

# AUGUST MEETING

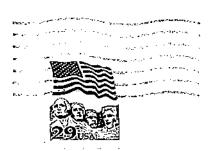
THE AUGUST MEETING WILL BE HELD ON WEDNESDAY AUGUST 7, 1991 AT 7:30 P.M.

LOCATION: CLUBHOUSE AT LAKES AT SEABRIDGE condos. See MAP and INSTRUC-TIONS INSIDE.

Mark Hambelton from D.C.U. Aircraft will be the guest speaker.







# FIRST CLASS MAIL

WILL CONRAD 9359 SHRIKE AVE FOUNTAIN VALLEY, CA 92708



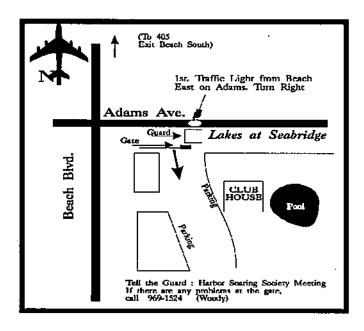
# (The Soaring) Society Column

President:	Norm Kutch	(714) 662-0182
Vice Pres.:	Jim Parsons	(714) 636-9867
Secretary:	Brian Germaine	(714) 241-3878
Treasurer:	Frank Chasteler	(714) 545-2185
Contest Coord:	Ben Clerx	(714) 721-8848
General Dir:	Bob Sliff	(714) 895-1203
Newsletter Ed:	John Ostrowski	(714) 847-4871

The Harbor Soaring Society newsletter is published monthly. Editorial comments and articles are welcomed. Please provide all material for consideration by the 15th. of the month prior to publication. Wordprocessed material is appreciated (any major IBM compatible disk format and program). Handwritten material must be clear and legible. The editor reserves the right to edit all material. Submissions should be made to John Ostrowski in person or by mail to: 8902 Lawrence Ave, Westminster, CA 92683.

#### MEETING LOCATION

You will need to check in at the gate. Tell the guard you are there for the HSS meeting. If there are any problems, call 969-1524. A big THANKS to Woody Grosvenor!



## **CLUB MINUTES**

The meeting was called to order at 7:35 P.M. July 3, 1991. Guest speaker Mark Hambleton could not makes it. He will be at our next meeting. Frank Chasteler gave the treasurer's report. Permits for the rest of the year for the field have been obtained. Jim Parsons brought one of DCU's Wind Weasel kits for the club to see. Jim complemented Pete Young's article about our last contest. Good work Pete. The ``dawn-to-dusk" sailplane event will conflict with the club-sponsored slope race on the same date.

Pete Richardson presented a possible format for club records and a discussion. Records would be for duration and distance, not leaving the field area. Norm Kutch suggested that we have at least four of our members try this type of distance as a guideline.

Frank Chasteler gave a report on the S.U.L.A. S.C.<sup>2</sup>. Roger Lackey now moves to Expert in S.C.<sup>2</sup>. H.S.S. is in first place with a comfortable margin. Out of 89 contestants, H.S.S. had 20 entries.

Norm Kutch suggested that the club buy winches so that more winches would be available on Wednesdays and Saturdays. He also suggested possibly fund raising projects to help offset the cost of this proposal. We could also try to pick up damaged winches that could be repaired for club use. The idea of a night flying session was discussed. Tony Martin described how it is done. The possibility of having a night session after next month's meeting was discussed. The meeting closed at 8:25 P.M.

Ross Thomas, Acting Secretary

# PRESIDENT'S COLUMN

#### Norm Kutch

Here it is, August and Summer is in full swing.

My Summer projects are falling behind as I enjoy the wide open skies. I have been accused of working the thumb on my right hand too much. Well, there are these good flying sites that must be flown, sites other than in Costa Mesa. I would like to share some of these places with you, especially if you need a break form those Summertime projects around your house.

Turtle Rock

A climb up to the top provides a great view and some high flying.

(Turtle Rock Dr./Rimrock Dr., Irvine)

Crystal Cove Very good ridge flying over the

beach, the cliff is 100 ft. + with no obstructions for a mile in each direction. (State park between Newport & Laguna)

Back Bay Where you can fly over the

boats. (Newport Beach,

Westcliff Dr./Morningstar Ln.)

Dana Point The Bluff is over 300 ft, high It is bowl-shaped & exciting to fly.

(Dead-end of Green Lantern)

Sea View Park You can fly forever. (off Crown

Valley/Pacific Island Dr.)

Kite Hill Tops it off. (Laguna Niguel

Regional Park)

I could go on and on on the merits of flying some of these sites as well as many others, but you probably have some projects awaiting you and I wouldn't want to keep you from your work. But remember, all work and no play made Jack a dull boy. Oh yeah, my projects are still there, but I have the rest of the Summer for those.

P.S. A special thanks to Pete Young for his well-written & enjoyable article on our June contest. Pete Richardson — who is picking up the ball and doing something to create the rules for the H.S.S. club records (duration and distance goals).

## JULY CONTEST REPORT

#### **Brett Young**

On the 7th. of July Ross Thomas opened the Harbor Soaring Society monthly contest at Fairview Park. This contest would be a tune-up for the July SC<sup>2</sup> contest, which was hosted by the North County Clouds. A 4 or 7 minute task was set with a carrier-type landing system. the scorers were using cheat sheets to calculate scores.

The landing was measured with a long pipe, measured off in inches. A landing judge measured off the centerline of the runway with the pipe to get a landing score. The pipe also served as a crowd control device and anti-sandbagging weapon, although neither seemed to be too much of a

problem. One new rule was being used at this contest. The club Board decided prior to this contest that if a sailplane came off the towline less than half-way up, it would be considered an equipment failure and a relaunch was appropriate. Above halfway (ed.: actually at the point of rotation), however, you had to fly it out unless the line broke.

With all the technicalities aside, the twenty-nine open contestants got ready to fly. The air was beginning to look very promising for thermals. A light wind was coming from the bluff and a few high clouds were in the sky. These conditions persisted throughout the contest with an increase in wind later in the day. Moderate thermals were abundant all day, except, of course, when I flew. In that case they seemed to deteriorate just when I decided to go for a 7 minute flight. there were no major problems with frequencies but the lack of a good winch and retriever batteries made 3rd. round launches marginal at times. every battery counts at the contests. Remember to bring `em out!.

At the end of the day, Tony Martin won 1st. for two-meter. Larry White was 2nd., and Roger Lackey came in 3rd. Jim Boese won Sportsman in Open class while first-time contest flyer Don Ramsey placed 2nd. with a Gemini. Advanced was won by Steve Hendry, followed by Brian Joy in second with a trusty Gnome. In Expert, Roger Lackey took 3rd. with his Falcon 880 and Tony Martin placed 2nd. Ben Clerx won the class flying his Falcon 880. My only question is this: would Ben have done better if he had two working ailerons?

#### AUGUST CONTEST

Ben Clerx, C.D.

