

T O S S ' n U P



NEWSLETTER

DECEMBER 1991

A.M.A. CHARTERED CLUB #1493

EDITOR: CHUCK GRISWOLD 1646 LA JOLLA DR THOUSAND OAKS, CA. 91362

President:

Edgar Weisman
752 Camino Valles
Thousand Oaks, Ca. 91360
(805) 498-8878

Vice President:

Bob Swet
2600 Ponderosa Dr. # 15
Camarillo, CA 93010
(805) 388 9619

Secretary:

Mike Leal
844 Charles St.
Moorpark, CA 93021
(805) 529 7535

Treasurer:

Chuck Griswold
1646 La Jolla Dr.
Thousand Oaks, Ca. 91362
(805) 495 1409

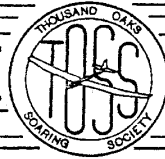
Club Winches:

Art McNamee	(805) 526-6292
Mike Leal	(805) 529-7535
Myles Moran	(818) 882-4687

Code-A-Phone:

Next Contest;	Jan 11th
C/D:	Peter Stairs
Place	Redwood School

Next Meeting:	NO DEC MEETING
Place:	CAMERON HOUSE
	Map in this issue
Time	7:30 p.m.



OLD BUSINESS

1) Delta Cub Contest was a success. Additional information in article by Bob Swet. It was suggested that we might try one at Redwood school. Most TOSS instructors agreed that 3 students/instructor was a good ratio. The November contest had twice the number of participants as the first one. We will definitely need more members for the next contest if its popularity continues to grow.

2) Treasurer's Report - approximately \$700 in the bank.

3) It was suggested that the club purchase new winches, retrievers, battery cables, batteries, and lines during the early part of 1992.

4) Christmas Party/Picnic - \$100 allocated for food, soda, etc. It will be held at the Aker's home on December 15 at 2:00 PM. It will be pot luck, so bring your side dishes or deserts. Hotdogs, hamburgers, and soda will be provided.

NEW BUSINESS

1) Elections were held even though the turn out was poor. The results for the 1992 officers is as follows:

- PRESIDENT — Mike Leal
VICE PRESIDENT — Thomas Akers
SECRETARY — Larry Jiminez
EDITOR/TREASURER — Bob Swet
FLYING SITES— Edgar Weisman

2) All members should pay their 1992 dues as soon as possible.

3) We have club flyers describing out activities and flying sites. Copies will be available at club

meetings or by contacting Bob Swet.

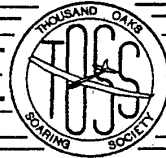
4) The Malibu club would like to coordinate their contest schedule with TOSS's. Edgar Weisman will be coordinator between the two clubs.

5) 1992 TOSS and Malibu club contest schedule

Table with columns: MONTH, TOSS DATE DAY C/D, MALIBU DATE. Rows include JANUARY through DECEMBER with associated dates and names like Peter Stairs, Mike Reagan, etc.

6) Other tentatively scheduled events: May - FAI X-County Contest, Taft, CA. CD = Art NcNamee June - Delta Cub Contest, Agoura, CA.

7) Special Guest - Greg Gorris of Oxnard brought in his A-10 sport scale slope soarer. He had many interesting construction techniques to accommodate the polystyrene fuselage. His 45.5" wingspan, 30" long, 21 oz. model has 267 sq.in. and utilizes an S4233 airfoil. The aileron/elevator configuration provides good control in light to medium winds. Greg has been flying slope at "The Cross" and Rincon Point for years.



This is his first attempt at designing/manufacturing a sailplane. Greg offers the A-10 in a semi-kit form for \$39.95 which includes cut/sanded fuselage sides, cut/sanded engine nacelles, cut foam wing cores, pre-formed aileron torque rods, instructions, and plans (1 sheet). Author's notes - I have seen this plane fly at Rincon and was very much impressed with its handling and ruggedness. Properly built, the polystyrene fuselage provides the same durability as a plywood fuselage. The kit that I purchased had excellently manufactured parts and all mating halves fit together precisely. This kit would not be recommended together due to the mandatory high precision shaping of some parts and the

building skill level assumed throughout the instructions. I would recommend this plane for those who have put a few sailplanes together and desire a rather unique sloper. -

— Bob —

WHAT'S NEW?

