



**THE OLDEST CHARTERED  
SOARING CLUB  
IN THE  
A.M.A.**



**CHARTER # 128**

## **MAY MEETING**

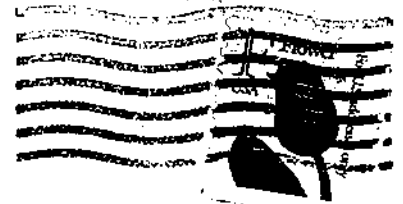
**THE MAY MEETING WILL BE  
HELD ON WEDNESDAY, MAY 1,  
1991 AT 7:30 P.M.**

**LOCATION: CLUBHOUSE AT  
LAKES AT SEABRIDGE CON-  
DOS. SEE MAP AND INSTRU-  
CTIONS INSIDE.**

**EITHER GEORGE SPARR FROM  
AEROSPACE COMPOSITES WILL  
PRESENT A TALK OR A VIDEO  
ON VACUUM BAGGING WILL BE  
SHOWN.**



**P.O. Box 1673  
Costa Mesa, CA 92626**



**FIRST CLASS MAIL**

**WILL CONRAD  
9359 SHRIKE AVE  
FOUNTAIN VALLEY, CA 92708**

MAY 1991



**(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) 249-3168
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. Ed Resetar discussed the California Slope Racers contest dates. Keith McLellan discussed the possibility of the Club sponsoring a slope race. A frequency survey was distributed. Bob Sliff discussed the Astro Flight Challenge and the need for volunteers. Jim Parsons discussed the FairviwPark cleanup to be held April 27 from 8:00 - 5:00. The need for a good turnout was presented. The meeting was adjourned at 9:05 P.M.

John Ostrowski, Acting Secretary

**PRESIDENT'S COLUMN**

Amazing as it seems, the Prez was struck speechless this month!

**Club Minutes**

The meeting was called to order at 7:43 P.M. by Vice President Jim Parsons. Minutes of the March meeting were accepted as published. There were no new guests. Frank Chasteler gave the Treasurer's report: the Club began March with a balance of \$1,046.25 in the checking account and ended with a balance of \$1,107.05.

Frank reported on the contest for April. He also read the club rules for contest flying. A lengthy discussion followed. A motion was made to amend the contest rules to allow a pilot involved in a mid-air 60 sec. to decide if he wanted a reflight. The motion was defeated. Another motion was made to revise the rules to state that any collision other than on launch must be flown out with no relaunch. The motion passed. A motion was made to accept the contest rules. The motion passed.

**OLD BUSINESS**

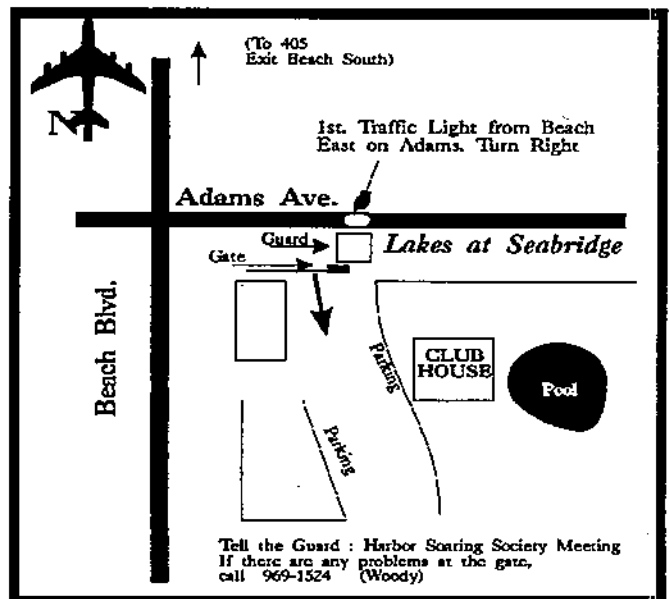
A discussion of the newsletter name was held. No action was taken on a new name. Suggestions are still sought.

**NEW BUSINESS**

A report on the March SC<sup>2</sup> was made. Frank Chasteler announced that workers at the Lee Renaud Memorial will be entered in a raffle for Airtronics equipment. The name or names of the winners will be drawn at the December

**MEETING LOCATION**

For the May meeting, we will be meeting at the clubhouse at the Lakes at Seabridge condominiums. 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. See the map below for directions. A big THANKS to Woody Grosvenor for the meeting place!





## LAUNCHING TECHNIQUES - PART 2

Ben Clerx, Contest Coordinator

(Editor's note: Last month, Ben's column covered basic launching techniques, this month the focus is on the more sophisticated zoom launch)

Zoom launches require special pilot skills and special planes and the beginner should avoid imitating such launches until he has both (unless one enjoys testing the impact resistance of wingless fuselages zooming into the ground). A zoom is initiated as the plane approaches the top of the launch by increasing line tension (standing on the winch), pushing over into a vertical dive for 50 - 100 ft., then *zooming* up into a 60 degree climb and leveling out at an altitude higher than when the zoom was initiated. The object is to gain as much speed while losing as little altitude as possible during the dive (winch energy imparted to the plane will be in the form of kinetic energy [*speed*], then zoomed up into potential energy [*altitude*]). Clearly, zoom launches put a great deal of stress on planes and require split-second timing.