Date: August 11, 1991

Format: All rounds are 2 minute precision. Four rounds will be run. Best 3 of 4 rounds count. Total flight points per round = 500 (bell curve). Total landing points per round = 500. Landing procedure will be a runway (carrier) landing.

Schedule: Pilot's meeting at 8:45 A.M. First round at 9:00 A.M.

Launch Order: Two-Meter first



## THERMAL HUNTING PART II

#### Ben Clerx, Contest Coordinator

In Part I we talked about search patterns and the importance of keeping the plane moving, searching until lift is found. The more ground (sky) that is covered, the more likely you are to find lift (or sink). That brings us to this month's topic — how to make your plane cover more ground. I'll keep the explanation simple, but add enough detail for those interested in aerodynamics.

Full-scale sailplanes (as should models) are generally flown at one of two air speeds: best L/D speed while searching for lift or minimum sink speed while circling in lift. The best L/D (lift-to-drag ratio) speed is the faster of these two speeds, and the sailplane covers the most forward distance for a given altitude (although at a higher descent rate). This speed is noticed as a fast cruise in model sailplanes (unless your high-tech bird is equipped with angle-of-attack or airspeed indicators that can be referenced, fast cruise is the only definition I can offer).

The minimum sink speed is noticed as a slow, gentle glide, just prior to the stall, and the sailplane remains airborne for the greatest amount of time for a given altitude (but doesn't cover much ground). (Note: Those of you with some knowledge of aerodynamics will know that best L/D and min. sink refer to specific angles of attack [angle that the airflow strikes the wing]. Since angle of attack is proportional to airspeed at a specific weight and g-loading, airspeed is generally used to describe these two angles-of-attack conditions.)

Well, there you have it: fly a bit faster than normal when searching for lift and slow down when you've found it. You probably won't be able to precisely determine these two speeds, but you can get pretty close by experimentation. One technique is to use half your available down elevator trim on your transmitter to approximate the best L/D speed and half your up elevator trim for min. sink when you've found lift. Experiment! Just don't make the mistake of circling and floating around at min. sink speed, the plane comes down a bit slower, but you probably won't float out the 7 minutes for a max. Two-to-four minutes is al you should expect from a normal launch without lift. Watch the way gulls and hawks vary their speed.

Next month I'll talk more about optimizing best L/D and min. sink in your flying technique, including the use of ballast.

## HARBOR SOARING SOCIETY RECORDS

#### Pete Richardson

DURATION: The duration record will be defined as the total time of flight beginning at the moment of tow-line release and ending at the moment of contact with a ground-based object. Restrictions: The sailplane must land within the normal boundaries of the field. The flight must be sustained by thermal lift.

DISTANCE 1: The distance 1 record will be defined as the minimum time to fly from a base point (current launch area) to a remote point (northwest corner of the park) and return to base point. Discussion: this allows records to be safely set within the confines of the park. Full-size sailplane records are similar to this description.

DISTANCE 2: The distance 2 record is defined as the maximum distance (course length times number of laps) over a set triangular course confined to the park area. Discussion: This allows for unlimited distances within the confines of the park.

DISTANCE 3: The distance 3 record is defined as the minimum time to complete a required number of laps (e.g. 10) over a set triangular course which is confined to the park area. Discussion: The course for distance 2 and 3 may be set up in such a way that the pilot does not have to chase the sailplane around the course.

CLASSES:

Open: over 2-meter wingspan and winchlaunched.

Two-meter: under 2-meter wingspan and winch launched.

Hand-Toss: under 70" wingspan and handlaunched.





#### PILOT OF THE MONTH

Pilot of the month for August is one of the younger members of H.S.S., who flies like an old pro. He is also the current club secretary:



#### Brian Germane

Occupation: Full-time student at Mater Dei High.

Started flying sailplanes: 1988, at Turtle Rock.

Reason for Interest: My dad gave me that first trip to Hobby Shack when I was five years old.

First R/C sailplane: Dynaflite Wanderer, which I still have.

<u>Favorite part of the sport</u>: Both thermalling and and slope, although slope planes are better looking.

Goal for 1991: To finish my airplane and place higher in the club standings.

<u>Current gliders</u>: A Gemini and my own design slope racer. soon to be completed: my own design thermal ship.

Greatest flying strength: Thermalling.

Advice for beginning pilots: Get all the advice you can and make every flight a contest flight.

## FORGET THE MEMORY EFFECT

The infamous label memory effect has haunted nickel-cadmium cells since the mid-1960s. It was originated to describe a phenomenon observed in the power system of a U.S. satellite. The memory effect implies that a ni-cad cell can forget how to deliver all of its charge if continually partially discharged to the same level. In other words, if a rechargeable 2-h battery runs 5 min. each day, it will turn into a 5 min. battery.

Memory effect seems to be brought on by certain conditions. first, the battery must be designed with cell cutoffs above 1 V. Second, it must be repetitively discharged to about the same shallow level. Third, it must receive no overcharge. If the three conditions are satisfied, then there is a remote chance of permanent loss of some capacity.

Since the mid 1960s, memory effect has been the 'cause' of almost every conceivable rechargeable-product malfunction. To avoid it, fearful users have vigilantly enforced complete discharge of the battery on each cycle. But in reality, memory effect has been officially diagnosed in only that one instance in outer space. The overuse of the term may be a case of confusing memory with a similar phenomenon called voltage depression.

Voltage depression refers to a drop in Nicad discharge voltage. It is caused by a combination of poor design and product misuse which lowers anode oxidation efficiency during discharge. Again, cutoff voltage must be above 1 V. In this case, however, the battery must excessively overcharge for extended periods of time, when these conditions coincide, products may experience voltage depression which, like a high cutoff, reduces runtime.

Voltage depression was something of a problem with early Nicad cell technology of the late 1960s. It was common with improperly applied batteries made with primitive technologies of that time. Modern electrode technology, however, has nearly eliminated the problem.

The ability to prevent voltage depression is in the hands of the designers. Keep the cutoffs below 1 V, and the effect will not be noticed. Users could help by varying the depth of discharge or runtime occasionally. But voltage depression is practically a nonissue because it is completely reversed after the first duty cycle. If it does occur, it shortens only the first run.

Source: Basics of Engineering Design

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#### SWAP SHOP

FOR SALE: TOP FLITE ANTARES, 100 in. span sailpane kit, \$55.00. VOLT-OHM-AMP METER, 0-1000 volts DC - 12 ranges, 0-1000 volts AC - 8 ranges, 0-20 MegOhms - 5 ranges, 0-10 Amps - 10 ranges, \$25.00. Call after 6:00 P.M. Ask for Dave, 839-4317

MFA HIGH SIERRA 2-meter. Polyhedral, glass fuse, foamcore sheeted wings. Penetrates well, good first slope ship. No radio gear. \$75 or best offer. Call 847-4871 ask for John.

Futaba G-Series 7-channel with a micro 4-channel receiver on channel 40 AM, NOT GOLD STICKERED with servos, \$40 or best offer. Gnome hand-launch glider kit, \$15. Speed Astir, 1/5 scale glider kit, glass fuselage, built-up wings, some scale documentation, \$80. Contact: Dennis Brandt (714) 821-4181 (leave message).

