).... It was Arkansas, believe it or not. Worked some tremendous backscatter on 6 Meters. I believe there was some good FAI in there as well. I kind of think we had a little bit of every kind of propagation possible there today.

Art

DX Reports November 23-January 3

By Art Jackson KA5DWI

Aurora:

Finally, much more quiet.

12/21: IA to MI

Meteors:

12/10-12/14: Geminids produce consistent reports

12/24 and 12/27: Good reports on the propagation loggers.

01/03: Many good reports during the Quadrantids.

Sporadic E/ FAI:

The largest December opening in many years!!

12/30: 0155 – 0315 UTC Texas/Oklahoma to N. Carolina, S.Carolina, Georgia, Florida and Tennessee. Combination of Es and FAI.

W5UMB John, EL17 listed the following:

AA4H EM96, WB5APD & KE8FD EM84, W4VHH EM95, KF4KPT EM94, WB4GTB EM73, WB4JGG EM75, KE4TWI/M EM66, AF4OD EM72, AF4HX EM85, & K4QI FM06.

KE8FD Gary, EM84 listed the following:

WA5IYX EL09, K5DYY EL07 & W5BBJ EL19

W3ZR EL96 listed:

K5SW EM25, WD5FDL EM12 & W5LUA EM13

WA5IYX Pat, EL09 listed:

W4VHH EM95 & WO4DX EM74.

Tropo:

A few small openings.

11/24: Northern Atlantic Coast

11/26: Southern Atlantic Coast

12/09: Short!! Central Texas to S. Illinois

12/27: Great Lake states

What to expect

January 1 – February 29:

Smart if you held off maintenance plans.

Now it is time that you should work on the tower.

Meteors:

The best daytime shower of the year, the Quadrantids is ending. Did you see the film of the fireball in Spain? It will pretty much slow down until April. This last half of February one of the slowest periods. So, this turns out to be a good time with WSJT.

Aurora:

Signs of life are reappearing.

After the great openings in late October, the sunspot groups that were the source of the Aurora died out in November and December. Some new sizeable groups have formed. Be alert to sudden events.

Predictions for possible disturbed conditions:

1/06-08, 1/28, 1/31-2/07

Tropo:

Now that we are in the winter, opportunities are far and few between. Again, if you here from your favorite weatherman say, “Indian Summer”, that should alert you that something could develop.

Stalling clear weather systems that warm up over a few days will set off some openings. The focus will be the Gulf of Mexico and the states that border it.

E-Layer Propagation:

The Winter Es season has peaked and surprised a few of us with a 2 Meter opening. Look for short duration solar disturbances to set things off again prior to Auroral events. If it happens once, it can happen again.

Moon:

Good days: 1/08-15, 1/22-26, 2/05-11, 2/28-22

Bad days: 1/19, 2/16

Good days are based on low sky noise and path loss readings (DEGR) less than 3dB, *Best* days at/or below 1dB. *Bad* days are those with a 10db plus reading.

Lunar, Solar and Astronomical Events

Lunar: Perigee – 1/19 & 2/15 Apogee – 1/03, 1/31, 2/27

Full Moon – 1/07 & 2/06

New Moon – 1/21, 2/20

Highest Declination (Elevation): 1/06, 2/02

Lowest Declination (Elevation): 1/19, 2/16

Solar: Overhead:

1/15: - 21.2°S, 2/15: - 12.8°S

Winter Es threshold ends 2/08

USAF Predicted Solar Flux Average:

1/6-28: 120

1/28-2/19: 109

(Steady in January, but dropping in February)

Meteors:

1/1-1/15: 19 Showers active, 8 Peak

1/16-1/31: 15 Showers active, 10 Peak

2/1-2/14: 21 Showers active, 12 Peak

2/15-2/29: 13 Showers active, 3 Peak

Meteor info at:

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

Event & Contest Calender 2003

<u>Month</u>	<u>Day</u>	<u>Event</u>
January	24-26	ARRL January Sweepstakes http://www.arrl.org/contests/rules/2004/jan-vhf-ss.html
January	28	Six Meter WSJT Sprint 01:00 - 05:00 UTC
February	25	Two Meter WSJT Sprint 01:00 - 05:00 UTC
March	31	Six Meter WSJT Sprint 01:00 - 05:00 UTC http://www.qsl.net/wa5ufh/
April	23-24	8th Annual Southeastern VHF Society Conference Atlanta, GA http://www.svhfs.org/
June	12-14	ARRL June VHF QSO Party

Send me dates that are important to you all.

