



# 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://www.swotvhf.org)

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

## BULLETIN # 290

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ARRIL 2003

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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 PRICE OF \$4.00 EACH + \$.50 FOR MAILING  
Badges are available from "The Sign Man", Rick Pourciau NV5A, <http://www.thesignman.com/menu.html>

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## 2003 Officer Elections for SWOT

### **Results:**

Because of a tie, we will now have 5 Board Members instead of four.

The five board members are:  
NEOP John Gieger #3390  
W6OMF Larry Houge #155  
W5FKN Bob Landrum #3152  
K5LOW Don Simonton #3194  
KA0JLF Don Pfister #3409

WD5DJT Howard Hallman was re-elected  
Secretary/Treasurer  
KM5ES John Petersen #3331 was elected Vice-  
Chairman  
KA5DWI Art Jackson #2497 was elected Chairman

We have a great collection of officers with a diversified background to help continue the exposure and growth of SWOT.

To those that were not elected, thank you all so much for accepting your nominations.

### The Chairman's Corner and The Editor's Desk

By Art Jackson, KA5DWI

#### **Education in the Way of Hamming!!!**

This is the first month that I have to combine both the "Chairman's Corner" and "The Editor's Desk". I think I am going to call the new section, "What Intelligent Things Can I Say Between Psychology Exams".

You have all honored and allowing me (No one else wanted the job!) to be your new Chairman. I thank you all for nudging me along to accept this position. I hope that I can get the membership of SWOT my best efforts in the future.

I want to thank John Petersen, KM5ES for all his efforts the past three years. He has tremendously helped the club get back on its feet again and let the Ham public know that we are still around. John of course will continue to serve the club as your Vice Chairman and as the Webmaster of the SWOT Homepage.

Congratulations to all the officers that were elected and re-elected. I look forward to working with all of you.

For me personally, I am finally getting challenged. Besides serving you in the new capacity, I am becoming a full time college student. I got jealous of Lee Kemp, N5TIF having all the fun and decided I needed to do something worthwhile with the rest of my life. I am the ripe young age of 50, and have enrolled in 3 Mini-term college courses this semester. So needless to say, I have been studying constantly for 4 weeks. I am mentally tired, but am found this invigorating. I am of the opinion now that when anyone reaches then passes their potential in the business world, they should be able to re-stimulate themselves by going back to school. This time it might mean something.

#### **Now To the Challenges Ahead.**

SWOT has been around for well over 25 years. It has had rapid growth at times and other times it was at a snail's pace. One thing that is prevalent is that renewals are nowhere it should be for a club of our size. I am encouraged to continue to see new members. The funds generated continue to allow us to pay the expenses of the bulletin. Sadly, the existing members are not continuing the necessary support to allow SWOT to expand and venture into new territories. I am encouraged by the Yahoo site's continued growth, but I feel that we failed a bit when someone drops off. I question what we could have done better to keep them on board.

As for participation from other members, I have always appreciated your articles and reports. I can always expect a few of you to regularly come through. Unfortunately, there have been too many occasions when I have had to plead with you all to send something in. Your participation is paramount to keep this going. Others would like to hear from you. What better way than to write something to share with us and pick up a pointer or two.

Also post something... anything on the Yahoo site. I know our focus is 2 Meters, but I believe anything related to VHF is acceptable. Feel free to mention anything as long as it pertains to this part of the hobby. Also invite your friends to join. We need to keep things interesting here. We are entering the best propagation of the year and I have hardly seen a post concerning openings. We need to make this an information pipeline for the membership. If you don't post anything, a lot of opportunities will be missed.

Next concern is the SWOT Website. I was hoping that it would take off. John put in some long hours getting it to work. Instead, I find it not doing as well as it should have. A few of you have expressed a complete refusal to use or support the site. One of the first objectives will be to resolve how the Website will be used. Most of the

major radio clubs have a Website to promote their part of the hobby, as well as to inform. We need to decide what is best here for all of us.

The next task is to get our membership revived. Both recruiting new members plus getting our existing ones to renew their memberships are important. To accomplish it, we will need to convince the membership that the Club is financially sound. A report of SWOT's financial condition should appear regularly in this Bulletin.

