

T O S S - U P



NEWSLETTER

OCT 1990

T.O.S. S. P.O. BOX 1955

THOUSAND OAKS, CA. 91360

A.M.A. CHARTERED CLUB #1493

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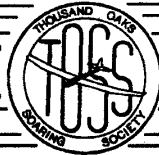
Club Winches:

Art McNamee (818) 362-2822
Chuck Griswold (805) 495-1409
Myles Moran (818) 882-4687

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Next Contest: NOV11th 1990
C/D: Ralph Morgan
Type: ???

Next Meeting: OCT 31st 1990
Place: Oaks Mall
Next to Bullocks
Hillcrest Dr. T.O.
Time 7:30 p.m.



Minutes for Sept. 1990

The meeting was called to order at 7:35 PM by President Edgar Weisman.

The Treasurer's Report was given by Chuck Griswold. \$385.00

Ten members were in attendance with several guests and potential new members also present.

A motion was passed that effective Jan 1st 1991 all radio equipment used at a TOSS field must meet 1991 AMA requirements.

Elections will be conducted at the November meeting for 1991 club officers. Please be thinking of those folds we want to nominate. (This year I'll be present for the nominations

We had a guest show up with a very nicely constructed Wanderer. (Sorry I didn't get his name) Chuck volunteered to assist him in applying his Monokote and ended up giving an impromptu demonstration. Atta way Chuck!

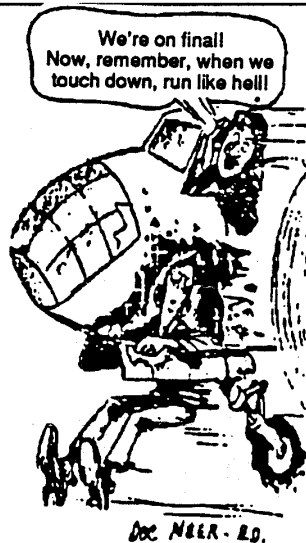
Remember that SC squared contest is at SWSA on October 28th 1990. Let's put a team together and show So Calif. what a great club we have.

Bob Goldsmith

Capt. Hendrickson Speaks

Sorry I didn't get a report on the X-Country in the last newsletter but Chuck summed up my feelings pretty well. I am suffering from BURNOUT. In any case here goes.

First let me thank Bob Swet, Mike Leal, Chuck and Edgar for if it were not for their help at the contest I would have been up a creek. Saturday morning was beautiful and not too hot. We had a pilots meeting and I explained the rules and object of the contest (to beat Wurts). It also seemed that Joe misplaced his stabs from the flying we did on Friday. There seemed to be a consensus that the one holding the "lost" stabs should auction them off to the highest bidder. Ten teams showed up with a few notables missing like Jolly and Kindrick not to mention there was only one team from TOSS, me. (Where are you guys?)



Most of us launched around 11-11:30. I provided the excitement right off the bat. I was up pretty high getting ready to head over to the start line when all of the sudden my plane started going straight down. At about warp 11 it did an outside square loop then went back up vertical at least 500 feet. It then went straight down again and when it got inverted I tried to keep it there with the rudder. That started a couple of the fastest outside barrel rolls

I have ever witnessed. It then headed for the ground again and I had just about given up on it when I got control back. Hooray!! But not for long on base leg I lost the elevator again this time it went cart-wheeling out through the desert. After a few damns (and a bunch of unrepeatable words) later it came to rest. We drove out to it with me moaning the whole way only to find the damage not too bad. Fuse and tail feathers okay and the wing fine except for the tips were crunched a little. I might point out this plane is more than strong enough and I can tell you unequivocally you could never blow it up in flight. I'll share my lamination schedule with anyone who wants to know. We put together the backup and launched it but the sniffer wasn't working as well so I landed and decided to tape up the tips and fly the smashed wing instead. In the meantime Joe's out finishing the course not once but TWICE. Todd Billman also finished and Harry Rose, Marshall Searcy and Team SULA landed out. This all happened and I haven't even started yet. We finally went on course at 2:15 and finished in 59 minutes. The lift was not as strong but neither was the sink and the cotton fields were not being watered this late in the year so they didn't have as much big sink as normal. We struggled in a couple of places getting really low but managed to carry it on our backs when needed.