For sale: foam and glass Legend wing \$200. Call Phil, 589-9136

For sale: Synergy III, includes 4 servos in the wings, wire harness for Airtronics receiver. \$475. Legionair 100, polyhedral \$30. Call Pete at 557-4782, evenings.

Place your ad in Swap Shop for the low, low price of - FREE. Just make sure you provide the information to the editor by the 15th. of the month. Ads must be renewed each month. Please indicate whether radio equipment meets 1991 standards.

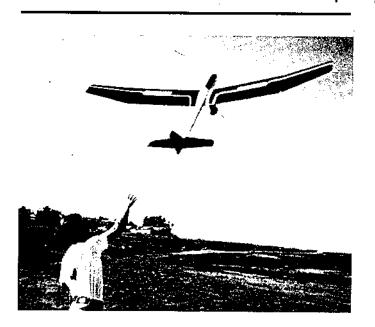
#### **EDITOR'S NOTES**

Last month we ran a long list of potential names for the newsletter. In that article I asked you to express your preferences. Since noone has seen fit to do that (or come up with anything better), I will give you mine. Of the names listed, my favorites are:

AirWaves Pop-Off Thermal Currents

Unless I hear objections, I will select from one of these names for the newsletter. If you don't kike that, then you come up with a better name!

By way of a short review, I recently purchased a Feather-Cut foam-core wing cutting kit. I am impressed with the device. It certainly seems to operate as advertised, although Dale Lemmons and Ross Thomas suggested (and made) some very useful modifications. The first plane with the cores cut with the Feather-cut is nearing completion. I just hope it flies as well as the cores cut! One last note, the manufacturer recommends using two templates (upper and lower) per side. I've found that it is necessary to allow about 1/16 inch additional width at the trailing edge, otherwise the chord gets shortened. Perhaps using a male template would solve that problem. If anyone has any tips or experiences in using the newer construction techniques, write them up for us. There is certainly a lot of interest in foam wings and vacuum-bagging in the club.





See you're practising inverted flying again Steve! But there is an easier way!!

1991 CONTEST SCHEDULE - Ben Clerx Contest Coordinator

CONTEST
HSS Club Contest
F3E Team Selection (Bid by HSS) (18th. makeup)
SC <sup>2</sup> Pasadena Soaring Society
HSS Sponsored Slope Soaring Contest (25th. Makeup)
HSS Club Contest
SC <sup>2</sup> Harbor Soaring Society
CVRC SoaringFest (Visalia)
HSS Club Contest
SC <sup>2</sup> Silent Wings Soaring Association
HSS Club Contest
SC <sup>2</sup> Harbor Soaring Society Lee Renaud Memorial
HSS Club Contest

# **AUGUST SC2 CONTEST**

Location: Pasadena Soaring Society

Date: August 18, 1991

Format: Standard 3-5-7

No flyer with details was provided



## **HSS VIDEO LIBRARY**

NAME	COMMENT	RATING (0-5)
RC Video Magazine (Vol. 7 - 86)		
Striking Back		4
Foam, Fiberglass, Flight		4
Tournament of Champions (88)		
Monokote I & 2	Interesting	3
MIG Killers	·	3
Hook down, Wheels Down	Navy Aviation Hist	4
F3E - Bridgeman's Plane		
Electric Flight		none
Dawn Patrol	WWI Movie	4 ·
Thunderbolt, Flight for the Skys	WWI Air Combat	5
F3E USA Finals 6 -22-88		

More tapes are being added all the time. All tapes are VHS format. For information about borrowing a tape, ask at the next meeting.

# HARBOR SOARING SOCIETY SUPPLEMENTAL MEMBER DIRECTORY AUGUST 1991

SIPOSS, GEORGE

(714) 540-5452

(724) 966-1272

2855 VELASCO LANE

COSTA MESA, CA 92626

BRADFORD, JOHN 2212 CLAIFPARK WAY ANAHEIM, CA 92806 (714) 772-1831

BYRNE, JAMES F. 3014-C JEFFRY DR COSTA MESA, CA 92626 (714) 540-3774

(714) 259-2006

BYRNE, JANICE I.
3014-C JEFFRY DR.

COSTA MESA, CA 92626 (714) 540-3774 (714) 639-7810 CARROLL, DENIS 7521 SUZI LANE WESTMINSTER, CA 92683

(714) 847-2084 (714) 898-4800

HESTER, HERB 20312 BAY VIEW AVE.

SANTA ANA (HEIGHTS), CA 92707

(714) 756-9108

SANDERS, ANDREW 388 BUCKNELL RD. COSTA MESA, CA 92626

(714) 751-9235 (714) 548-7751

# F3E TEAM SELECTION

On August 16 - 17, Harbor Soaring Society will host the 1991 F3E team selection trials.

Workers are needed for this event!

If you would like to assist and be able to observe the top electric fliers in action, contact:

Frank Chasteler: (714)545-2185

or

Bob Sliff: (714)893-8311

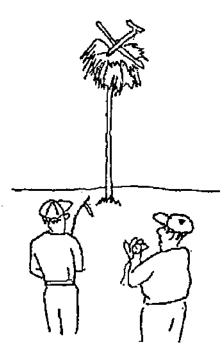
#### HSS YEAR-TO-DATE STANDINGS OPEN CLASS (BEST 6 OF 7)

PLACE		ÜE	TCLASS	SCORE	NONWALIZED	monne
	CLEAX	BEN	EXPERT	2037.0	1000.0	
<u>~[2</u>	MARTIN	TONY	EXPERT	2930.0	997.6	2NO.EXP.
3	LACKEY	ROGER	ADVANCED	2899.0	987.1	3RO, EXP.
4	GARNER	RICH	EXPERT	2865.0	975.5	0.0.074
5	HENDRY *	STEVE	ADVANCED	2854.0	971.7	1ST, ADV.
6	KUTCH	NORM	EXPERT	2792.0	950.6	
7	,XOY	GEORGE	EXPERT	2756.0	938.4	
8	JOŸ	BRYAN	ADVANCED	2745.0		2ND, ADV.
9	RICHARDSON	PETE	EXPERT	2633.0	898.5	<u></u>
10	DANRICH	DAN	ADVANCED	2616.0	890.7	
111	ONNANOS	TONY	ADVANCED	2554.0	869.6	
12	FINK	STEVE	EXPERT	2543.0	665.8	
13	SUFF	BOB	EXPERT	2497.0	850.2	
14	WHITE	LARRY	EXPERT	2484.0	845.B	
15	BOESE	JIM	SPORTSMAN	2456.0	836.2	1ST. SPTS
16	RAMSAY	DON	SPORTSMAN	2441.0		2ND SPTS
17	THOMAS	ROSS	EXPERT	24320	628.1	
18	LAIR	DAN	SPORTSMAN	2407.0	619.5	_
	CRON	AL	EXPERT	2356.0	802.2	
	HESETAR	EDWARD	SPORTSMAN	2353.0	801.2	
	POULSEN	GORDON	EXPERT	2351.0	800.5	
	PITSCHKE	GORDON	EXPERT	2272.0	773.6	
23	NEMECEK	DAVID	EXPERT	2176.0	740.9	
	YOUNG	BRETT	SPORTSMAN	2061.0	701.7	
	PARSONS	JM	SPORTSMAN	2055.0	699.7	
	NEHRING	CURT	SPORTSMAN	2004.0	682.3	
	AZVEDO	GEORGE	SPORTSMAN	1963.0	568.4	
	HOWELL	WAYNE	SPORTSMAN	1863.0	634.3	
29	CHAMBERUN	RALPH	SPORTSMAN	1737.0	591.4	