1) Bob Goldsmith is moving in January to Northern California to further develop his retirement skills. He has been an active club member for years and we will certainly miss him at the field



League of Silent Flight
10173 Saint Joe Rd.
Ft Wayne, IN 46835

League of Silent Flight

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I, _____ (please print), will support the philosophies, concepts and criteria set forth in the Bylaws of THE LEAGUE OF SILENT FLIGHT and give notice herewith of intention to attain Level 1 of the Accomplishments Program, and by so doing earn full recognition and privilege of membership. _____

(Signature)

Mailing Address: _____

AMA (or other FAI Affiliate) Licence or Membership No. _____

Note: ALL CORRESPONDENCE TO THE LSF MUST INCLUDE AT LEAST \$1.00 IN US STAMPS OR CHECK / M.O. FOR POSTAGE



and meetings. For years Bob has been honing his own flying skills while teaching beginners how to fly. Through his personal efforts, TOSS has many new members and a few less divots in our fields. We extend to Bob our thanks for all that he has done in the past and to wish him and his family only the very best in the future.

2) Thomas Akers places **FIRST** in Junior and Sportsman yearly standings in Southern California Soaring Clubs. Congratulations!! Just wait until he grows up.

3) I would like to wish every a **MERRY, MERRY CHRISTMAS** and the **HAPPIEST** of **HOLIDAY SEASON**.

— Bob —

DELTA CUB CONTEST

What do you do with energetic 50+ kids under one roof? Why, build Delta Cubs of course. And so, that's what we did. On November 23, 1991 Thousand Oaks Soaring Society held its second AMA Delta Cub Contest hosted by the National Park System at the Pavilion of Paramount Ranch.

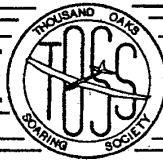
It all started like this. Up at dawn. Looked out the window to see what the weather is outside. The wind was blowing a good 15 miles per hour, gusting up to 30. For the little balsa and tissue planes we were going to build this day, things did not look good. Immediately a flurry of questions popped into my mind. Will it be too windy to build the planes in the open pavilion. Could we fit enough picnic tables in the shielded portion? What will we do if there isn't enough room. Would the wind die down by 11:00 AM so we

could hold the Fly-Offs? Will the weather scare off all the interested kids? Will the TOSS members even show up when they see this wind. What do you do if a lot of kids show up and the instructors don't? Too many questions, not enough answers. It was now getting close to the time to leave. So I packed up all the materials into my pickup and swayed on down the highway. Meanwhile, I am hoping that Edgar Weisman would have some ideas of what to do.

As I drove closer to Agoura, the winds were getting stronger along with the sinking feeling in my stomach. How do we cancel this contest crossed my mind. At least the answer to this question I knew. You don't. If you don't who is coming, you can't tell them not to come. Finally I arrived at the site. I am the first one there. The wind was nonexistent. It was as if some had put a giant glass dome over the valley or was I in the eye of a hurricane? It didn't matter, we could hold the contest. Soon, Edgar arrived and we immediately decided to move the Fly-off to as close to 10:00 AM as possible in fear that the wind would show up later. By now, TOSS members were starting to show up along with some contestants.

We quickly started assembling the building boards and distributing other supplies. It soon seemed that people were arriving faster than we could set things up. Instructors were assigned contestants to help. Kits were distributed and the brief opening speech was given. The moment that the children were waiting for had finally arrived.

Kits were opened and their plans pinned to our building boards. With our knives, glue and balsa in hand, we assembled the parts to the plan.



Between the children smiles and flights in fantasy, our creations took on a recognizable form. Reporters and photographers from three newspapers recorded those moments of childhood ecstasy where unforgettable memories are formed. One by one, the planes were finished. Just in time too, for new contestants were arriving. As the second group finished, a third and fourth arrived. Our luck was holding out, even though it did get breezy, the wind never got too strong.

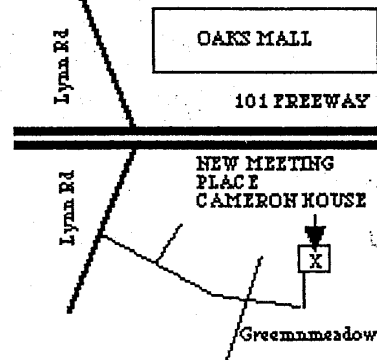
During the course of the day, some sixty planes were built by children of ages 5 to 50 years. Four fly-offs were held yielding to the winners some \$75 in gift certificates at local hobby shops. All contestants took home their pride and joy (airplanes) whether they one, lost or crashed. For the TOSS members, the children's smiles and their squeals of joy would be our reward.