SWOT Announcements and News

From James Kennedy, W5SSG

Hello Sidewinders on Two,
My Net in EM-04 on Thursday at 7:30 PM is now going to run on the same day, but will start at 9:00 PM CST (GMT -6:00) I encourage all SWOT members to listen for me. I have also put up a new antenna at 50FT now. Hope to hear you beginning on 1 Jan 04 at (9:00PM).

Also KM5NU will be NCS 1/07-1/29

SWOT Net Reports

Here are the net reports for November and December. Unless noted, 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 November:

A total of 131 different check ins...

37 stations checked in all 5 times
21 stations checked in 4 times
20 stations checked in 3 times
15 stations checked in 2 times
38 stations checked in 1 time

Northern California (Sunday)

Month of December:

December was a wet month for Northern CA... Our two meter friends checked in and we had some great gatherings...

32 checked in all 4 times
26 checked in 3 times
26 checked in 2 times
36 wondered by once...
Totals for each week 75, 77, 75, 71
Take care and the best for 2004

Northern Missouri (Monday)

Month of December:

Date/Check ins/Grids/States

12/01... 32/14/5 12/08... 43/22/11 12/15... 30/13/5
12/22... 36/16/7

North Texas (Wednesday)

11/19... 26/15 11/26... 25/10 12/03... 31/18
12/10... 36/17 12/17... 30/16 12/24... 10/3
12/31... No Net

Southwest Oklahoma (Thursday)

12/04... 6/2/2 12/11...5/2/2 12/18... 4/2/2

East Texas Pineywoods (Saturday)

11/22... 20/10 11/29... 13/6 12/07... 5/2
12/20... 15/7 12/27... No Net

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 _____

Receive Newsletter By Email: YES _____ NO _____

SWOT and Selected 2-Meter Nets

Day	Local Time	Area	Net	Frequency	Net Control Station
SUN	8:00P	VACAVILLE CA	NO. CALIFORNIA	144.250	W6OMF LARRY
SUN	8:30A	TUCSON AZ	ARIZONA	144.250	N7SQN AL
SUN	8:30P	ZEBULON NC		144.220	N1GMV
SUN	9:30P	HOLLAND MI	MI SWAM	144.155	K8NFT
MON	7:30P	ALBUQUERQUE	NEW MEXICO	144.200	N5XZM BOBBY
MON	8:00P	COLORADO	ROCKY MT. VHF +	144.220	N0VSB W6OAL
MON	8:00P	NE MISSOURI	NORTHEAST MISSOURI SWOT	144.250	N0PB PHIL
MON	8:00P	SANDUSKY	E. MICHIGAN VHF	144.250	W8IDT BART
MON	9:00P	TIDEWATER VA		144.230	
TUE	8:00P	CA.NO CTYS	NORCAL	144.250	KF6BXH BILL
TUE	8:00P	GREENSBORO NC		144.225	K4HC
WED	9:00P	NO TEXAS	NORTH TEXAS SWOT	144.250	W5FKN BOB
THU	8:00P	CA SO CTYS	NORCAL	144.250	KA6CHJ PAUL
THU	9:00P	LAWTON/ DUNCAN OK	SOUTHWEST OKLAHOMA SWOT	144.250	W5SSG JIM
THU	9:00P	TENNESSE	UPPER CUMBERLAND	144.225	N2BR BOBBY
SAT	7:00A	EAST TEXAS	PINEYWOODS SWOT	144.250	K5LOW DON

SWOT Nets in Bold

Thanks Dennis, K4OXG for the Net information.