If done improperly, at best you'll wind up with less altitude than if you hadn't attempted a zoom. A zoom will only work with an aerodynamically clean plane with a medium to high wing loading (over 9 oz./ft.<sup>2</sup>) and strong wings. Most aileron equipped planes fall into this category while most polyhedral ships do not. The reason is that zooms require several energy transfers involving high airspeeds. Double your airspeed and you have four times the drag. A *draggy* Paragon, though an excellent flier, would lose most of the winch energy due to drag before ever pulling up into a zoom (providing the wings stay attached). Tony Martin's little white missile zooms great since it maintains its momentum. Watch him launch when you get a chance, as well as pilots flying F3B ships like Don Edburg.

Again, don't hesitate to ask for help at the flying field. Everyone is willing to help if asked.

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## TECH TALK - HINGES

by Tony Martin

To minimize slop and binding in your model's control surfaces, it is important to position your control horns properly. The following describes how you should position your control horns.

**MAY CONTEST**

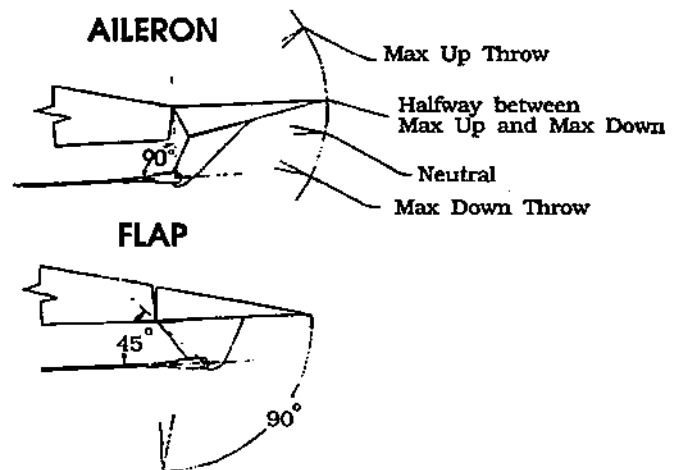
Ben Clerx, C.D.

Date: May 5, 1991  
 Format: 7 - 5 - 3 minute choice  
 A runway landing will be used.

Schedule: Pilots meeting at 8:45 A.M..  
 First round at 9:00 A.M.  
 Rounds will be staggered (same as March contest)  
 Two-meter will fly first.  
 Open rounds will be 45 min. Two meter rounds will be 30 min.

**NOTE: ALL radios must have gold stickers**

The angle between the pushrod and a line drawn from the clevis attachment point to the hinge point should be 90 degrees when the control surface is halfway between its expected extreme throws. This halfway position is usually NOT the neutral position except in special cases such as the rudder and perhaps the elevator where the throw in both directions is equal. In the case of flaps and ailerons, the halfway position is almost always NOT the neutral position since ailerons usually have more up than down travel as a result of differential and crow, and flaps usually travel





between neutral and as much as 90 degrees drop.

For example, if you want your flaps to deflect between neutral and a maximum drop of 90 degrees, the halfway position will be a 45 degree drop, and the horn at neutral will be as shown below.

The above should be considered a rule of thumb rather than a precision formula and generally you can position your control horns adequately by simply *eyeballing* it.

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### PILOT OF THE MONTH

The Pilot of the Month is a man who never seems to fly his own airplane - because he's always helping someone else:



Morry Smith

Occupation: Retired from self-employment associated with Rolls Royce Dealers, Orange and San Diego Counties and Rolls Royce America.

Started flying sailplanes: February, 1978, with the help of Frank Chasteler.

Reason for interest: Interest in aviation began about age 3. first job out of high school was working on Super Cyclone model engines. Worked at Lockheed on the P-38. Flew for the Navy in WWII.

First sailplane: Soarcraft Centurion.

Most satisfaction in the sport: Building, flying and helping new people find the enjoyment and thrill of flying their own creations.

Goal for 1991: Still working on LSF Level IV.

Current Gliders: A Cumic+ and Sagitta 600. Trying to complete repairs on second Cumic+ and finish a flying wing. Near future: Airtronics Legend.

Advice for beginning pilots: Get all the information you can from experienced fliers, starting with 1st. kit recommendation, followed by help in learning to fly. It's great!

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### SWAP SHOP

Futaba G-series transmitter modified with "Mixmaster" analog mixer board, originally developed for the Synergy II. this transmitter performs nearly all the functions of an Airtronics Vision radio (crow, camber, aileron-> flap mixing, elevator-> camber mixing, launch preset) at a FRACTION of the price. The transmitter will work with any Futaba PPM receivers or compatibles (such as the Platinum, etc.). This is a good way to get all of the functions of the expensive computer radios at a low cost, ESPECIALLY if you already own a G-series set. Price: \$125 - transmitter and documentation. \$200 - transmitter & two modules on six meters (53.4 MHz & 00, sold to Hams only). Contact Don Edberg, (714) 552-1812. Evenings and weekends.

Quattro F3B with wood veneer skin, carbon fiber span & joiner, glass fuselage. Good condition (used to belong to 1991 Team member Larry Jolly). \$450 (new ones cost over \$750). Contact Don Edberg. (714) 552-1812. Evenings and weekends.

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

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.