We also need to come up with new ways to increase the membership. We need a presence at the big Hamventions and the VHF Society meetings. You cannot get interest up unless you let them know you are there. (I'm ashamed that I am not going to the SEVHF gathering)

We may also want to consider restructuring how membership is granted. I have always been impressed with our Northern California (NORCAL) members. They are numerous and highly involved with nets and gatherings. I look at 10-10 International's success. Their growth has much to do with the localization of the membership. They have *Chapters* that help extend their coverage and interest. We may want to look into doing the same. Wonder if there are any localized 2-Meter clubs that we might merge with or at least enter into a promotional agreement?

So there are a few thoughts. I will not pretend that I have all the answers. I am somewhat opinionated, but I really need your ideas and thoughts. One thing I will do is to listen and respect your point of view.

Remember, I do this for the love of this hobby.

## **The Bulletin**

Thank you Don - NL7CO, Lee - N5TIF and Tip WA5UFH for your contributions this month. Enjoy.

73's

Art Jackson KA5DWI #2497

## **Returning "2" My Roots**

By Donald Ross, NL7CO

As amateurs, we go through many phases in our enjoyment of this great hobby. For most of us, it starts with an FM handheld and then, depending on our ability to learn the code, it branches out from there in any number of directions.

Long time readers of my columns know that I got

hooked on 2m SSB very early in my ham radio life with an assignment to Germany while still in the Army.

In the years since then, I have played with many things, but always seem to come back to 2m SSB - particularly 2m SSB roving. And so the circle has turned yet again, and I find myself preparing for another contest season as a rover.

There is just something really nice about going out and activating a new grid for someone. It is almost as much fun to help someone close out an operating award that they have been chasing for a while, as it is getting the award yourself. And of course there are the stories. Did I ever tell you about the time I was out "irradiating" a farmer's cows? Ever listen to NH6CJ's "tracking the buffalos" story and not been able to smile at the naiveté of some of our fellow human beings?

Fortunately, the experience gained over the years is not lost as you travel down those different byways of the amateur radio universe and I am not starting from scratch. I not only know how I want to be set up, I already have most of the things that I need to get on the air quickly. The trial by fire has already been endured and the steel is ready for use. But the rover vehicle is not quite there yet.

I will be running HF and 6m in addition to 2m this time. The low band stuff will use the tried and true IC-706MkII-15 and the AT-180 automatic antenna tuner for HF/6m/2m FM feeding a Comet HVU-6 antenna. This equipment is on hand and ready to go and will serve primarily for coordination during non-contest roves. The main station will consist of a Kenwood TM-255a lowered to 20 watts driving the TE Systems 1452G into a pair of KB6KQ loops while moving and initially two, followed shortly by four, 2M9SSB beams. The antenna mast is from an RC-254 Antenna set and will allow for quick set up to about 20' on the back of the F-150 and to 40' for more permanent setups.

Let's see, 400 watts into 18db of antennas equals BIG SIGNAL for NL7CO.

So where am I going with this set up? The first trip, hopefully over Easter weekend, will be back to the DM85, DM86, DM95, and DM96 grid intersection. Although I worked more than 100 stations from this location two years ago, many in Lawton do not have these grids confirmed on 2m. After that is the trip to the Southeastern VHF Society Conference in Huntsville, AL the last weekend of April. Follow the course of I-40 and US-72 from EM15 eastwards and you'll see the grids that I will be passing through.

And then of course, there are the upcoming contests.

Although I have other radios, there is no intent to add other bands to the rover effort, nor do I expect to use the 6m capabilities very much.

Hope to see you on the band from a grid square that you need.

Don, NL7CO/R

## **ARRL VHF/UHF Contests**

**By Lee Kemp, N5TIF**

Gene Zimmerman W3ZZ wrote in the March issue of QST about changes in contest rules and how to get better participation in the contest. I will use just one example here to show how that the number of logs submitted has gone down in the last few years.

June contest

2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
674	690	749	701	865	837	923	837	781	818

As you can see from 1993 to 1998 participation on average is 843 in those six years. From 1999 to 2002 the average is 703, about a 14 % drop over those years. And it seems that it is not getting any better. Here are some of the questions that Gene asked:

The major ARRL contests are de-facto microwave contest.

The VHF contests are boring.

Change how we score the contest.

Differentiate one contest from another.

Return to the original rover rules.

The contests are too long.

There are too few contests.

From the first question, the more bands you have the better the score. I am sure that you have heard a station on 2 Meters that you wanted to work and another station comes in and takes the station away to run the other bands. Leaving you frustrated that you was not able to work him. What I do in this case is jump in there and tell him to come back when he is finish. This does not always work, but at times it does. For those that don't have the higher bands 903,1296 and up, get 4 points for every contact that they make. In the GHz range it is 5 points per contact. I know that there is not as much activity on those bands, but it only takes a few contacts to really boost your score.