The second run was for speed with Joe 15 minutes ahead of me and Billman only a minute ahead. No one else had finished the course. We still didn't start high enough but with the launch window closing in 15 minutes and the lift weakening I wanted to get on course. The first part went well then we got low at the turnpoint. I managed to work it off the deck at the



turn and headed for home. I figured we needed one more thermal. I was right, because we never hit it and landed straight ahead at a little over 18 miles. Four teams finished on Saturday Billman, SULA, Wurts and myself. Wurts setting the pace finishing three times. The rest of the field made it 10 to 11 miles.

The banquet and raffle were held at Joe's (No relationship to JW). I opted to raise the dinner tickets a buck and half so we had our choice of chicken and or beef. Everyone enjoyed the food particularly since they had a choice. Hint for next year.

Sunday dawned cooler. I might point out that this weekend the Los Angeles basin was baking in the sun and actually hotter than Taft. With the cooler weather we got a later start with the teams starting at 12 o'clock all landing 5 miles out. Joe and I started at about 12:50 and I never saw him again. I got low 5 miles out and stayed low. I'm not talking about 1000 feet. I only wish I had that kind of altitude. No, I was down at 200-500 pushing down the course in weak little gopher farts. At the turn I hit a boomer and for the first time all weekend specked out. It had taken almost an hour to get to the turn. Heading for home we passed Billman heading out. He was skied out and moving. I knew I had to run the course again and quick. We made it to the finish in 19 minutes nonstop and with altitude so we didn't have to relaunch. While we climbed up Billman finished in 42 minutes beating Joe's first time. Joe had already started packing up but not one to be beaten Joe put his plane back together again and turned a 39:51 while I was doing a 51:45. Team SULA also finished in 1:25. No other teams finished.

I elected to raffle off a Airtronics

radio to the helpers and teams that stayed for the awards' ceremony. This worked good at Santa Maria and great for us. Almost everyone stayed instead of a handful as in years' past. Definitely the way to go. Mark Cooper won the radio. It seems he made out like a bandit at the raffle the preceding evening not to mention his team won the winch and retriever we raffled off a few years back. Seems they got our number. No surprises this year in the final standings with Joe beating everyone hands down followed by Billman, myself, Team SULA, Harry Rose, and Marshal.

It was unanimous to hold the contest in September. EVERYONE liked the conditions even though the lift was not as strong. The times looked about 5-7 minutes off previous and the distances off about 3-4 miles. But it was cooler and made for a lot of fun.

A few side notes, both Edgar and Mike went on course with me and I think I even got Edgar hooked. We also had a visitor from the Iowa Great race and he says he's coming with a plane next year. Edgar also smashed his new bagged hybrid Falcon into a million bits. I still haven't found out why. The gears in my elevator servo stripped causing my problems on Saturday. I have fixed the tips already doing something that may be of interest. The tip was wrinkled and delaminated about 6 inches worth. I mixed up a batch of bagging epoxy and brushed it on the foam and into the cracks as best I could and then stuffed the whole mess into a bag and turned on the vacuum pump. I then put the tip and bag into the foam beds and set a couple of batteries on it overnight. The next morning the tip was solid and the delamination fixed. I filled the bad areas and painted it, good as new.

I have a 10 dollar SR battery gift certificate I won at the raffle I'll give to the first caller.

Someone else will need to run the X-C next year. I'd like to concentrate on flying. As you can see I do have "bum out" and I may as well tell you right now that I will not be running for any Club office next year. One final comment I do have my house up for sale and will be moving if we sell it in this awful market. Relax I'm not going far just Santa Rosa Valley about 5 miles down the road. I'd like to get a piece of property I could fly my hand launch on any time I want to. I understand Paramount is approved. I sure hope someone puts the contest schedule in the newsletter so I know where to go on what days.

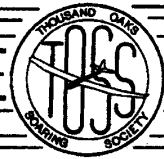
Later Eric.

C/D's For the Year:

Jan 3th	Ed Weisman
Feb 10th	Don Northern
Mar 10th	Art McNamee
Apr 6th	Ed Odenburg
May 12th	Eric Hendrickson
Jun 9th	Bob Goldsmith
Jul 14th	Terry Koolan
Aug 11th	Chuck Griswold
Sept 8th	X/C
Oct 13th	Richard Hartman
Nov 10th	Ralph Morgan
Dec 8th	Myles Moran

Well—Here We Go Again.