\*STEVE HENDRY MOVES TO EXPERT

### HSS JULY CONTEST -TWO METER

PLAC			SCORE	NORMALIZED	TROPHY
	1 MAATIN	TONY	2941.0	1000.0	151.
	SIMHITE	LARRY	2898.0	985.4	2ND.
	3 LACKEY	ROGER	2867.0	974.8	3RD.
	4 KUTCH	NORM	2754.0	936.4	<u> </u>
	5 THOMAS	ROSS	2743.0	932.7	
	6 NEHRING	CURT	2721.0	925.2	
ر <sub></sub>	7 RICHARDSON	PETE	2720.0	924.9	
	8 CHAMBERUN	RALPH	2573.0	674.9	
	9 JOY	BRYAN	2564.0	671.8	
	0 JOY	GEORGE	2475.0	641.6	
	1 YOUNG	BRETT	2461,0	636.8	
	2 PARSONS	JM	2390.0	812.6	
	3 SUFF	808	2161.0	741.6	
	4 CONRAD	WILL	1974.0	671.2	
1	5 BUZOLICH	NICK	1392.0	473.3	



"Well, wait until nine minutes and thirty seconds then go shake the tree."

- Courtesy DUST "Dust Devil"

PLACE	NA.		TAL TOA		Total I see see
1-15/14	JOY NA		CLASS		CONTESTS
1		GEORGE	EXPERT	5729.0	. 6
2	CHASTELER	FRANK	EXPERT	5673.4	- 6
3	ZINK	DON	EXPERT	5647,1	6
4	LACKEY	ROGER	ADVANCED	5593.6	6
	KUTCH	NORM	EXPERT	5545.2	6
	SUFF	BOB	EXPERT	5453.1	
7	GARNER	RICH	EXPERT	54329	е
8	JOY	BRYAN	ADVANCED	5427.3	6
9	FINK	STEVE	EXPERT	5404.4	- 6
10	THOMAS	ROSS	EXPERT	53925	- 6
11	RICHARDSON	PETE	EXPERT	53727	- 6
12	DANHICH	DAN	ADVANCED	5323.3	- 6
13.	WHITE	LARRY	EXPERT	5270.1	- ë
14	SMITH	MORRY	ADVANCED	5219.3	- 6
15	NEMECEK	DAVID	EXPERT	51628	- 6
18	PANTZAR	DICK	EXPERT	5160.6	. ĕ
17	CRON	AL.	EXPERT	5130.2	
	MARTIN	TONY	EXPERT	4988.6	6
19	RITSCHKE	GORDON	EXPERT	4888.0	5
20	YOUNG	BRETT	SPORTSMAN	4872.7	6
21	NEHRING	CURY	SPORTSMAN		- 6
22	HENDRY	STEVE	ADVANCED	4767.0	- 6
	PARSONS	JM	SPORTSMAN	4773.7	6
	POULSEN	GORDON		4647.6	<u>6</u>
25	GERMANE	BRIAN	EXPERT	4595.7	5
26	RESETAR		ADVANCED	4320.6	5
27	LAIR	EDWARD	SPORTSMAN	4224.2	. 5
		DAN	SPORTSMAN	4070.2	5
	GER8IN	ROBERT Jr	EXPERT	3800.0	4
	GERBIN	BOB	EXPERT	3741.5	4
	SANDRONI	HUGO	ADVANCED	3641.8	4
	GATES	MATTHEW	ADVANCED	3600.6	4
	BOESE	JIM	SPORTSMAN	3174.4	4
33]	EDBERG	DON	EXPERT	2978.5	3
34	CLEAX	BEN	EXPERT	2956.3	3
35	RENAUD	TIM	EXPERT	28924	3
36	BUZOLICH	NICK	SPORTSMAN	2791.4	- 4
37	LUPPERGER	JOHN ,	EXPERT	2779.7	3
	COLLETT	MATT	SPORTSMAN	2499,6	- 4
	MILLS	ARCHIE	SPORTSMAN	2479.8	
	LONG	DICK	ADVANCED		
	MCLELLAN	KEITH		2430.7	
		HALPH	SPORTSMAN	2314,8	3
	STALLS	JAREO	SPORTSMAN	2256.2	3
	SCHOFRO		EXPERT	1846.2	2
		STEVE	SPORTSMAN	1753,5	2
	AZVEDO GIBBS	GEORGE	SPORTSMAN	1586.4	2
	VON GROTE	DUANE	AOVANCED	1563.3	2
	STOKER	PAT	SPORTSMAN EXPERT	1317.9	2
	OSTROWSKI	JOHN		992.2	1
	STOVALL		SPORTSMAN	941.6	
	HARRIS	LEE	SPORTSMAN	915.5	1
		PHIL	EXPERT	882.5	1
	BONANNO	TONY	ADVANCED	869.6	1
	BYRNE	JM	SPORTSMAN	855.7	1
	RAMSAY	DON	SPORTSMAN	831,1	. 1
	DUNGAN	BILL	SPORTSMAN	808.6	1
	CONFIAD	WILL	ADVANCE	769.6	. 1
	STOVALL	WILL,	SPORTSMAN	705,5	1
	HARVEY	ΉM	SPORTSMAN	677.0	1
	ROWELL	WAYNE	SPORTSMAN	634.3	. 7
	GROSVENOR	WOODY	SPORTSMAN	563,5	1
61	GREENE	DENNIS	SPORTSMAN	514.8	1

#### TWO METER (BEST 6 OF 7)

	NAME		ISCORE	CONTESTS
	HICHARDSON	PETE	5851.8	6
	JOY	GEORGE	5634.5	-e
	KUTCH	MACA	5581.3	- e
	THOMAS	ROSS	5569.6	6
	WHITE	LARRY	5460.5	
	SUFF	BOB	5348.3	е е
	JOY	BRYAN	5321.1	- 6
	NEHRING	CURT	4920.0	6
	MARTIN	TONY	4897.6	5
	FINK	STEVE	4518.5	5
11	LACKEY	ROGER	3326.7	4
12	PARSONS	JIM	2586.4	3
13	CHAMBERLIN	RALPH	2464.4	3
14	LONG	DICK	2317.3	3
15	ED8EAG	DON	1958.5	
16	BUZOUCH	NICK	1920.0	3
_ 17	MCLELLAN	KEITH	1699.3	2
18	HENDRY	STEVE	1608.1	2
19	CONRAD	WILL	1513.8	2
_ 20	ANKENBAUEF	RSTEVE	1294.1	2 2 2 2 2 2 2
21	MILLS	ARCHIE	1088.3	<del></del>
22	HALL	HERMAN	942.1	1
23	LAIR	DANIEL	922.8	1
	DONAT	KURT	855.9	
25	YOUNG	BRETT	836.8	1
26	OSTROWSKI	JOHN	194.2	1