On behalf of all the participants, I would like to express our thanks to; Blue Max Hobby Distributors (Oxnard), Marty's Hobbies (Thousand Oaks), Radiowave Hobbies (Ventura) and The Red Baron (Camarillo) for without whose generous donations, this contest would not have been possible. For the Rangers and support personnel of the Santa Monica National Recreation Area, we would like to express our gratitude for providing us with the publicity, additional participants and such a wonderful facility. Lastly, we would also like to acknowledge all those TOSS members who came out and assisted.

TOSS is looking forward to working with all our supporters during the next Delta Cub Contest tentatively scheduled for June 1992. See you then.

— Bob —

This is the new meeting place. From Lynn Rd. turn left on Greenmeadow go to the end. You can't go any farther. Look for signs indicating the Cameron House.



C/D's For the Year.

- JAN 11 Peter Stairs
- FEB 8 Mike Reagan
- MAR 15 Mike Leal
- APR 11 Larry Jiminez
- MAY 10 Bob Swet
- JUNE 13 Edgar Weisman
- AUG 8 Ralph Morgan
- SEPT 13 Miles Moran
- OCT 10 Art McNamee
- NOV 15 Terry Koplan
- DEC 12 Bob Sutton

SOUTHERN CALIFORNIA SOARING CLUBS
Annual Standings - 1991
FINAL (BEST) (7 of 10)

Name	Class	Club	Score	Contests
1 ATWELL, B	EXPERT	DUST	6935.9	7
2 CLERX, J	EXPERT	HSS	6911.4	7
3 EDERG, D	EXPERT	HSS	6882.1	7
4 REAGAN, M	EXPERT	TOSS	6870.6	7
5 JOY, G	EXPERT	HSS	6699.5	7
6 CHASTELER, F	EXPERT	HSS	6686.5	7
7 MORAN, M	EXPERT	TOSS	6684.9	7
8 SAGE, F	EXPERT	NCC	6651.3	7
9 LACKY, R	EXPERT	HSS	6598.7	7
10 ANDERSON, G	EXPERT	TPG	6598.5	7
11 BLEDSOE, R	EXPERT	NCC	6573.4	7
12 TILLMAN, N	EXPERT	ISS	6534.6	7
13 RODRIGUEZ, J	EXPERT	PSS	6431.2	7
14 LEVOE, M	EXPERT	TPG	6424.8	7
15 VAN GUNDY, D	EXPERT	SULA	6420.5	7
16 VICKERS, D	EXPERT	DUST	6387.5	7
17 FINK, S	EXPERT	HSS	6362.2	7
18 THOMAS, R	EXPERT	TOSS	6353.2	7
19 WEISMAN, E	EXPERT	ISS	6326.7	7
20 SHELBY, R	EXPERT	TOSS	6212.0	7
21 MCNAMEE, A	EXPERT	HSS	6187.4	7
22 JOY, B	EXPERT	NCC	6187.4	7
23 DOIG, A	EXPERT	EDSF	6145.5	7
24 CHILD, M	EXPERT	SMA	6121.1	7
25 DOUGLAS, I	EXPERT	PSS	6074.1	7
26 BUTTICH, G	EXPERT	TPG	6038.5	7
27 STROBEL, R	EXPERT	HSS	6008.7	7
28 RAYMOND, K	EXPERT	NCC	5996.4	7
29 KEIL, D	EXPERT	HSS	5993.5	7
30 CONWAY, P	EXPERT	TPG	5990.6	7
31 WURTS, J	EXPERT	PSS	5956.1	7
32 AKERS, T	EXPERT	TOSS	5946.0	7
33 KUTCH, N	EXPERT	HSS	5940.8	7
34 GERMANE, B	EXPERT	HSS	5929.2	7
35 RICHARDSON, P	EXPERT	HSS	5913.7	7
36 CROW, A	EXPERT	HSS	5792.3	7
37 ZINK, D	EXPERT	HSS	5680.1	7
38 PARSONS, J	EXPERT	TPG	5612.1	7
39 WAGNER, M	EXPERT	HSS	5533.0	7
40 MARDIN, T	EXPERT	DUST	5443.3	7
41 HENDRY, S	EXPERT	HSS	5435.6	7
42 GARDNER, R	EXPERT	TPG	5348.9	7
43 FARLESS, D	EXPERT	HSS	5310.4	7
44 SANDRINI, H	EXPERT	HSS	5089.5	7
45 NEHRING, C	EXPERT	DUST	5026.4	7
46 BONNANO, T	EXPERT	SULA	4930.5	7
47 DANRICH, D	EXPERT	HSS	4846.9	7