## 1991 CONTEST SCHEDULE - Ben Clerx Contest Coordinator

DATE	CONTEST
May 5	HSS Club Contest
May 19	SC <sup>2</sup> Desert Union of Sailplane Thermalists
May 25 & 26	HSS Astro Flight Championships
June 9	HSS Club Contest
June 23	Electric/Sailplane Team Contest
June 30	SC <sup>2</sup> Soaring Union of Los Angeles
July 7	HSS Club Contest
July 12 - 21	AMA Nationals (Lawrenceville, IL)
July 28	SC <sup>2</sup> North County Clouds
August 11	HSS Club Contest
August 16-17	F3E Team Selection (Bid by HSS) (18th. makeup)
August 18	SC <sup>2</sup> Pasadena Soaring Society
September 8	HSS Club Contest
September 29	SC <sup>2</sup> Harbor Soaring Society
October 5-6	CVRC SoaringFest (Visalia)
October 13	HSS Club Contest
October 27	SC <sup>2</sup> Silent Wings Soaring Association
November 10	HSS Club Contest
November 24	SC <sup>2</sup> Harbor Soaring Society Lee Renaud Memorial
December 8	HSS Club Contest



## 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 1 & 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.



### FREQUENCY SURVEY

The results of the frequency survey are presented below. These results are not comprehensive since not all members of the club participated. Results are based on about 45% of the membership.

Channel	Number	Channel	Number	Channel	Number
01	0	20	5	39	0
02	1	21	0	40	4
03	0	22	3	41	0
04	1	23	0	42	3
05	0	24	2	43	1
06	1	25	0	44	3
07	0	26	1	45	1
08	1	27	2	46	1
09	0	28	5	47	0
10	0	29	1	48	1
11	0	30	7	49	0
12	1	31	0	50	4
13	0	32	4	51	0
14	4	33	1	52	3
15	2	34	3	53	0
16	5	35	2	54	1
17	0	36	0	55	0
18	5	37	0	56	5
19	0	38	4		

Next round I think I'll try levitation!



HSS APRIL CONTEST – OPEN DIVISION

	NAME		CLASS	TOTAL POINTS	NORMALIZED SCORE	TROPHY
1	ATWELL	BLAIR	GUEST	2918		1ST EXP.
2	POULSEN	GORDON	EXPERT	2898	1000.0	2ND EXP.
3	MARTIN	TONY	EXPERT	2878	992.4	3RD EXP.
4	GERBIN	BOB	EXPERT	2835	978.3	
5	RENAUD	TIM	EXPERT	2821	973.4	
6	JOY	GEORGE	EXPERT	2781	959.6	
7	SLIFF	BOB	EXPERT	2774	957.2	
8	ZINK	DON	EXPERT	2732	942.7	
9	CHASTELER	FRANK	EXPERT	2701	932.0	
10	HENDRY	STEVE	ADVANCED	2631	907.9	1ST ADV.
11	KUTCH	NORM	EXPERT	2589	893.4	
12	LACKEY	ROGER*	ADVANCED	2586	892.3	2ND ADV.
13	FINK	STEVE	EXPERT	2571	887.2	
14	GERBIN	ROBERT Jr	EXPERT	2567	885.8	
15	DANRICH	DAN	ADVANCE	2528	872.3	
16	THACKER	BOB	GUEST	2520		
17	THOMAS	ROSS	EXPERT	2511	868.5	
18	SMITH	MORRY	EXPERT	2504	864.0	
19	GATES	MATTHEW*	ADVANCED	2498	862.0	1ST SPTS.
20	NEMECEK	DAVID	EXPERT	2389	824.4	
21	COLLETT	MATT	SPORTSMAN	2347	809.9	2ND SPTS.
22	CRON	AL	EXPERT	2329	803.7	
23	YOUNG	BRETT	SPORTSMAN	2306	795.7	
24	PANTZAR	DICK	EXPERT	2284	788.1	
25	WHITE	LARRY	EXPERT	2281	787.1	
26	JOY	BRYAN	SPORTSMAN	2249	776.1	
27	GERMANE	BRIAN	ADVANCED	2225	767.8	
28	RICHARDSON	PETE	EXPERT	2201	759.5	
29	NEHRING	CURT	SPORTSMAN	2059	710.5	
30	RITSCHKE	GORDON	EXPERT	2034	701.9	
31	PARSONS	JIM	SPORTSMAN	2004	691.5	
32	MILLS	ARCHIE	SPORTSMAN	1997	689.1	
33	GROSVENOR	WOODY	SPORTSMAN	1833	583.5	
34	GARNER	RICH	EXPERT	1624	560.4	
35	BUZOLICH	NICK	SPORTSMAN	1442	497.6	

\*Matt Gates moves to ADVANCED  
\*Roger Lackey moves to ADVANCED

HSS APRIL CONTEST – TWO METER

	NAME		TOTAL POINTS	NORMALIZED SCORE	TROPHY
1	KUTCH	NORM	2747	1000.0	1ST.
2	RICHARDSON	PETE	2704	984.3	2ND.
3	FINK	STEVE	2642	961.8	3RD.
4	SLIFF	BOB	2628	956.7	
5	JOY	GEORGE	2608	949.4	
6	MARTIN	TONY	2595	944.7	
7	JOY	BRYAN	2522	918.1	
8	WHITE	LARRY	2400	873.7	
9	THOMAS	ROSS	2306	839.5	
10	BUZOLICH	NICK	2292	834.4	
11	ANKENBAUER	STEVE	2011	732.1	
12	NEHRING	CURT	1988	723.7	
13	MILLS	ARCHIE	1580	575.2	