I just recieved word that Buddy Fox passed away. He was always there to give a hand, built fine winches and beautiful model sailplanes. We'll miss you Buddy.



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Later Eric.

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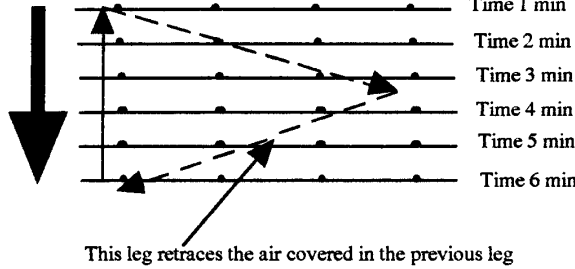
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WIND



the results of preceding flights and 3) understanding the basic dead air performance of the airplane. I will cover this as though you were going to write it down. This is the best way but

FLIGHT PLANNING
By Frank Deis
Pikes Peak Soaring Society

As with most endeavors, planning and preparation increases the likelihood of maxing the duration flights. This is especially true in competition when you don't get to pick the time and conditions for your flight. Preparations fall into two categories; 1) preparing the airplane and 2) planning the flight. Preparing the airplane is the subject of a future article. Here, we will focus on preparing a "flight plan."

It is likely that you have not thought about preparing a flight plan except when you check to see if anyone ahead of you is in a thermal. Flight planning is a technique used by competition pilots and if you don't watch them closely, you may not be aware they are doing it. The objective is to figure out where to go in search of a thermal when it is your turn to fly. Now you say "that's simple and I do it all to the time. What is the big deal?" BY the end of this discussion I hope to convince you that making and following a flight plan is not simple and that it can have a big impact on your flight scores.. Flight planning is the merging of the results of three separate activities: 1) mapping the flying site, 2) observing

it is a bit formal. Most pilots just do it in their heads. Either way will work. The important idea is that you consciously think through the flight planning process instead of doing whatever comes to mind when you get off the winch.

The first step is to map out the flying site. I try to build a picture of everything on the ground that can affect the air I might fly in. That means estimation how far away I can see the airplane and then adding 1/4 or 1/2 mile to allow for thermals to drift in or waves to form downwind or something. Now go for a walk— a long walk! Find out what is out there and where it is.

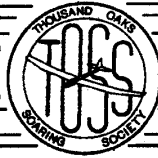
I have never been any good at guessing where the good and bad air will be. I have found sink over freshly plowed fields and lift over lakes - it makes no sense to me. Others have written extensively on this subject so I will not provide a discourse here. I will provide my belief which is more religious than scientific. In my experience, thermals seem more likely to occur where there is some change or discontinuity in the landscape to trigger it. Any change will do. A change in color, texture, moisture, angle to the sun etc. Any discontinuity that will turbulate the boundary layer next to the surface if the wind is blowing. I call these things trigger points because they give a thermal the excuse to break loose

and start to float away, so I look for trigger points. The other things I look for are features that can generate ridge like or wave lift conditions because they can help get me from one trigger point to another with the minimum loss of altitude or keep me up if I cannot find anything else. These features include hills, buildings, tree lines etc. Trigger points include roads, tall weeds, short grass, trees, buildings, gentle rolling contours, steep drops, strong moisture and color variations etc.

The day of the contest, I watch the pilots and make little notes on the map about where the thermals were, how strong they were and how far apart in time they were. This tells me what trigger points are active and how active they are. That is how I collect the results of the previous pilot's flights.

OK, we know the landscape and what is actively generating thermals. Now what? Now is the time to develop the flight plan.

You should know how much time you get (usually 3-4 minutes) in dead calm air with no thermals (dead air time) from your tests and practice. Your flight plan is a search pattern that uses all of that time to efficiently search for thermals and, if you fail to find one, return you to the landing pattern entry point with just enough altitude to make a 100 point landing. Your flight plan is based upon your knowledge of the field, the air, the previous good and bad flights. It should take you over every likely thermal trigger point avoiding likely down air spots. It should make use of slope lift, ridge lift and rotors to get from trigger point to trigger point quickly and with minimal altitude

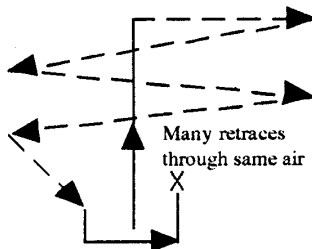


loss.