SOUTHERN CALIFORNIA SOARING CLUBS
Annual Standings - 1991
FINAL (BEST) (7 of 10)

Name	Class	Club	Score	Contests
54 SLIFE, B	EXPERT	HSS	4819.2	5
55 MALSUINDO, B	EXPERT	PSS	4777.9	5
56 OLSEN, P	EXPERT	SMA	4746.2	6
57 POLSEN, G	EXPERT	HSS	4687.7	6
58 FINK, D	EXPERT	SULA	4671.3	6
59 VALDES, R	EXPERT	TPG	4640.9	5
60 OLSEN, R	EXPERT	SMA	4631.8	6
61 CHASTAIN, B	EXPERT	PSS	4632.5	5
62 NOMBRO, L	EXPERT	SFV	4606.1	5
63 JOLLY, L	EXPERT	SULA	4581.8	5
64 MACKENZIE, S	EXPERT	SFV	4443.1	5
65 HALLFORD, P	EXPERT	PSS	4304.9	5
66 WEININGER, J	EXPERT	PSS	4278.8	5
67 MEININGER, J	EXPERT	NCC	4253.8	5
68 SCHNEIDER, S	EXPERT	TPG	4184.5	5
69 CHASTELER, T	EXPERT	HSS	4080.7	5
70 FINKENBNER, K	EXPERT	NCC	4072.4	5
71 PUCHALSKI, M	EXPERT	SULA	4013.0	5
72 PERKINS, D	EXPERT	PSS	3910.9	4
73 NIBG, D	EXPERT	SULA	3732.0	4
74 BILLMAN, T	EXPERT	HSS	3750.8	4
75 GERBIN, J, R	EXPERT	TOSS	3644.7	4
76 STAIRS, P	EXPERT	ISS	3620.8	4
77 BOBKIN, V	EXPERT	TOSS	3547.1	4
78 SHIMSEL, B	EXPERT	TOSS	3582.0	4
79 HIGGINS, N	EXPERT	HSS	3337.3	4
80 GRIES, H	EXPERT	HSS	3288.6	4
81 HALL, D	EXPERT	HSS	3288.6	4
82 YOUNG, B	EXPERT	HSS	3203.6	4
83 JULIEN, H	EXPERT	HSS	2974.6	4
84 WILSON, D	EXPERT	SMA	2943.2	4
85 AVERSON, D	EXPERT	HSS	2903.9	4
86 KARP, B	EXPERT	SULA	2898.2	4
87 KLATSKIN, B	EXPERT	HSS	2883.5	4
88 JENKINS, H	EXPERT	HSS	2834.1	4
89 FRAZEE, B	EXPERT	HSS	2816.0	4
90 SHARRIS, J	EXPERT	HSS	2817.2	4
91 GOODWIN, B	EXPERT	HSS	2816.0	4
92 FALKENHAM, R	EXPERT	SULA	2781.3	4
93 SPENCER, R	EXPERT	DUST	2706.4	4
94 HERENDA, K	EXPERT	PSS	2667.3	4
95 BROOKS, N	EXPERT	DUST	2601.2	4
96 RITTER, C	EXPERT	DUST	2581.5	4
97 LARSEN, D	EXPERT	TPG	2479.6	4
98 PEETERS, B	EXPERT	HSS	2474.8	4
99 VAN GUNDY, S	EXPERT	HSS	2465.6	4
100 SADOFF, S	EXPERT	SULA	2421.8	4
101 CHASTAIN, R	EXPERT	DUST	2379.2	4
102 STOKER, P	EXPERT	HSS	2303.2	4
103 RITTER, J	EXPERT	HSS	2283.4	4
104 HORTON, J	EXPERT	HSS	2283.4	4
105 RODGERS, J	EXPERT	HSS	2283.4	4
106 FOSTER, W	EXPERT	HSS	2283.4	4

SOUTHERN CALIFORNIA SOARING CLUBS
Annual Standings - 1991
FINAL (BEST OF 10)