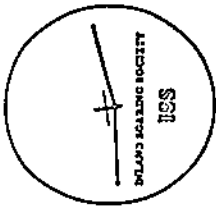
YEAR-TO-DATE OPEN CLASS

PLACE	NAME		CLASS	SCORE	CONTESTS
1	CHASTELER	FRANK	EXPERT	3870.7	4
2	GERBIN	ROBERT Jr	EXPERT	3800.1	4
3	GERBIN	BOB	EXPERT	3741.5	4
4	ZINK	DON	EXPERT	3725.8	4
5	KUTCH	NORM	EXPERT	3685.7	4
6	GATES	MATTHEW	ADVANCED	3600.6	4
7	FINK	STEVE	EXPERT	3500.2	4
8	WHITE	LARRY	EXPERT	3484.0	4
9	LACKEY	ROGER	ADVANCED	3468.7	4
10	SMITH	MORRY	EXPERT	3444.9	4
11	RICHARDSON	PETE	EXPERT	3434.9	4
12	NEMECEK	DAVID	EXPERT	3405.5	4
13	PANTZAR	DICK	EXPERT	3375.4	4
14	THOMAS	ROSS	EXPERT	3365.6	4
15	CRON	AL	EXPERT	3352.6	4
18	YOUNG	BRETT	SPORTSMAN	3298.9	4
17	NEHRING	CURT	SPORTSMAN	3212.9	4
18	JOY	BRYAN	SPORTSMAN	3193.7	4
19	RITSCHKE	GORDON	EXPERT	3150.9	4
20	MARTIN	TONY	EXPERT	2991.1	3
21	RENAUD	TIM	EXPERT	2892.4	3
22	JOY	GEORGE	EXPERT	2856.9	3
23	LUPPERGER	JOHN	EXPERT	2770.7	3
24	RESETAH	EDWARD	SPORTSMAN	2714.8	3
25	DANRICH	DAN	ADVANCE	2713.4	3
26	GERMANE	BRIAN	ADVANCED	2661.5	3
27	HENDRY	STEVE	ADVANCED	2644.1	3
28	SLIFF	BOB	EXPERT	2625.0	3
29	GARNER	RICH	EXPERT	2510.7	3
30	BOESE	JIM	SPORTSMAN	2338.3	3
31	LAIR	DAN	SPORTSMAN	2322.9	3
32	PARSONS	JIM	SPORTSMAN	2180.6	3
33	BUZOLICH	NICK	SPORTSMAN	1994.1	3
34	EDBERG	DON	EXPERT	1992.5	2
35	LONG	DICK	ADVANCE	1902.3	3
36	POULSEN	GORDON	EXPERT	1889.9	2
37	STALLS	JARED	EXPERT	1848.1	2
38	SANDRONI	HUGO	ADVANCE	1827.4	2
39	SCHOFRO	STEVE	SPORTSMAN	1753.5	2
40	CHAMBERLIN	RALPH	SPORTSMAN	1664.8	2
41	MILLS	ARCHIE	SPORTSMAN	1626.0	2
42	COLLETT	MATT	SPORTSMAN	1608.6	2
43	GIBBS	DJANE	ADVANCE	1563.3	2
44	VON GROTE	BRAD	SPORTSMAN	1317.9	2
45	STOKER	PAT	EXPERT	992.2	1
46	CLERX	BEN	EXPERT	956.3	1
47	McLELLAN	KEITH	SPORTSMAN	844.3	1
48	STOVALL	LEE	SPORTSMAN	915.5	1
49	HARRIS	PHIL	EXPERT	882.5	1
50	DUNCAN	BILL	SPORTSMAN	808.6	1
51	CONRAD	WILL	ADVANCE	789.6	1
52	STOVALL	WILL	SPORTSMAN	705.5	1
53	HARVEY	TIM	SPORTSMAN	677.0	1
54	GROSVENOR	WOODY	SPORTSMAN	583.5	1

YEAR-TO-DATE TWO-METER

PLACE	NAME		SCORE	CONTESTS
1	RICHARDSON	PETE	3847.4	4
2	KUTCH	NORM	3814.6	4
3	FINK	STEVE	3807.6	4
4	THOMAS	ROSS	3596.4	4
5	WHITE	LARRY	3548	4
6	JOY	BRYAN	3120.3	4
7	NEHRING	CURT	3080.5	4
8	JOY	GEORGE	2908.3	3
9	MARTIN	TONY	2897.6	3
10	SLIFF	BOB	2646.5	3
11	EDBERG	DON	1956.5	2
12	LONG	DICK	1868	3
13	HENDRY	STEVE	1608.1	2
14	CHAMBERLIN	RALPH	1589.5	2
15	BUZOLICH	NICK	1446.7	2
16	LACKEY	ROGER	1365.9	2
17	ANKENBAUER	STEVE	1294.1	2
18	McLELLAN	KEITH	944.2	1
19	HALL	HERMAN	942.1	1
20	DONAT	KURT	855.9	1
21	CONRAD	WILL	842.6	1
22	PARSONS	JIM	821.7	1
23	MILLS	ARCHIE	575.2	1