#### SOUTHERN CAUFORNIA SOARING CLUBS S.U.L.A. CONTEST OF JUNE 30, 1991

#### CONTEST DIRECTOR - JUL BARNHART ORMALIZED TROPHY 1000.0 181. EXP. 980.0 2ND. EXP. 978.0 3RD. EXP. 972.7 4TH.EXP. 970.4 5TH.EXP. SCORE N 2984.4 2905.0 1 PERKINS 2 WURTS EXPERI EXPERI JOE BEN DON EXPERT EXPERT EXPERT EXPERT EXPERT 2803.4 4 ZINK HSS 2883.6 4 ZINK 6 CHASTELER 6 ATWELL 7 REAGAN 8 SPENCER 9 FINK 2876.7 2875.0 2874.1 2872.7 2887.1 969.8 TOSS MIKE RANOY DAN 969.1 967.2 SULA EXPERT 9 FINK 10 HENDRY 11 VICKERS STEVE DON DON 2863.5 2859.8 2857.8 2852.5 XPERT 964.7 964.0 962.3 HS9 NCC 12 EDBEAG 13 BRANDT EXPERT EXPERT 2639.9 2632.0 2631.1 958.0 1ST. SPTS FRED SPORTSMA SPORTSMA 14 6AGE LACKEY \* ROGE GARY HS 955.3 2NO, SPTS 955.0 TPG 17 | SHELBY FUCH EXPERT 2629.6 954.5 18 PARSONS 19 RICHARDSO 20 BLEDSOE SPORTSMAN EXPERT EXPERT JIM H88 2767.0 940.5 3RD. SPTS HSS TPQ BULA 2786.1 9300 2782.6 2780.5 938.7 938.0 AICH 20 BLEDSOE 21 JOLLY 22 TILLMAN 23 CHASTAIN 24 ADDIS 25 THOMAS LARRY NORM BLAYNE STEVE EXPERT EXPERT EXPERT 2765.6 2750.6 2744.1 NOC 933 0 P83 927.9 BULA HSS 925.7 910.7 EXPERT 2000.0 26 VAN GUNDY DON 27 FINKENBINER KEITH 28 MORAN MYLES 906.6 904.2 892.3 TPG NCC SPORTSMAN 2687.6 EXPERT 2680.4 TOSS EXPERT SPORTSMAN 29 BUTOVICH 30 McNAMEE 31 CHILD PSS TOBS DAVID 2636.1 889.3 EXPERT SPORTSMAN EXPERT ART MARK 889.2 ED8F P8S DU9T 883.3 875,5 32 LEVOE 33 RITTER MARK SPORTSMAN 2588.8 873.3 33 RITTEN 34 MEIENBERG KEN 35 GORDON ALAN 36 FINK STEVEN EXPERT SPORTSMAN SPORTSMAN SPORTSMAN EXPERT 2587.5 2586.7 872.9 872.6 DUST 36 FINK 37 LONG 38 JOY 39 BONANNO DUST 2580.0 870.6 2577.2 2544.0 809.4 858.2 DUST GEORGE DAVID DAVE TONI DAVID EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT 2541.1 2540.9 2540.6 657.2 657.1 SULA 40 FARLESS 41 NEMECEK HSS 657.0 42 STARK PSS NCC 2517.5 849.2 636.9 43 KEIL 44 CRON 45 PUCHALSKI 46 DOKG 2481.0 HSS AL MARK 834.0 EXPERT EXPERT 2445.9 2440.6 AL 823.4 47 MEININGER 48 BHORT 49 DEVLIN SPORTSMAN 823.3 809.6 806.2 EXPER SPORTSMAN SPORTSMAN SPORTSMAN 2364... SPORTSMAN 2364... SPORTSMAN 2364.2. SPORTSMAN 2321.3 SPORTSMAN 2321.3 PSS EOSF 803.7 797.7 50 RAGANS 50 RAGANS 51 FOSTER 52 GLASS 53 PETTEN 54 RATNER 55 WEISMAN 56 SANDRONI WILLIAM ROBERT MICHAEL MIKE EDGAR HUGO THOMAS KEN

783.1 783.0

778.8 777.3 772.3

771.8

771.2 770.0

768.0 760.0 753.9 744.0 743.2 739.0

734.4

732.0 703.8

665.0 664.6 674.0

661.3

624.4

617,0

581.5 575.9 561.3 552.2

545.2 490.0

467.2 452.7

452.3 264.5 0.0

2304.1 2399.5

2190.6

2178.9

| EXPERT | 2306.1 | SPORTSMAN | 236.5 | SPORTSMAN | 236.5 | SPORTSMAN | 226.1 | EXPERT | 2265.4

EXPERT 2265.4 SPORTSMAN 2276.7

SPORTSMAN 2252.9 SPORTSMAN 2234.8

SPORTSMAN 2177.2 EXPERT 2172.5

EXPERT 2172.5 SPORTSMAN 2006.2 EXPERT 2000.6

EXPERT 2029 3 SPORTSMAN 1986.1 SPORTSMAN 1980.5

8PORTSMAN 1828.9

SPORTSMAN 1723.1 SPORTSMAN 1707.1 SPORTSMAN 1663.9

BYPORTSMAN 1863.8 SPORTSMAN 1864.2 SPORTSMAN 1452.6 SPORTSMAN 1394.9 SPORTSMAN 1342.1 SPORTSMAN 1342.1

EXPERT

EXPERT

SPORTSMAN SPORTSMAN SPORTSMAN SPORTSMAN

#### \* FRED SAGE AND ROGER LACKEY MOVE TO EXPERT

taa TOSS

P89

SWSA

AILIR

HSS MACS

HSS TPG

HSS SWSA

HSS EDSF

1499 SULA

MRCS

MRCS HSS DUST

TOSS SULA

EDSF HSS

H8S MAC

PICH DAVID PINA BRUCE

BILL

DAN

CURT

MARVIN RICH

TONY BART

STEVE

SUE HERBERT BRETT

GEORGE

BROWNE

PETER ARCHIE

GORDON NICK

58 SANDRON 57 AKERS 58 MERENDA 59 STROSEL 60 AVESOR 61 GABRIEL

62 AVESON 63 KARP 64 KLATSKIN 65 DANRICH

66 MORTON 67 NEHRING

68 WAGER

60 GARNER 70 CALLAHAN 71 DOUGLAS

MARYIN

FRAZEE

75 CHASTELER 76 STEVENS

77 GRISANTI 78 VAN GUNDY

61 AUTTER 62 WUSON

64 STAIRS 65 MILLS 65 JOHNSON 67 POULSEN

70 JULIEN

#### **TEAM SCORES**

EXPERT SPORTSMAN SPORTSMAN

HSS 20	80LA 12	PSS 12	DUST 16	NCC 6	TP018	TOSS 6
976.0	969.1	1000.0	969.8	958.0	955.0	969.5
972.7	967.2	980.0	964,0	933.0	938.7	692.3
970.4	964.7	927,9	873.3	904.2	906.6	689,2
986.0	938.0	889.3	872.6	872.9	771.2	778.9
3885.1	3839.0	3797 2	3679.7	3666.1	3571.5	3529.9
MRCS 7	EDSF 5	SWSA 3			SFVF 0	
797.7	883.3	770.9		954.5		
753.9	803.7	760.0		783.1	1	
739.0	674.0	665.0			<del> </del>	·
617.0	545.2			$\overline{}$	<u> </u>	
2907.6	2004.2	2215 G	C (6/10/00/00/00/00/00/00/00/00/00/00/00/00/	1237.6	0.0	100000100000000000000000000000000000000