Name	Class	Club	Contests
213 RAMSAY, D	SPORTSMAN	HSS	575.6
214 DAVISON, P	SPORTSMAN	DUST	574.8
215 EICKENHORST, E	SPORTSMAN	SULA	569.7
216 SOMELL, D	SPORTSMAN	EDSF	563.7
217 SKINNER, J	SPORTSMAN	EDSF	563.3
218 DUAYLE, J	SPORTSMAN	DUST	549.8
219 MORRIS, M	SPORTSMAN	SFV-PRY	520.0
220 COLLETT, M	SPORTSMAN	HSS	503.7
221 LOVELL, C	SPORTSMAN	TPG	503.2
222 SIMMER, R	SPORTSMAN	TPG	501.9
223 SANDERS, A	SPORTSMAN	HSS	499.7
224 YEE, J	SPORTSMAN	SWSA	477.4
225 PETRE, B	SPORTSMAN	SWSA	386.0
226 COOPER, K	EXPERT	EDSF	323.2
227 COLLINS, T	SPORTSMAN	SULA	291.8
228 LITSEY, R	SPORTSMAN	SWSA	211.3
229 CHAMBERLIN, R	SPORTSMAN	HSS	210.0
229 DeANGELIS, K	SPORTSMAN	MRCs	210.0
229 AVEDO, G	SPORTSMAN	HSS	210.0
229 JOHNSON, R	SPORTSMAN	HSS	210.0
229 OSTROMSKI, J	SPORTSMAN	HSS	210.0
229 SIPOSS, G	SPORTSMAN	HSS	210.0
229 SMITH, M	EXPERT	HSS	210.0

(SC) TEAM STANDINGS - 1991
FINAL

HSS = 39,126
 PSS = 36,762
 TPG = 36,463
 TOSS = 36,112
 NCC = 33,439
 SULA = 32,354
 DUST = 32,028
 ISS = 27,708
 SWSA = 24,218
 EDSF = 20,927
 SFVSE = 14,165
 MRCs = 12,110

SOUTHERN CALIFORNIA SOARING CLUBS
Annual Standings -1991
FINAL (BEST)
706/10

Name	Class	Club	Score	Contests
160 NIBLEY, B	EXPERT	TOS5	1987.0	1
161 TIMBS, N	EXPERT	NONE	1970.0	1
162 NORTHERN, D	EXPERT	TOS5	1968.0	1
163 GEORGE, S	EXPERT	PSS	1935.5	1
164 BRAVARD, R	EXPERT	NONE	1924.0	1
165 BAUDER, K	EXPERT	NONE	1919.0	1
166 LABARRE, R	EXPERT	NONE	1912.0	1
167 WILKINS, D	EXPERT	NONE	1901.9	1
168 ADDIS, S	EXPERT	SULA	1926.7	1
169 GIBBS, D	EXPERT	HSS	1924.3	1
170 ROBERTS, G	EXPERT	HSS	1919.3	1
171 MAZUR, F	EXPERT	NCC	1918.2	1
172 HUNTER, J	EXPERT	NCC	1918.2	1
173 RITSCHKE, G	EXPERT	NONE	1901.9	1
174 SMITH, J	EXPERT	NONE	1900.5	1
175 KIETZYKA, M	EXPERT	HSS	1892.1	1
176 MORGEND, M	EXPERT	HSS	1887.1	1
177 DEGREVE, P	EXPERT	PSS	1882.3	1
178 OTTON, M	EXPERT	PSS	1880.4	1
179 GATTI, M	EXPERT	PSS	1879.9	1
180 GEORGE, R	EXPERT	PSS	1871.4	1
181 ADOCK, K	EXPERT	TOS5	1868.3	1
182 KOPLAN, T	EXPERT	HSS	1861.7	1
183 CONRAD, M	EXPERT	NONE	1840.2	1
184 TROUT, C	EXPERT	HSS	1839.4	1
185 LAIR, D	EXPERT	HSS	1838.2	1
186 ANDERSON, B	EXPERT	HSS	1838.2	1
187 CLARE, J	EXPERT	HSS	1838.2	1
188 ABATO, G	EXPERT	HSS	1838.2	1
189 SILVA, M	EXPERT	HSS	1817.9	1
190 FRANZ, R	EXPERT	HSS	1817.9	1
191 MERRIFIELD, H	EXPERT	HSS	1817.9	1
192 BARNHART, J	EXPERT	HSS	1817.9	1
193 ROHOLT, C	EXPERT	HSS	1817.9	1
194 WHITEFORD, A	EXPERT	HSS	1817.9	1
195 GRAHAM, H	EXPERT	HSS	1817.9	1
196 STAFFORD, J	EXPERT	HSS	1817.9	1
197 HUSMANN, C	EXPERT	HSS	1817.9	1
198 HALLAHAN, J	EXPERT	HSS	1817.9	1
199 HATCH, J	EXPERT	HSS	1817.9	1
200 LEDUC, P	EXPERT	HSS	1817.9	1
201 BAUDER, J, K	EXPERT	HSS	1817.9	1
202 HARDY, B	EXPERT	HSS	1817.9	1
203 BITZBERGER, J	EXPERT	HSS	1817.9	1
204 LANDERS, A	EXPERT	HSS	1817.9	1
205 KOSHPULOS, G	EXPERT	HSS	1817.9	1
206 SNEEDEN, T	EXPERT	HSS	1817.9	1
207 STEVENS, J	EXPERT	HSS	1817.9	1
208 SHERMAN, M	EXPERT	HSS	1817.9	1
209 WILSON, J	EXPERT	HSS	1817.9	1
210 ARNDL, A	EXPERT	HSS	1817.9	1
211 NAVE, J	EXPERT	HSS	1817.9	1
212				