As for as the contest being boring this can be true. I find that the first few hrs is the best time to get in there and

make those contacts. After that it really slows down to just a few per hour. Now if the bands open up it's a different story, but that is a big if. By the way, another time to be in there is the last few hours of the contest as there are some guys that get in there just to give out a few contacts. Those guys need to submit a score if only it just a few points.

Now for changing the scoring in a contest I would only say that the points given on the higher bands should come down a point or two to even the playing field.

Differentiate one contest form another could be a big can of worms. There are a lot of opinions out there about this subject. And I for one will not debate it here.

Return to the original rules for rovers. YES, This is the biggest complaint that I have heard over the years. It is really bad when here in the state of Texas that we have only one or two rovers in the entire state. I have been exchanging email with N0DQS. He was the #1 rover last year. What I am trying to do is to have him come further south into Oklahoma so that a few of us here in North Texas can work him. That is how bad things have gotten here in the last few years. Now I know that many in the East and West Coast have more rovers then we have here in the Midwest. But changing the scoring for rovers could change all that.

For me the contest is not too long, for others it may be so. But the way I see it, those that have a limited time for the contest would not miss the contest all together. They would be able to set a time in which they can participate in the contest.

As for having to few contests we could us some more. The Tennessee DX Group has started the Spring Sprints, which do fill in some places. But mostly they are one band at a time. And the hours that you are running it are limited.

With all these questions how can SWOT make a difference? For one, we need to persuade as many members to turn in scores. Like I said earlier, if you only have a few points please turn them in.

Another thing is to send an email to Gene [w3zz@arrl.org](mailto:w3zz@arrl.org) or to the Membership services committee. At this time I have no URL for them.

One last thing is that the ARRL went to the Cabrillo format to submit your logs. This is a big pain for me and for others as well. The software I was using would not match up to it. But changes are on the way. I could go in detail and tell you all what I got to do but that is another story.

As I write this I am hoping that many of you will email Gene or the committee to let them know what you think. And spur more of you into participating in the contest and submitting those logs.

73's  
Lee Kemp N5TIF #3319

## **Spring 2003 North American Meteor Rally**

**C/O Louis Tipton, WA5UFH**

1. **PURPOSE:** to promote activity using meteor scatter propagation on the amateur VHF/UHF bands.

2. **RALLY PERIOD:** starts on Saturday, May 3, at 0000 UTC and ends on Monday, May 12 at 0000 UTC (Friday evening through Sunday evening, North American time.) The dates have been selected to make good use of the annual Eta Aquarids meteor shower. Please take note: this is a morning shower, the radiant being in a good position from about 0500 to 1200 local daylight time. If you operate only in the evening you will get no benefit from the shower! Sporadic meteors will be picking up by May, however, so even in the evening it should be fairly easy to make QSOs.

3. **ENTRY CATEGORIES:** Specify Low Power or High Power, Single Band or Multiband, and Assisted or Unassisted operation. Low power means less than 200 Watts output was used at all times. "Assisted" stations may use the internet, email, telephone, or other non-meteor-scatter communication to make schedules or solicit contacts. "Unassisted" stations must make their QSOs by calling CQ, answering a CQ, or tailending on another QSO. There are two exceptions to this rule. It is permissible for a Multiband Unassisted station to move a QSO partner to another band. For example, if you are working someone on 6 meters you might send "QSY 144.113" instead of "73". In addition, an Unassisted station may make schedules with other stations so long as the schedule is arranged before the Rally has begun and the other station is at least 1300 miles distant (as determined by the six-digit grid locators of the two stations). This rule is to encourage efforts to push the envelope of meteor scatter communication.

Entrants in the Assisted categories may make any normal use of email, Ping Jockey, or other scheduling aids during the Rally, but of course they may not exchange any significant QSO information by

non-meteor-scatter means while a QSO is in progress.

PLEASE NOTE: "Read only" access of on-line scheduling aids such as Ping Jockey is permissible for stations operating in the Unassisted categories. However, unassisted stations may not post anything on such sites for the duration of the Rally.

4. **EXCHANGE:** full call signs, four-digit grid squares, and final rogers must be exchanged. Any communication by non-meteor-scatter means during a contact invalidates the contact

5. **MODE:** any transmission mode (for example, CW, SSB, HSCW, FSK441, JT6M) is permitted. QSO's with the same station count only once per band, regardless of mode. The propagation mode must be meteor scatter.