#### SOUTHERN CALIFORNIA SOARING CLUBS N.C.C. CONTEST OF JULY 28, 1991 CONTEST DIRECTOR - KEN RAYMOND

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PEACE	NAX	Æ	CLUS	CLASS	IS(CO)	NORMALIZE	TROPHY
1	ATWELL	BLAIA	OUST	EXPERT	2067.0	1000.0	IBT. EXP.
2	CLERX	BEN	HSS	EXPERT	2944.0	995.0	2ND, EXP.
3	LUEKEN	JIM	NCC T	EXPERT	2939.0	993.0	3RD, EXP.
4	WARNER	GARTH	NCC	EXPERT	2926.0	990.2	4TH, EXP.
5	RAYMOND	XEN	NCC	EXPERT	2923.0	988.5	5TH. EXP.
6	REAGAN	MIKE	TOS8	EXPERT	2915.0	986.1	
7	CLARK	DEAN	NCC	EXPERT	2911.0	964.4	
	MÉJÉNBEAG	KEN	NCC	EXPERT	2909.0	983.6	
	BLEDSOE	RICH	TPG	EXPERT	2877.0	9729	
	SAGE	FRED	NCC	EXPERT	2965.0	989.2	
	AKERS_	THOMAS	TO89	SPORTSMAN	2859.0	985.9	1ST, BPTS.
	STACEEL	RICH	TPG	SPORTSMAN		965.5	2ND, SPTS
	VAN GUNDY	DON	TPG	SPORTSMAN	2954,0		3PD, SPT8
	CHILD	MARK	ED9F	SPORTSMAN		983.5	
	HENDRY	STEVE	HSS	EXPERT	2845.0	982.1	
	TEACE	MARK	P83	EXPERT	2643.0	961.4	
	EDBERG	DON	DUST	EXPERT	2640.0	980.4	
	JOY	BRYAN	HBS	SPORTSMAN	2840.0	980.4	
19	ANDERSON	GARY	TPG	EXPERT	2634.0	958.4	
20	JOY	GEORGE	HSS	EXPERT	2813.0	951.3	
21	FINKENBINER	KEITH	NCC	EXPERT	2911,0	950,6	
	MARTIN DEDMANE	TONY	HSS	EXPERT	2795.0	945.2	
	GERMANE	BRIAN	HSS	SPORTSMAN	2775.0	938.5	
	VALDES Lagarre	AARON RICHARD	TPG NCC	SPORTSMAN SPORTSMAN		933.0	
	VICKERS	DON				932.0	
	SHELBY	BICH	ISS	EXPERT	2754.0	931.3	
	PETTEN	MICHAEL	186	SPORTSMAN	2743.0 2742.0	927.6 927.3	
	LACKEY	ACGER	HSS	EXPERT	2737.0	925.6	
	WAGER	MARVIN	TPG	ISPORTSMAN	2737.0	925.6	
	CHASTELER	TOM	HSS	EXPERT	2724.0	921.2	
	MAZUR	FRANK	NCC	SPORTSMAN	2716.0	918.5	
	HUNTER	JOHN	NCC	EXPERT	2715.0	918.2	
	HALL	DAVID	DUST	SPORTSMAN	2091.0	910.0	
	BILLMAN	TODD	193	EXPERT	2682.0	907.0	
	CHASTELER	FRANK	HS9	EXPERT	2681.0	906.7	
37	RODRIGUEZ	JOE	ISS	SPORTSMAN	2674.0	904.3	
38	BANDRONE	HUGO	DUST	EXPERT	2642.0	693.5	
39	BONANNO	TONY	SULA	EXPERT	2614.0	884.0	
40	ZINK	DON	HSS	EXPERT	2502.0	876.6	
41	WILSON	DAN	ED8F	<b>BPORTSMAN</b>	2564,0	967.1	
42	VALDE8	AL.	TPG	SPORTSMAN	2540.0	659.0	
	SPITZER	GEORGE	PSS	SPORTSMAN	2515.0	850.5	
44	LARSEN	ORLA	DUST	EXPERT	<b>2512.0</b>	849.5	$\overline{}$
45	WEISMAN	EDGAR	TOSS	EXPERT	2508.0	848.2	
	FINK	STEVEN	DUST	SPORTSMAN	2495.0	844.1	
	RICHARDSON	PETE	нээ	EXPERT	2494.0	843.4	
48	GUSTIN	RONALD	DUST	EXPERT	2465.0	833.6	
	BUTOVICH	DAVIO	P93	SPORTSMAN	2432.0	822.5	
	DOKE	AL.	NCC	EXPERT	2422.0	819.1	
	POULSEN	GORDON	HSS	EXPERT	2413.0	816.0	
25	HIGGINBOTHA		188	EXPERT	2385.0	808.6	
53	DANRICH	DAN	HSS	SPORTSMAN	2289.0	774.1	
	NEXI RING	CUAT	HSS	SPORTSMAN	2280.0	771.1	
	КИТСН	NORM	H89	EXPERT	2274.0	769.0	-
	CRON	AL.	H8S	EXPERT	2271.0	768.0	
57	CONWAY	ACSS	HSS TPG	EXPERT	2271.0	788.01	
50	PUCHALSIO"	PATRICK	SULA	SPORTSMAN	2234.0	758.5	
	KEIL	MARK	NCC	EXPERT	2230,0 2157.0	764.1	
	GRAHAM	HUGH	SWSA	SPORTSMAN SPORTSMAN	2145.0	729.51 725.4	
	STAFFORD	IAV	NCC	EXPERT	2142.0	724.4	1
	MERENDA	KEN	DUST	SPORTSMAN	2127.0	719.3	
	FINK	DAN	SULA	EXPERT	2109.0	713.2	
	TILLMAN	NORM	NCC	EXPERT	1957.0	001.8	
	LANDERS	AL T	DUST -	SPORTSMAN	1935.0	854.4	-
	SNEDEN	TOM	TPG	SPORTSMAN	1878.0		
	SHERMAN	MORT	NCC	SPORTSMAN	1863.0	635.1	
- 00	MILLS	ARCHIE	BULA	SPORTSMAN	1821.0	630,0 615,8	
	BUZOUCH	NICK	HSS	SPORTSMAN	1734.0	586.4	
	PARSONS	JiM	H8S	SPORTSMAN	1303.0	440.6	
	WILSON	DENNIS	ED9F	SPORTSMAN			
7-1							