The thermal cycle (the time between thermal formations from the same trigger point) is typically longer than your dead air time. Hence, if there wasn't a thermal there the first time you visited a trigger point, there is not likely to be one there a minute or two later. Hence, the flight should never retrace itself through air you have already tested. Retracing your path cuts your opportunities of finding a thermal in half! The key to finding a thermal is to look in lots of places. Staying in one place means the thermals must come to you and they don't always understand their responsibility! If you fly in "new air" at 15 to 20 MPH for 3 to 4 minutes you will cover 3/4 to 1.5 miles! With a F3b type airplane and one of the new airfoils, you could perhaps double that! (That is why the new designs are so exciting.) Now, if you fly in a straight line for that long, finding a thermal is almost a sure bet! Obviously you can't fly in a straight line because you will lose sight of the airplane and the path would not leave you in position to start the landing pattern. We need a closed pattern that will do the job.

The particular pattern you use depends on many variables but there are some commonly used generic patterns that you can start with and then tailor to the site and weather conditions.

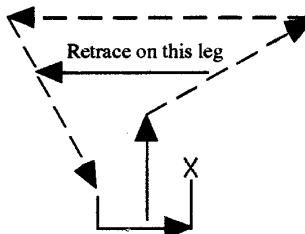
Novice "Hang around upwind until it's time to land" Pattern (A)



a) Not very efficient due to frequent retraces. Get away from this as soon

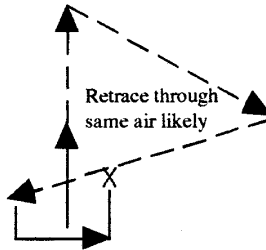
as possible.

Full upwind triangle Pattern (B)



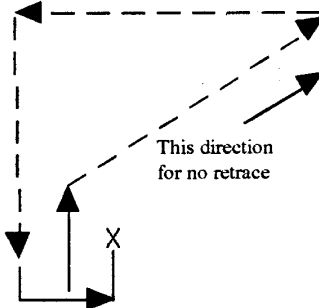
b) Better but still not good. It produces about 30% retraces.

Aft-left/right triangle Vertex out Pattern (C)



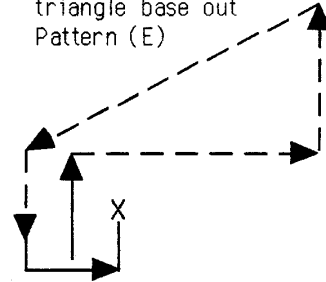
c) Poor because of 50% retrace. Note that changing direction along the path fixes the problem.

Forward left/right triangle vertex out Pattern (D)



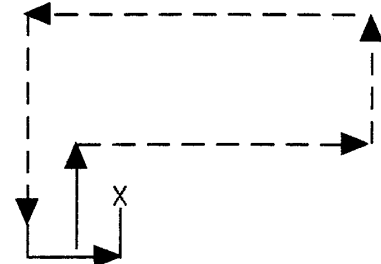
d) Not too bad, only minor retraces. Good for floater type airplanes that don't cover much distance. Best of the small patterns. If possible, fly to visual limit and back.

Forward left/right triangle base out Pattern (E)



e) Not too bad, no retraces, good for floater type airplanes and aggressive pilots. Stay at visual limit for as long as you dare.

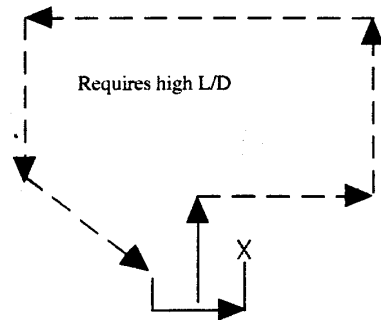
Forward left/right rectangle Pattern (F)

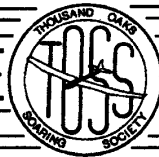


f) Covers more ground than D) or E) and keeps airplane at visual limit longer.

Also takes more courage. Efficiency drops if flown in the other direction. Requires moderate L/D to complete.