6. **OPERATING PROCEDURES:** QSOs will be much easier to make if everyone adopts conventional procedures. In general, the westernmost station should transmit in the first sequence. On a directly north-south path, the southern station goes first. For scheduled QSOs in FSK441 mode you may find it desirable to use 15 second sequences rather than the conventional 30-second sequences. However, please do not use anything but 30 second sequencing on 50.270 or 144.140, the standard CQ frequencies.

All participants are encouraged to listen for "tailenders" after completing QSOs, and to listen on the standard HSMS calling frequencies (50.270 and 144.140 MHz) for CQs. The preferred method of calling CQ is the form "CQ U5 W1ABC", "CQ D13 W1ABC", or "CQ 113 W1ABC", indicating that W1ABC will be listening for replies "Up 5 kHz" or "Down 13 kHz" from the CQ frequency, or, in the third example, on 144.113. In each example the subsequent QSO will take place on the reply frequency, NOT the CQ-calling frequency.

For example: W1ABC in FN42 beams southwest and calls "CQ D10 W1ABC" on 144.140, transmitting in the second half of each minute. W4XYZ replies on 144.130 and thereafter listens 144.130. As soon as W1ABC hears a reply, he QSYs to 144.130 to send "W4XYZ W1ABC FN42", and the two stations complete their QSO on that frequency. When the contact is complete W1ABC can go back to CQing on 144.140, knowing that either a tailender or someone answering the new CQ might call him on 144.130.

As a further aid to stations operating in the Unassisted category, all participants are encouraged to look for requests to QSY to another band. After receiving RRR from W4XYZ, instead of sending "73" W1ABC might send "QSY 50.265". When

W4XYZ receives this request she immediately QSYs and starts calling on 50.265. W1ABC moves over to 6 meters when he hears no further pings on 144.133, and the pair then complete a QSO on 6.

7. SCORING: each QSO counts 1 point on 50 and 144 MHz, 3 points on 222 MHz, and 10 points on 432 MHz. QSOs originating by any of the permitted methods -- pre-arranged schedule, real-time schedule, calling CQ, tailending, or requesting a QSY to another band, are all scored the same way. Your final score is the sum of all QSO points multiplied by the total number of unique 4-digit grid locators worked, per band. Standard Rover rules apply for Rover stations; Rovers also get credit for each band-grid from which they make a QSO.

8. REPORTING: Log information must contain the following data: Date and time of QSO, callsign of station worked, frequency, grid square, claimed QSO points, and new grids by band. For example:

Date	UTC	Call	Band	Grid	Points	Mult
Dec 14	0103	W1ABC	144	FN42	1	144-1
Dec 15	1237	N4XYZ	50	EM83	1	50-1
Dec 15	1252	N4XYZ	222	EM83	3	222-1
Dec 16	0203	W9JKL	144	EN62	1	144-2

The following information should be contained on the summary sheet accompanying the log: Callsign used, Grid Locator, Power Category, Assisted or Unassisted, Single or Multi-Band, Name, Address, and Email Address (if available).

Callsign used: K0ABC  
 Grid Locator: EM48  
 Power (High or Low): Low Power  
 Assisted or Unassisted: Assisted  
 Single or Multi-band: Multi-band  
 Time Zone: Central

Name: John Doe  
 Address: 1234 Main Street  
 My Town, State, Zip  
 Email address: [k0abc@isp.com](mailto:k0abc@isp.com)

The summary sheet should include a table of the following form:

Band	QSOs	Points	Grids
50	1	1	1
144	2	2	2
222	1	3	1
432	0	0	0
-----			
Totals:	4	6	4

Total Score = 6 x 4 = 24

Logs must be postmarked or email dated no later than June 1, 2003. Email logs should be sent to [wa5ufh@ykc.com](mailto:wa5ufh@ykc.com); paper logs should be sent to:

Louis R. Tipton  
 778CR123  
 Edna, Texas 77957

Please, please send in your score! It's very easy to do, and we want to have a good record of the level of activity in the event!

9. RESULTS will be posted on a pre-announced web site.

-- 73 from Joe/K1JT, Tip/WA5UFH, and John/N6ENU, for the WSJTGROU, sponsors of this event.

### On the World Wide Web

A few sites Weak Signal operators may be interested in. Send in your favorite sites and they will be listed here.