\*DON VAN GUNDY MOVES TO EXPERT

#### TEAM SCORES

NCC 15	H98 19	TPG 9	DUST 6	188 5
983.9	995.6	972.9	1000,0	927.6
990.2	9621	986.5	960.4	927.3
968.5	960.4	965.2	910.0	907.0
984.4	951.3	958.4	893.5	904.3
3957.0	··· 5669.4	3863.0	: 500 S763.9	3006.2
SULA 5	TOSS 5	P88 3	EDSF 5	SWSA
931.3	986.1	251,4	963.5	725.4
884.0	965.9	850.5	867.1	
754.1	848.2	822.5	364.2	
713.2				

#### SOUTHERN CALIFORNIA SOARING CLUBS YEAR-TO-DATE STANDINGS AS OF JULY, 1991 (BEST 5 OF 8 SCORES)

PLACE	NAW.	Ë	CLASS	CLUB	SCORE ICON	hiefelije:
٠1	ATWELL	BLAIR	EXPERT	DUST	4981.9	. 5
	CLERX	DON	EXPERT	DUST	4914.0	т.В
	REAGAN	MIKE	EXPERT	H88 TO93	4910,0 4905.1	5
	BLEDSOE	RICH	EXPERT	TPG	4743.3	5
		FRANK	EXPERT	H88_	4734.6	5
	LACKEY	ROGER	EXPERT EXPERT	P8S HSS	4898,8 4841.1	5
	TILLMAN	NORM	EXPERT	NCC	4630.1	5
	MARTIN	TONY	EXPERT	HSS	4571.8	5
11		GARY EDGAR	EXPERT	TOSS	4542.6	5
13		DON	SPORTSMAN	TPG	4533.0 4529.91	5 5
14	VICKER8	DON	EXPERT	SULA	4524.9	5
	JOY FINK	GEORGE	EXPERT	HSS	4521.8	5
	SHELBY	STEVEN RICH	SPORTSMAN EXPERT	DUST	4503.2 4461.3	5
	JOY	BRYAN	SPORTSMAN	HSS	4410.9	<u>5</u>
	THOMAS	ROSS	EXPERT	HSS_	4406.0	5
	KEIL DOUGLAS	DAYID IAN	SPORTSMAN EXPERT	NCC SWSA	4285.1 4283.9	
22	BUTOVICH	DAVID	SPORTSMAN	P38	4220.6	
	SPITZER	GEORGE	SPORTSMAN	P89	4197.5	5
	MORAN	MYLES	EXPERT	TOSS	4146.8	5
	PARSONS	NOAM JIM	SPORTSMAN	H68 H69	4142.1	<u>5</u>
27	CRON	AL	EXPERT	H98	4096.3	5
26	WAGER	MARVIN	8PORTSMAN	TPG	4092,8	. 5
30		MICHAEL RICH	SPORTSMAN	TPG	4026.9 3918.6	5
31	AKERS	THOMAS	8PORTSMAN	YOSS	3885.0	
	LONG	DICK	SPORTSMAN	DUST	3773.4	5
	SAGE HODRIGUEZ	FRED JOE	EXPERT SPORTSMAN	NCC	3744.6	- 4
	CHASTAIN	BLAYNE	EXPERT	P8S	3743.6 3698,3	4
	GERBIN Jr	ROBERT	EXPERT	HSS	3692.0	4
37	HENDRY	STEVE	EXPERT	H88	3645.8	4
	RATNER MILLS	ARCHIE	EXPERT SPORTSMAN	PSS SULA	3625,9	- 4
40	RAYMOND	KEN	EXPERT	NCC	3594.7	
	OERMANE	BRIAN	8PORTSMAN	H88	3540,4	4
42	SANDRONI	HUGO AL	EXPERT EXPERT	DUST NCC	3526.1 3483,5	5
44		MARK	SPORTSMAN	EDSF	3476.8	1
45		DON	EXPERT	H88	3385.6	. 5
	CHASTELER	MATT YOM	EXPERT	H8S HSS	3379.3	4
	FINK	DAN	EXPERT	SULA	3291.0	_4
	CONWAY	PATRICK	SPORTBMAN	TPG	3147.7	4
50	NEHRING	CURT	SPORTSMAN	H88	3099.7	5
52	MATSUMOTO	JOE BEN	EXPERT	P88 P88	2963.4	3
53	PERKINS	DARYL	EXPERT	P88	2910.9	3
	SLIFF	BOB	EXPERT	HSS.	2679.2	3
	BPENCER .	RANDY	EXPERT	BULA	2804.1 2781.3	4
	MEIENBERG	KEN	EXPERT	NCC	2747.0	
58	JOLLY	LARRY	EXPERT	SULA	2725.8	3
59	PITTER	CHRIS	EXPERT SPORTSMAN	SULA DURT	2679.8	- 3
	FINKENBINER	KEITH	EXPERT	NCC	2651.5 2647.6	3
62	CONDON	STEVE	SPORTSMAN	TPG	2646.0	3
63	MONAMEE JENKINS	ART	EXPERT	TOSS	2644.1	3
65	LARSEN	HARVEY ORLA	EXPERT	DUST	2602.5	
68	OLSEN	ROBIN	EXPERT	SWSA	2575.5	3
	YOUNG	BRETT	SPORTSMAN	HSS	2564,2	4
	HALL BCHNEIDER	BIEVE	SPORTSMAN SPORTSMAN	DUST TPG	2539.7 2414.1	3
70	HIGGINBOTHAM		EXPERT	155	2413.2	- 3
71	RITTER	GEORGE	EXPERT	DUST	2379,2	3
	OLSEN RICHAROSON	PETE	EXPERT EXPERT	SWSA HSS	2336.8	- 3
	PUCHALSKI	MARX	EXPERT	BULA	2332.2	3
75	FRAZEE	BART	SPORTSMAN	EDSF	2262.9	3
	GERSIN	ROBERT	EXPERT	HSS	2228.0	3
	STAIRS MERENDA	PETER KEN	SPORTSMAN	TOSS DUST	2125,5 2110.6	
	LUEKEN	JIM	EXPERT	NCC .	1983.8	2
BQ	CLARK	DEAN	EXPERT	NCC	1942.4	2
	NIGG 9ROOKS	NOEL	SPORTSMAN	PSS	1940.6	2
	WARNER	GARTH	EXPERT	NCC	1932.2	3
84	VALDES	AARON	SPORTSMAN	TPG	1898.7	2
	VAN GUNDY	SÚE	SPORTSMAN	TPG	1845.6	3
	NORENBERG	LOWELL	SPORTSMAN SPORTSMAN	SFVF	1840.4	2
68	GARNER	RICH	EXPERT	HS8	1801.8	
89	FARLESS	CIVAG	EXPERT	P89	1789.9	2
	CRANFORD HALLFORD	KARL		DUST	1785.8	2
	HOLLEY	MARY	SPORTSMAN EXPERT	P89 SW8A	1770.3	2