## 8TH ANNUAL R/C HAND LAUNCHED GLIDER CONTEST

The Inland Soaring Society's 8th Annual R/C Hand Launched glider contest is coming up this June 2. There will be a raffle, and some major prizes, (glue, hand launch plans, kits, even radios), **SO DON'T MISS IT!**

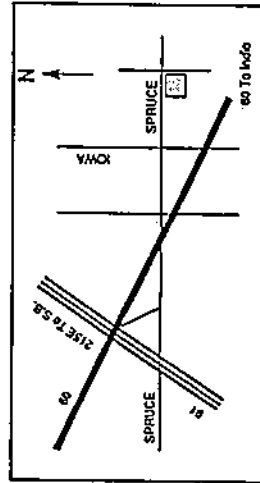
The rules and task will be very simple. Any glider with a projected wing span of sixty inches or less, no matter how many functions will qualify. Anyone may throw your glider for you. Three rounds will be flown. Round One will be a ten minute slot in which each pilot may launch as many times as possible with only your three longest flights counting. The pilot with the highest total time will receive 1000 points and all other scoring will be Man-On-Man. Round Two will be a ten minute slot with unlimited launches to attempt a five minute precision/duration flight. If no one makes five minutes, the pilot with the longest flight will receive 1000 points and all other scoring will be Man-On-Man. Round Three will be a ten minute slot with six launches, best five count with two minute maximum. The pilot with the highest total time will receive 1000 points and all other scoring will be Man-On-Man. In all rounds, flights must end before the slot is over to count, any flight that ends after the slot will be scored a zero.

Entry fee is \$6.00. Registration starts at 8:00 AM, with the pilot's meeting at 9:00 AM sharp. Mark your calendar for June 2, 1991 and make your way to Riverside, California for fun, excitement, and big prizes! For more information - call Ian Douglas (714) 621-2522 after 6:00 PM

**AMA Sanctioned - AMA license required**

June 2, 1991  
University Middle School  
Riverside, California

A ready-to-fly sailplane  
(with radio)  
will be raffled at the field.  
Tickets will be a  
donation of \$2.00 each,  
or 3 for \$5.00.  
You might walk away  
with a brand-new glider!  
See you there!!!



ATTENTION! DATE CHANGE! NEW DATE--25-26 MAY 1991

## ASTRO FLIGHT CHAMPIONSHIPS

THE HARBOR SOARING SOCIETY WOULD LIKE TO INVITE YOU TO THE ...

### 17TH ANNUAL ELECTRIC FLIGHT R/C CHAMPIONSHIPS

The 17th Annual Astro Flight Electric Champs will be held on Saturday and Sunday, May the 25th and 26th, 1991 at Fairview Regional Park, Costa Mesa CA. The events will be 7-cell Sailplane and Old Timer, Un-Limited Sailplane and Old Timer, and 7 Cell Pylon.

SAILPLANE and OLD TIMER rounds one, two and three will be limited motor run with thermal duration and landings, and will be scored man-on-man. The motor run, duration, and landings will be as follows:

<b>ROUND 1</b> ..... 7-Cell Sailplane ..... Unlimited Sailplane ..... Unlimited Old Timer	
Motor run	..... 30 seconds ..... 10 seconds ..... 20 seconds
Duration	..... 3 minutes ..... 3 minutes ..... 3 minutes
Landing	..... 100 points ..... 25 point in/out ..... 100 points ..... 25 point in/out
<b>ROUND 2</b>	
Motor run	..... 40 seconds ..... 50 seconds ..... 20 seconds
Duration	..... 7 minutes ..... 7 minutes ..... 7 minutes
Landing	..... 100 points ..... 25 point in/out ..... 100 points ..... 25 point in/out
<b>ROUND 3</b>	
Motor run	..... 30 seconds ..... 40 seconds ..... 15 seconds ..... 25 seconds
Duration	..... 5 minutes ..... 5 minutes ..... 5 minutes ..... 5 minutes
Landing	..... 100 points ..... 25 point in/out ..... 100 points ..... 25 point in/out
<b>ROUND 4</b>	

Round four will be a 5 minute penalty-duration with the same landings as the previous rounds. Time will start when the model becomes airborne. A second timer will keep track of the motor run which will be subtracted from the total flight time. Motor run is unlimited and at the discretion of the pilot. Scoring will be straight points per second with all classes flying the same task.

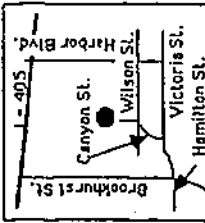
**7 CELL PYLON RACING:** Saturday and Sunday. (ONE HEAT ON SAT// TWO HEATS ON SUN//10 LAPS PER HEAT) (Contestants must have two battery packs for continuous flying on Sunday. You must be ready to fly whenever called.) Course and rules will be per the 1990 AMA rule book. (Additional heats will be flown if time permits)

[ ] YES! I WANT TO ENTER!