## **HamCom 2003—25<sup>th</sup> Anniversary Jubilee**

### **ARRL NATIONAL CONVENTION**

**Arlington Convention Center, Arlington, TX**  
**June 20, 21 & 22, 2003**

**Mark your calendar for this year's biggest and best Amateur Radio Convention**

Commercial Dealers, Flea Market Tables and Outside Flea Market.

**Lone Star DX Association is again sponsoring DXTRAVAGANZA and Luncheon. There are 3 days of DX activities planned.**

**International, National and State QRP'ers have planned a weekend full of Programs and MORE. (The Brits are coming...Talley HO!)**

There will be a special line up of programs from the ARRL, President Haynie and most of the Directors. And the usual Great lineup of HamCom programs with a special Key Note Speaker.

**You won't want to miss out so register now! It's easy on the web and secure. Just go to: <http://www.hamcom.org>**



## DX Reports March 16-April 15

By Art Jackson KA5DWI

### **Aurora:**

Reported on 03/21 & 03/30-04/01.

### **Meteor:**

Somebody let us know what's happening out there.

### **Sporadic E:**

First nice 6 Meter "E" opening occurred on April 11. Hopefully things will pick up in a month.

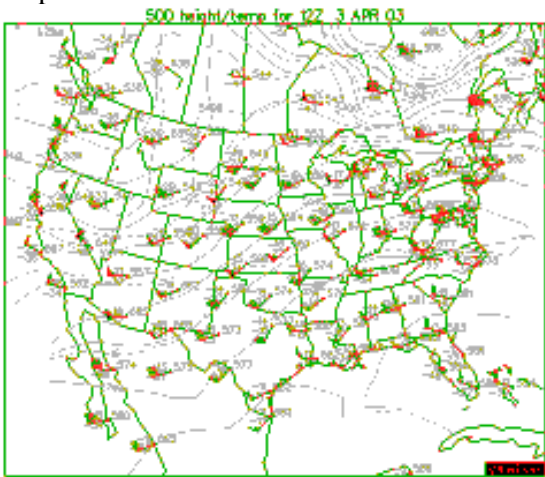
### **Tropo:**

We still continue to have some nice opportunities in the southern half of the US. Just about every frontal passage was preceded by some very good enhancement.

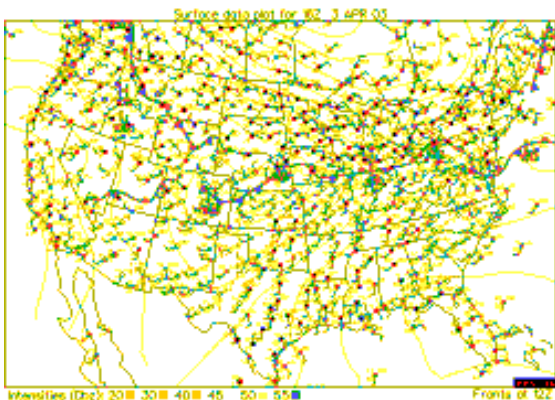
### **Best Openings:**

South Texas has been the hot place the past month. It was opened to somewhere just about every day. One of the best years I could remember. One of the best days was April 3. It was open was from North Texas into Western North Carolina.

### **Maps:**



A well-defined upper air high pressure system was located from Florida to Minnesota.



One the surface, the surface high pressure ridge was located at about the same spot. Excellent conditions along the western and northern sides of the high pressure system.

## What to expect April 16-May 15:

**Fix those antennas. Things are cooking!!**

### **Meteors:**

The April Lyrids begin on 4/19 and peak on the 4/22 at 2200UTC. It is a good North-South shower throughout the morning hours. The ZHR is around 20.

The Eta Aquarids peak 5/06 at 1025 UTC. This is the first major shower since early January. It is a good morning shower to all directions. The ZHR is around 50.

### **Aurora:**

NASA has predicted an active periods from April 23 thru April 27. Therefore, be sure to monitor *Spaceweather.Com* for possible events.

### **Tropo:**

So far the spring has been good for propagation. One of the best early seasons one can remember. The contrasts in weather systems we see this time of the year help provide us the opportunities. As mentioned last month, look for an upper air high-pressure system to develop over the southern Gulf of Mexico as a good omen. Cold systems as they move in from Canada will stall as they run in to it.

Also, as a series of Pacific systems move in from the west coast, look for a bell-shaped formation in the jet stream between them. This is indicating an upper air high. Again, look for paths on the western and northern portions of the upper air high-pressure system as it moves across the US. The slower these move, the better possibilities.