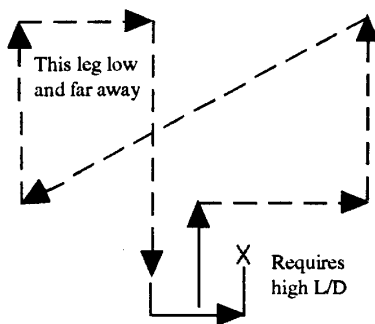
Full forward Rectangle Pattern (G)





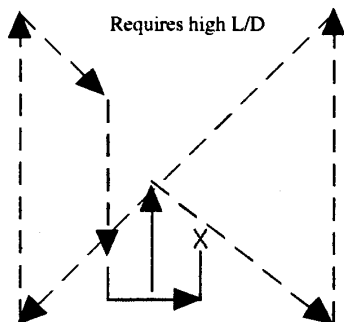
g) This one can be extended to the visual limits on both sides. Note the potential retrace problem. It can be extended to a full semi-circle at the visual limit. It requires a pretty good airplane and lots of courage to execute because you end up low and far away.

Improved forward rectangle Pattern (H)



h) Eliminates the retrace in g) and can be modified to a full semi-circle. It turns out to be a special case of a family of figure eight patterns. It requires a good L/D airplane and an aggressive pilot because you get very low very far away.

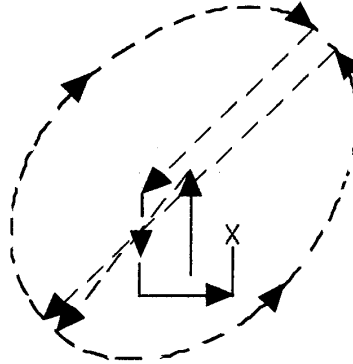
Figure eight Pattern (I)



i) These look like two forward left/right triangle- base out patterns placed vertex to vertex. They have lots of flexibility, almost no retrace prob-

lems and can be extended to the visual limits in all directions. They require very high L/D and a very aggressive pilot.

The ultimate Pattern (J)



j) This requires a fool hardy pilot, expendable airplane and a motor!

The generic flight plans are just that. They give you general sizes and shapes of the flight plan options. If you don't know your dead air performance, waste a few flights by trying a couple of generic plans. Start with (e) Forward base out triangle for example - most airplanes can complete it. If you get back with lots of altitude to spare try the full forward rectangle and then stretch it to a semicircle. If you are still too high on your return try one of the figure eight patterns. Don't cheat by riding a thermal to stretch the pattern because you won't always be able to do it. It is fun to make a quick turn if you pass through a thermal to confirm it and then move on though the plan. I like to see how many thermals I can find in a single 4 minute search. You would be surprised at the size of the number. Anyway, I think it is best to pick the largest possible generic pattern as a starting point.

The last step is to layout the

generic pattern on the landscape map. Then bend and tweak it to take advantage of the trigger points and transit (ridge lift) areas. (Remember you can always flip a pattern left to right if you need to.) Assume you will be losing altitude the whole time and include the effect of both the wind and the altitude when visiting the trigger points (ie. Thermals will be further downwind of the trigger points if you are higher.) Just for kicks I put a Falcon and a Legionair plan on the landscape map. I bent them to fit the field conditions discussed in the landscape section. If you find something, ride it. If it peters out, go back to the flight plan and continue your search.


Remember, whatever pattern you select, it should result in just reaching the entry point conditions for the precision landing pattern with 30 seconds of altitude left. Typically the home bound leg of the pattern is pretty low. Remember the search isn't over until you hit the landing pattern entry point. It ain't over till it's over.

That is all there is to it. Now that you have a plan go try it out. Flight planning is not a one shot process. You are usually well advised to change the flight plan two or three times a day as the wind direction changes and trigger points increase or decrease in activity. In my experience, if flight planning is done properly you can max. more than 90% of your attempts. The goal is a thermal every time!