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 PHONE# \_\_\_\_\_  
 AMA# \_\_\_\_\_  
 7 CELL SAILPLANE (CH) # \_\_\_\_\_  
 7 CELL OLD TIMER (CH) # \_\_\_\_\_  
 UNLIMITED SAILPLANE (CH) # \_\_\_\_\_  
 UNLIMITED OLD TIMER (CH) # \_\_\_\_\_  
 7 CELL PYLON (CH) # \_\_\_\_\_  
 NUMBER OF ENTRIES # \_\_\_\_\_  
 TOTAL \$ ENCLOSED \$ \_\_\_\_\_  
 PREENTRY REQUESTED--\$2.00 PER EVENT  
 \$6.00 PER EVENT AT THE FIELD  
 SEND ENTRIES TO BOB SLUJER (CD)  
 P.O. BOX 9, MIDWAY CITY, CA 94045  
 (714) 993-5589 // (714) 993-6689 (FAX)

AMA SANCTIONED  
 AMA LICENSE REQD.  
 MAY 25th and 26th, 1991  
 Fairview Regional Park  
 Registration 8:00 AM  
 First Round 9:00 AM

Trophies will be awarded to third place in each class. There will be a pilots/workers drawing for valuable merchandise prizes donated by Astro Flight and several other manufacturers.



### JOIN

The ELECTRIC  
AEROMODELING  
ASSOCIATION



# DUST

The Desert Union of Sailplane Thermalists

Announces it's (SC)2 contest for 1991

**DATE:** Sunday, May 19, 1991

Registration: 08:00 to 09:30

Practice Flying: 08:00 to 09:00

Pilots Meeting: 09:15

First Round Begins: 09:30 OPEN WINCH

Contest Director: Dave Hall 619 320-5814

DUST President: Dave Hall 619 320-5814



All 1991 AMA cards will be checked, all transmitters must be gold stickered.

**LOCATION:** DUST flying field at the Empire Polo grounds, Indio, CA (map on back).

**CONTEST FORMAT: FLIGHT;** Twenty (20) min add-em up, three (3) rounds, with no round over eight (8) minutes.

**LANDING;** Twenty five (25) foot by on hundred (100) inch runway.

**SCORING:** If any round exceeds eight minutes, the contestant will only be credited with eight minutes, and will lose all landing points for that round.

A perfect flight score will be 2,700 pts, with a penalty of -2pts / sec over or under a total flight time of twenty minutes at the end of the third and final round.

Each of the three landings will be worth a maximum of 100 pts each, with a penalty of -2pts / inch, as measured perpendicular from runway centerline to the nose of the aircraft.

**Winches:** DUST club 12V winches, 900+ ft to turnaround.

**Landing Surface:** Mowed Grass.

**Special Rules:** The following AMA competition regulations will be waived;

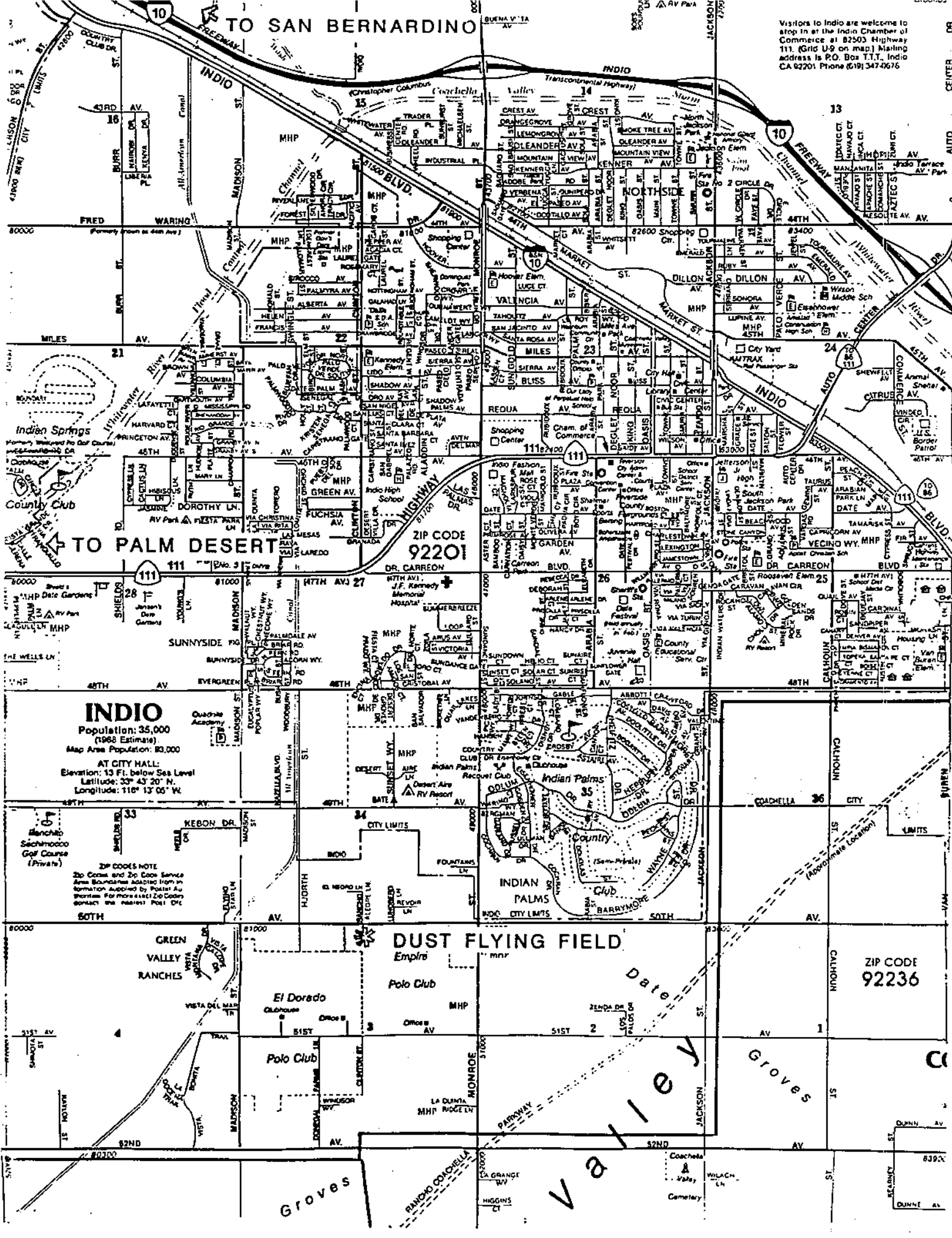
Page 90, 5d. - Two contestants may fly the same model.