PLACE	NA	ME	JCLASS	CLUB	SCORE	CONTESTS
	BILLMAN	TODO	EXPERT	188	1757.3	2
94 07	GUSTIN MacKENZE	RONALD	EXPERT	DUST SEVE	1753.7	2
96	GOODWIN	BROWNE	SPORTSMAN	MACS	1697.1	2
97	McCOLGAN	DON	SPORTSMAN	SWSA	1634.3	2
98	CHASTAIN	ROGER	6PORTSMAN	P88	1596.8	2
1 100	SADORF FOSTER	STAN	SPORTSMAN	199	1580,3	2
	MENA	NITTIWN _	SPORTSMAN	MRCS DUST	1538.6 1533.5	2
	DANRICH	DAN	SPORTSMAN	HSS	1517,3	2
	SMITH	STEVE	SPORTSMAN	DUST	1458.9	2
	LAUGHUN	SEAN .	SPORTSMAN	EDSF	1450.5	. 2
	WILSON AVESON	DAN	SPORTSMAN	EDSF	1412.3	2
	ANDREWS	POBERT	SPORTSMAN	SWSA	1395.8	2
	LEAL	MIKE	SPORTSMAN	TOSS	1369.2	2
	GORDON	ALAN .	SPORTSMAN	DUST	1345.9	2
	CROOK	JIM	SPORTSMAN	188	1279.0	3
	POWELL KARP	BILL	SPORTSMAN SPORTSMAN	MACS	1266,9	2
	GRISANTI	PAUL	SPORTSMAN	MRCS	1263.8 1163.3	2
114	FAULKENHAM		SPORTSMAN	188	1121.5	- ž
	JULIEN	HERBERT	SPORTSMAN	MHCS	1076.4	2
	BURNS	BILL RICHARO	EXPERT	TOSS	982.3	1
	TIMBS	NORM	EXPERT	P88 NONE	977,8 970,6	
	NORTHERN	DON	EXPERT	TOSS	968.6	
120	BRANDT	DENNIS	EXPERT	H83	962.3	1
	SWET	BOB	SPORTSMAN	TOSS	952.5	1
	STOKER	PAT	SPORTSMAN EXPERT	EULA BULA	939.0	. 1
	HARRIS	PHIL	EXPERT	HSS	938.6 935.6	1
125	LIBARRE	RICHARD	SPORTSMAN	NCC	932.0	1
126	WILKENS	DAVE	SPORTSMAN	188	926.7	1
127	ADDIS	STEVE	EXPERT	BULA	925.7	1
	MAZUR HUNTER	JOHN JOHN	ISPORTSMAN	NCC	918.5	1
	BUKSHPAN	ROBERT	EXPERT ISPORTSMAN	NCC PSS	918,2 901.6	1
	MORENO	MARC	SPORTSMAN	188	889.1	- 1
	ОТНОМ	MIKE	SPORTSMAN	188	860.4	1
133	ADOCK	KEN	SPORTSMAN	168	871.0	1
	KOPLAN	JEARY TERRY	SPORTSMAN	199	869.4	_1
	VALDES	AL	EXPERT SPORTSMAN	TOSS TPG	568.3 559.0	1
	NEMECEK	DAVE	EXPERT	HSS	857.0	Ť
	STARK	TONI	EXPERT	P88	849.2	1
139	TROUT	CRAKG	SPORTSMAN	NONE	840.2	1
141	ANDERSON	BOB	SPORTSMAN SPORTSMAN	TPG P8S	635.2	1
142	ABATO	GARY	SPORTSMAN	8FVF	823.3	1
143	SILVA	MANNY	SPORTSMAN	198	817.9	1
	SKORT		EXPERT	8ULA	809.6	
	DEYUN RAGANS		SPORTSMAN SPORTSMAN	PB3 EQSF	606.2	1
	GLASS	ROBERT	SPORTSMAN	PSS	803.7 797.5	1
148	SLOBOO	ED	SPORTSMAN	8FVF	792.4	- ;
149	MERRIFIELD	HAP	SPORTSMAN	TPG	783.4	1
	BARNHART	JIM	SPORTSMAN	E08F	781.2	1
	ROKOLY GABRIEL	CHRIS PINA	SPORTSMAN	189	772.3	1
	AVESON	BRUCE	SPORTSMAN	P8S SWSA	768.0 760.0	1
	KLATSKIN		SPORTSMAN	BULA	744.0	1
155	CONDON	SCOTT	SPORTSMAN	TPG.	743.0	1
156	MORTON		SPORTSMAN	MACS	739.0	
	PEETERS GRAHAM	HUGH	SPORTSMAN	EDSF SWSA	731.6 725.4	1
	STAFFORD	IRV	EXPERT	NCC	724.A	1:
	HUSMANN	CHRIS	SPORTSMAN	BULA	714.5	1
161	CALLAHAN		SPORTSMAN	BULA	703.8	1
	HATCH PAUDED &	JOEY	EXPERT	DUST	698,7	
	BAUDER Jr. BITZBERGER	NOHW KEVIN	EXPERT	ISS	668.2	
	LANDERS	AL.	BPORTSMAN	Taud	654.5 654.4	1
	SNEDEN	TOM	SPORTSMAN	TPG	635.1	1
167	SHERMAN	MORT	SPORTSMAN	NCC	630.0	1
	STEVENS	MRITISAN.	EXPERT	BULA	624.4	1
	WALDER	WILLIAM JEFF	SPORTSMAN SPORTSMAN	P68 E09F	820.3	1
	NAVE	JOACHIM	SPORTSMAN	SFVF	617.0 597.8	
172	CONDON	DAYID	SPORTSMAN	TPG	595.1	1
	BUZOLICH	NICK	8PORTSMAN	H88	586.4	2
	DAVISON	PAUL	SPORTSMAN	DUST	574.6	1
	SOWELL QUAYLE	JACK JACK	SPORTSMAN	ED8F	563.7	1
	MORRIS	MILTON	8PORTSMAN	SFVF	549.8 520.0	1
	LOVELL	CORY	SPORTSMAN	TPG	503.2	<u>-</u>
170	SIMMER	ROBERT	SPORTSMAN	TPG	501.5	1
	JOHNSON	OC MAN	SPORTSMAN	EDSF	452.3	1
	WILBON	DENNIS	SPORTSMAN SPORTSMAN	EDSF SULA	364.2	1
	CHAMBERLIN		SPORTSMAN	HSS	291.8 0.0	1 1
	DeANGEUS		8PORTSMAN	MRCS	0.0	

#### TEAM STANDINGS

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	TACE		POINTS	PLACE	CLUB	POINTS
		HSS	23457.8	7	SULA	16841.7
	2	TPG	21643.0	0	153	162900
•	3	PSS	214901		SWSA:	14844.2
•	4	TQ88	21063.5	10	EDSF	111941
[	- 5	NCC	20415.0	11	SFV8F.	7903.5
- [	- 6	DUST	10441.2	12	MACSS	5908.4

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