Frank Deas



November 1990

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	T.O.S.S. Fun fly.Help for new fliers and practice for contests 3
S.W.S.A. Covina 4	5	6	7	8	9	TOSS CONTEST PARAMOUHT RANCH 10
11	12	13	14	15	16	17
DUST PALMSPRINGS SC² 18	19	20	21	22	23	24
Monthly contest Weedpatch Bakersfield call Myles for ride info. 25	26	27	TOSS meeting  MEETING 28	29	30	

December 1990

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						T.O.S.S. Fun fly.Help for new fliers and 1
SC SQUARED SC² TPG 2	3	4	5	6	7	MRCSS Santa Monica monthly contest. 8
TOSS CONTEST  9	10	11	12	13	14	15
P.S.S. Pasadena El Dorado Long Beach 16	17	18	19	20	21	22
23	24	25	TOSS meeting  MEETING 26	27	28	29
30	31					

T.O.S.S. Calendar of events. Please contact officers for car pool information

NORMALIZED
 Max score OCT 3000
 Highest T.O.S.S. score OCT 2857

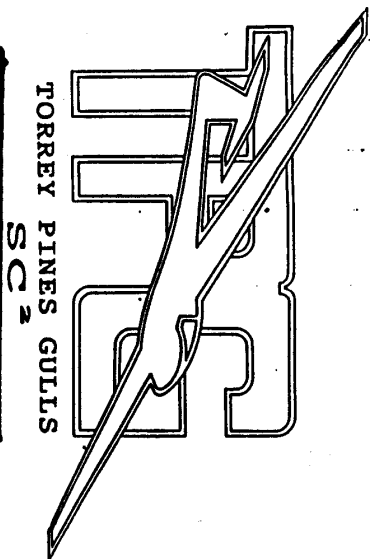
#	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT
1	NORTHERN	TOSS	6512	929	0	1000	941	991	862	952	737	0
2	KORLAN	TOSS	5700	847	971	0	0	998	0	860	0	825
3	GRSNKOLD	TOSS	5645	0	0	817	924	982	1000	821	1000	0
4	WESMAN	TOSS	5514	0	320	882	827	0	768	669	872	874
5	WAWWEED	TOSS	5363	0	780	966	878	1000	0	910	831	0
6	SWET	TOSS	4709	0	790	0	674	764	0	904	612	965
7	OLENEBORG	TOSS	3924	892	569	0	722	959	0	782	0	0
8	NOBYAN	TOSS	3455	0	0	928	0	897	0	0	633	1000
9	HARTMAN	TOSS	3379	1000	881	742	0	0	0	0	756	0
10	BERAL	PSS	2826	0	0	0	0	896	996	0	0	933
11	HELDORSSON	TOSS	2742	0	0	0	972	872	0	0	897	0
12	BAJNER	PSS	2580	0	0	0	0	918	752	0	0	919
13	WALTERS	TOSS	1868	0	1000	968	0	0	0	0	0	0
14	WICKERS	TOSS	1773	0	0	0	775	0	0	1000	0	0
15	WAWWEE	TOSS	1653	0	0	744	0	910	0	0	0	0
16	NIBLEY	TOSS	1458	690	0	0	808	0	0	0	0	0
17	DOUGLASI	SWSA	1458	0	0	0	0	0	0	810	0	648
18	GOLDSMITH	TOSS	1347	0	0	0	0	0	0	825	722	0
19	GRANNOCK	SVSF	1000	0	0	0	1000	0	0	0	0	0
20	BURNS	PSS	983	0	0	0	0	0	983	0	0	0
21	WACHERT	TOSS	979	0	0	0	0	979	0	0	0	0
22	BAJIKOVICK	PSS	814	0	0	0	0	0	814	0	0	0
23	TURNER	??	631	0	0	0	631	0	0	0	0	0

2 METER CONTEST
 NORMALIZED TO 1000

NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT
1	GOLDSMITH	TOSS	3286	891	305	0	798	888	0	0	403
2	GRSNKOLD	TOSS	2714	0	0	0	1000	1000	714	0	0
3	HELDORSSON	TOSS	2626	0	0	0	784	990	0	842	0
4	SWET	TOSS	2000	0	0	0	0	0	1000	0	1000
5	OLENEBORG	TOSS	1732	1000	732	0	0	0	0	0	0
6	WESMAN	TOSS	1339	0	0	0	664	678	0	0	0
7	WACHERT	TOSS	1279	619	650	0	0	0	0	0	0
8	VAN HANRSVELT	TOSS	1086	0	0	0	513	553	0	0	0
9	WALTERS	TOSS	1000	0	1000	0	0	0	0	0	0
10	WACHERT	TOSS	899	0	0	0	899	0	0	0	0
11	MCNAMEE D	TOSS	869	0	869	0	0	0	0	0	0
12	WICKERS	TOSS	857	0	0	0	857	0	0	0	0