Page 90, 7.2, - If a model collides in flight with another model, they are to continue the flight with no relaunch. If the model collides with another model during the landing approach, then either contestant may receive a relaunch to earn landing points. The flight time will be changed based upon the time under or over for a two minute precision flight added to error of time from the flight with collision.

Page 90, 7.2c - If a relaunch is granted due to launching system malfunction, the contestant has ten (10) seconds to accept the relaunch or continue the flight.

Page 91 10.2.2e -Timer may count during the last ten (10) seconds of flight.

**No Zoom Launches**



Visitors to Indio are welcome to stop in at the Indio Chamber of Commerce at 82503 Highway 111. (Grid U-9 on map.) Mailing address is P.O. Box T.T.T., Indio CA 92201. Phone (619) 347-4676

TO SAN BERNARDINO

TO PALM DESERT

ZIP CODE 92201

ZIP CODE 92236

**INDIO**  
 Population: 35,000  
 (1968 Estimate)  
 Map Area Population: 80,000  
 AT CITY HALL:  
 Elevation: 13 Ft. below Sea Level  
 Latitude: 33° 43' 20" N.  
 Longitude: 116° 13' 05" W.

**ZIP CODES NOTE**  
 Zip Codes and Zip Code Service Area Boundaries adapted from information supplied by Postal Authorities. For more exact Zip Codes contact the nearest Post Office.