It appears the El Niño has weakened a bit. Look for sudden heat spells to be a warning of developing conditions.

### **E-Layer Propagation:**

"E" possibilities now arrive by May 1. Keep an eye for some activity beginning on 10 and 6 Meters. Very short skip on these bands leads to openings here. Remember that disturbances in the Sun can set off a surprise opening. Last year was described as awful. It should make up this year.

### **Moon:**

Best days: 04/12-13

Good days: 04/10-17, 05/08-15

Bad days: 04/21

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:** Perigee – 04/16 & 05/15, Apogee – 04/30

Full Moon – 04/16, New Moon – 05/01

Highest Declination (Elevation): 05/05-07

Lowest Declination (Elevation): 04/21-22

**Solar:** Overhead 04/16: - 10.1°S, 05/15: -18.8°N

Sporadic E Threshold on May 1

## USAF Predicted Solar Flux Average:

04/16-05/15: 122

(Down 5 from prior month)

### Meteors:

Meteor info at:

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

## Event & Contest Calender 2003

### Calendar:

<u>Month</u>	<u>Day</u>	<u>Event</u>
April	19	432 MHz Sprint
April	25-26	SE VHF Society Conference Huntsville, AL
May	03	Microwave Sprint
May	10	Reno NV Area Metro Simplex ARC Spring Ham Swap
May	10-11	50 MHz Sprint
June	14-16	ARRL VHF QSO Party
June	20-22	ARRL National Convention Ham-Com Arlington TX
June	21-22	SMIRK QSO Party
July	19-20	CQ WW VHF Contest
August	2-3	ARRL UHF Contest
September	13-15	ARRL VHF QSO Party

Send me dates important to you all.

## New SWOT Members

#3425 KB9VXQ Tracy Lambert South.Bend IN EM59

Thank you for joining.....

## SWOT Net Announcements and News

### From Howard WD5DJT:

Hello All

Our table for Hamcom this year is ROW B Table 1..

### From Phil Baldwin, N0PB:

Hi all,

The band has still be fairly quiet from here, although some of the southern states have been having some improved prop. All this last week we were in a solar wind stream that produced some aurora activity to the north, however, nothing ever got this far south. It is warming up outside and hopefully the propagation gods will provide us with some interesting openings this year.

I have had a spot for a web site available to me for a long time. I finally deddecided to use some of it. It's not much, but I do have a few pics there of the antenna systems here, with more to come in the future. Don't laugh at it if you can keep from it. Hi Hi This is definitely a new experience for me. More improvements on the way.

The URL is <http://pcbaldwin.mystarband.net/>

If you have a website that you would like me to pass along to everyone or anything else please let me know.  
73,

Phil N0PB EM39

## SWOT Net Reports

Here are the net reports for March and April. 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 March:

26 checked in once

17 twice, 16 three times, 42 four and 31 five times....

Good month with good people below is the totals for the month by week

03/02 – 96

03/09 – 88

03/16 – 89

03/23 – 88

03/30 – 75

### Northern Missouri (Monday)

03/03... 34/17 03/10... 29/14 03/17... 14/09

03/24... 15/12 03/31... 25/12

### Central Louisiana (Tuesday)

03/18... 15/09 03/25...08/08 04/08... No Net

04/12... 11/09

### North Texas (Wednesday)

03/19... 17/09 03/26... 30/13 04/02... No Net

04/09... 20/11

### Southwest Oklahoma (Thursday)

03/13... 06/01 03/20... 04/02 03/27...07/04

### East Texas Pineywoods (Saturday)

03/22... 15/09 03/29... 14/06 04/05... 11/06

04/12 ... 09/08



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## 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 \_\_\_\_\_

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## *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	COLORADO	ROCKY MT. VHF +	144.220	N0VSB W6OAL N0POH
MON	8:00P	N. CENTRAL MO.	N. CENTRAL MO.	144.250	N0PB PHIL KB0PE DAVE
MON	8:00P	SANDUSKY	E. MICHIGAN VHF	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
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	KA6CHJ PAUL
THU	7:30P	DUNCAN OK	SOUTHWEST OKLAHOMA	144.250	W5SSG JIM
THU	9:00P	TENNESSE	UPPER CUMBERLAND	144.225	N2BR BOBBY
SAT	7:00A	EAST TEXAS	PINEYWOODS	144.250	K5LOW DON