SPORTSMAN CLASS
 NORMALIZED TO 1000

	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OCT
1	LEAL	TOSS	3349	0	0	753	1000	580	1000	0
2	GOLDSMITH	TOSS	3184	823	463	0	889	1000	0	0
3	VAN HANRSVELT	TOSS	2947	0	0	0	671	574	0	0
4	BAJIKOVICK	PSS	2739	918	0	1000	0	821	0	0
5	MCRCAN	TOSS	2714	714	1000	0	0	0	0	1000
6	MES	SCSA	1000	1000	0	0	0	0	0	0
7	JIMENEZ	TOSS	656	0	0	0	0	0	0	656



TORREY PINES GUILS
 SC²

DATE: DECEMBER 2, 1990
 PLACE: MONTGOMERY-WALLER PARK
 TIME: 8:45am Pilots meeting
 9:00am First flight
 C/D: GARY ANDERSON (619) 429-8281

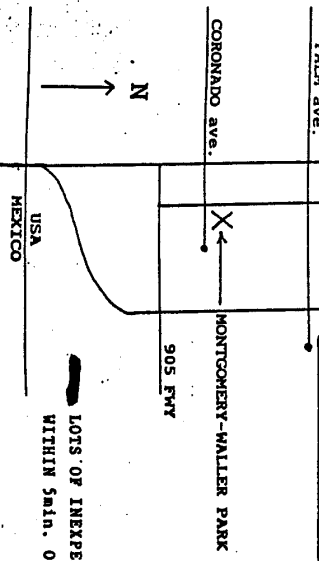
JOIN US FOR A
 WEEKEND OF FLYING

ROUND #1, #2, & #3 CONTESTANT FLIES
 EITHER A, B, or C. PILOTS OPTION
 A) 3 MIN. FLIGHT AT 700 POINTS.
 4 points/second off of time.
 LANDING at 300 points.
 B) 5 MIN. FLIGHT AT 800 POINTS.
 3 points/second off of time.
 LANDING at 200 points.
 C) 7 MIN. FLIGHT AT 900 POINTS.
 2 points/second off of time.
 LANDING at 100 points.

I-5 805 FMV

SCHEDULE:

SATURDAY A.M. PRACTICE, WINCHES SET
 UP APPROXIMATELY 8:30am
 SATURDAY P.M. SLOPE FLYING AT TORREY PINES
 SUNDAY A.M. CONTEST FLYING



LOTS OF INEXPENSIVE LODGING
 WITHIN 5min. OF THE FIELD.

~~DUST~~
~~DUST~~

**DESERT UNION OF SAILPLANE
 THERMALISTS
 (DUST)
 ANNOUNCES
 SC 2 R/C SOARING CONTEST
 AT OUR NEW PERMANENT FLYING SITE**

*THIS IS
 CORRECT*

DATE: Sunday, November 18, 1990
 Times: Practice flying 8:00 to 9:15 AM
 Pilots meeting 9:15 AM
 Registration Ends, 9:30 AM
 CO-CD's George Ritter (619) 346-5767
 Rex Powell (619) 564-1921
 Dave Hall (619) 320-5814
 DUST President: Dave Hall (619) 320-5814

LOCATION: DUST Flying field, Empire Polo Club Grounds, Indio, CA (see map on back)

EVENTS: Three rounds of precision duration. Pilots choice of:

- 3 Min. Scored 700 Pts flight (minus 4Pts/sec over or under time) / 300 Pts landing
- 5 Min. Scored 800 Pts flight (minus 3Pts/sec over or under time) / 200 Pts landing
- 7 Min. Scored 900 Pts flight (minus 2Pts/sec over or under time) / 100 Pts landing

- Round 1 Starts 09:30 ends 11:00
- Round 2 Starts 11:00 ends 12:30
- Round 3 Starts 12:30 Ends 14:00

OPEN WINCH Sign-up sheet for congested frequencies
 Standard 25' radius landing circle

WINCHES: DUST Club winches, 12 volt DC. With Mechanical Retrieval
 LINE LENGTH: 700' plus to the turn around
 LANDING SURFACE: Mowed grass
 SPECIAL RULES: NO ZOOM LAUNCHES!!!

I would like work.