**DUST FLYING FIELD**  
 Empire Polo Club

**GREEN VALLEY RANCHES**

**El Dorado Clubhouse**

**Polo Club**

**Polo Club**

**LA DUNTA MHP**

**Groves**

**Groves**

**PANCHO COACHELLA**

**Valley**

**Groves**

**LA DUNTA MHP**

**Groves**

SOUTHERN CALIFORNIA SOARING CLUBS  
RESULTS OF TPG (SC)2 CONTEST OF 04/21/91  
CONTEST DIRECTOR - GARY ANDERSON

PL	NAME	CLUB	CLASS	SCORE	NORMAL	TROPHY
1	ATWELL, BLAIR	DUST	EXPERT	2973.0	1000.0	E - 1
2	EDBERG, DON	HSS	EXPERT	2952.0	992.9	E - 2
3	FINK, STEVEN	DUST	SPORTSMAN	2948.0	991.6	E - 3
4	LUEKEN, JIM	NCC	EXPERT	2943.0	989.9	E - 4
5	GERBIN Jr, ROBERT	HSS	EXPERT	2934.0	986.9	E - 5
6	MARTIN, TONY	HSS	EXPERT	2916.0	980.8	
7	CLERX, BEN	HSS	EXPERT	2912.0	979.5	
8	MORAN, MYLES	TOSS	EXPERT	2904.0	976.8	
9	NIGG, DON	SULA	EXPERT	2882.0	969.4	
10	VALDES, AARON	TPG	SPORTSMAN	2871.0	965.7	S - 1
11	CHASTAIN, BLAYNE	PSS	EXPERT	2854.0	960.0	
12	SLIFF, BOB	HSS	EXPERT	2852.0	959.3	
13	JENKINS, HARVEY	ISS	EXPERT	2839.0	954.9	
14	CHASTELER, FRANK	HSS	EXPERT	2830.0	951.9	
15	VICKERS, DON	SULA	EXPERT	2814.0	946.5	
16	LEVOE, MARK	PSS	SPORTSMAN	2778.0	934.4	S - 2
17	DOIG, AL	NCC	EXPERT	2766.0	930.4	
18	GATES, MATT	HSS	EXPERT	2742.0	922.3	
18	SAGE, FRED	NCC	SPORTSMAN	2742.0	922.3	S - 3
20	WARNER, GARTH	NCC	EXPERT	2740.0	921.6	
21	JOY, BRYAN	HSS	SPORTSMAN	2725.0	916.6	
22	RODRIGUEZ, JOE	ISS	SPORTSMAN	2716.0	913.6	
23	DOUGLAS, IAN	SWSA	EXPERT	2714.0	912.9	
4	REAGAN, MIKE	TOSS	EXPERT	2710.0	911.5	
25	MEIENBERG, KEN	NCC	EXPERT	2647.0	890.3	
26	KEIL, DAVID	NCC	SPORTSMAN	2638.0	887.3	
27	LACKEY, ROGER	HSS	SPORTSMAN	2615.0	879.6	
28	JOY, GEORGE	HSS	EXPERT	2607.0	876.9	
29	ANDERSON, GARY	TPG	EXPERT	2588.0	870.5	
30	BLEDSE, RICH	TPG	EXPERT	2554.0	859.1	
30	TILLMAN, NORM	NCC	EXPERT	2554.0	859.1	
32	CONDON, STEVE	TPG	SPORTSMAN	2538.0	853.7	
33	WEISMAN, EDGAR	TOSS	EXPERT	2534.0	852.3	
34	POULSEN, GORDON	HSS	EXPERT	2508.0	843.6	
35	GARNER, RICH	HSS	EXPERT	2492.0	838.2	
35	ANDERSON, BOB	TPG	SPORTSMAN	2492.0	838.2	
37	PETTEN, MICHAEL	ISS	SPORTSMAN	2467.0	829.8	
38	BROOKS, NOEL	PSS	SPORTSMAN	2459.0	827.1	
39	WAGER, MARVIN	TPG	SPORTSMAN	2443.0	821.7	
40	ZINK, DON	HSS	EXPERT	2415.0	812.3	
41	SCHNEIDER, STEVE	TPG	SPORTSMAN	2413.0	811.6	
42	VAN GUNDY, DON	TPG	SPORTSMAN	2404.0	808.6	
43	SHELBY, RICH	ISS	EXPERT	2402.0	807.9	
44	BUTOVICH, DAVID	PSS	SPORTSMAN	2401.0	807.6	
45	STROBEL, RICH	TPG	SPORTSMAN	2379.0	800.2	
46	McNAMEE, ART	TOSS	EXPERT	2378.0	799.9	
47	HENDRY, STEVE	HSS	EXPERT	2367.0	796.2	
48	FINKENBINER, KEITH	NCC	EXPERT	2357.0	792.8	
49	CRON, AL	HSS	EXPERT	2349.0	790.1	
0	RAYMOND, KEN	NCC	EXPERT	2334.0	785.1	
51	MERRIFIELD, HAP	TPG	SPORTSMAN	2329.0	783.4	
52	GERBIN, ROBERT	HSS	EXPERT	2325.0	782.0	
53	CHASTAIN, ROGER	PSS	SPORTSMAN	2318.0	779.7	
54	CONWAY, PATRICK	TPG	SPORTSMAN	2313.0	778.0	
55	GERMANE, BRIAN	HSS	SPORTSMAN	2303.0	774.6	

SOUTHERN CALIFORNIA SOARING CLUBS  
 RESULTS OF TPG (SC)2 CONTEST OF 04/21/91  
 CONTEST DIRECTOR - GARY ANDERSON

PLACE	NAME	CLUB	CLASS	SCORE	NORMAL	TROPHY
56	LONG, DICK	DUST	SPORTSMAN	2299.0	773.3	
57	SPITZER, GEORGE	PSS	SPORTSMAN	2286.0	768.9	
58	OLSEN, ROBIN	SWSA	EXPERT	2283.0	767.9	
59	KUTCH, NORM.	HSS	SPORTSMAN	2215.0	745.0	
60	CONDON, SCOTT	TPG	SPORTSMAN	2209.0	743.0	
61	THOMAS, ROSS	HSS	EXPERT	2131.0	716.8	
62	OLSEN, PETE	SWSA	EXPERT	2122.0	713.8	
63	PUCHALSKI, MARK	SULA	EXPERT	2110.0	709.7	
64	PARSONS, JIM	HSS	SPORTSMAN	2072.0	696.9	
65	AKERS, THOMAS	TOSS	SPORTSMAN	2045.0	687.9	
66	MILLS, ARCHIE	SULA	SPORTSMAN	1996.0	671.4	
67	YOUNG, BRETT	HSS	SPORTSMAN	1850.0	622.3	
68	RICHARDSON, PETE	HSS	EXPERT	1632.0	548.9	
69	LOVELL, CORY	TPG	SPORTSMAN	1496.0	503.2	
70	SIMMER, ROBERT	TPG	SPORTSMAN	1491.0	501.5	
71	NEHRING, CURT	HSS	SPORTSMAN	1311.0	441.0	
72	CROOK, JIM	ISS	SPORTSMAN	72.0	24.2	
73	CHAMBERLIN, RALPH	HSS	SPORTSMAN	0.0	0.0	

Southern California Soaring Clubs  
 RESULTS OF TPG (SC)2 CONTEST OF 04/21/91  
 TEAM SCORES

HSS	24	NCC	9	TPG	14	TOSS	5	PSS	6	ISS	5	SULA	4	DUST	3	SWSA	3	MRCS	0	EDSF	0	SFVF	0
992.9		989.9		965.7		976.8		960.0		954.9		969.4		1000.0		912.9							
986.9		930.4		870.5		911.5		934.4		913.6		946.5		991.6		767.9							
980.8		922.3		859.1		852.3		827.1		829.8		709.7		773.3		713.8							
979.5		921.6		853.7		799.9		807.6		807.9		671.4											
3940.1		3764.2		3549.0		3540.5		3529.1		3506.2		3297.0		2764.9		2394.6		0.0		0.0		0.0	