SOUTHERN CALIFORNIA SOARING CLUBS
Annual Standings -1991
FINAL (BEST)
706/10

Name	Class	Club	Score	Contests
107 CONDON, S	SPORTSMAN	TPG	2281.2	2
108 GEBBEN, R	EXPERT	HSS	2228.0	3
109 GORDON, A	SPORTSMAN	DUST	2219.5	4
110 DUCAN, W	SPORTSMAN	SULA	2187.7	4
111 SMITH, S	SPORTSMAN	DUST	2180.7	3
112 JAVESON, B	EXPERT	SMSA	2144.9	2
113 KINDRICK, K	EXPERT	PSS	1988.6	2
114 LUEKEN, J	EXPERT	NCC	1983.8	2
115 STARK, T	EXPERT	NCC	1974.7	4
116 CLARK, D	EXPERT	NCC	1942.4	2
117 BRANDT, D	EXPERT	HSS	1932.1	2
118 WARNER, G	EXPERT	NCC	1911.8	2
119 NEMCEK, D	EXPERT	HSS	1881.6	2
120 GABRIEL, P	EXPERT	PSS	1850.1	2
121 BURNS, R	EXPERT	PSS	1836.1	2
122 BOESE, J	EXPERT	HSS	1817.9	2
123 LEPLA, F	EXPERT	HSS	1803.8	2
124 WHITE, L	EXPERT	HSS	1802.2	2
125 SNEDDEN, J	EXPERT	HSS	1789.0	2
126 CRANFORD, K	EXPERT	DUST	1789.0	2
127 HOLLEY, M	EXPERT	SMSA	1771.2	2
128 GARRISON, J	EXPERT	EDSF	1760.0	2
129 GUSTIN, R	EXPERT	DUST	1753.7	2
130 DEVLIN, E	EXPERT	DUST	1663.2	2
131 THE COLGAN, D	EXPERT	SMSA	1654.4	2
132 BUKSPAN, R	EXPERT	PSS	1618.2	2
133 GOREY, B	EXPERT	HSS	1615.0	2
134 WILSON, D	EXPERT	HSS	1584.4	2
135 MATTINGLY, B	EXPERT	HSS	1543.8	2
136 NESTAR, E	EXPERT	HSS	1533.3	2
137 PANZAR, D	EXPERT	HSS	1531.7	2
138 SLUDOD, E	EXPERT	HSS	1531.7	2
140 MARLE, J	EXPERT	HSS	1531.7	2
141 LORENZ, W	EXPERT	HSS	1531.7	2
142 LAUGHLIN, S	EXPERT	HSS	1531.7	2
143 BLASS, R	EXPERT	HSS	1531.7	2
144 WALDEN, W	EXPERT	HSS	1531.7	2
145 CONDON, D	EXPERT	HSS	1531.7	2
146 SHORT, H	EXPERT	HSS	1531.7	2
147 RAAGAN, M	EXPERT	HSS	1531.7	2
148 BATES, J	EXPERT	HSS	1531.7	2
149 TAU, H	EXPERT	HSS	1531.7	2
150 ANDREWS, R	EXPERT	HSS	1531.7	2
151 JOHNSON, B	EXPERT	HSS	1531.7	2
152 LEAL, M	EXPERT	HSS	1531.7	2
153 CROOK, J	EXPERT	HSS	1531.7	2
154 POWELL, R	EXPERT	HSS	1531.7	2
155 BUTOLICH, N	EXPERT	HSS	1531.7	2
156 GRISANTI, P	EXPERT	HSS	1531.7	2
157 VALDES, A	EXPERT	HSS	1531.7	2
158 GEORGE, C	EXPERT	HSS	1531.7	2
159 RENAUD, T	EXPERT	HSS	1531.7	2