

REVS ROLLS AND ROTOR TALK

F3A F3C F3D

OFFICIAL NEWSLETTER OF THE 1991 WORLD CHAMPIONSHIPS

Contest Director's Report

Today marks the end of a week of superb competition, and tomorrow we leave for home or holiday. The bonds of friendship that have been established between us will continue long after the end of the 1991 World Championships and whenever we meet again, our time together in Wangaratta will be remembered and discussed with affection.

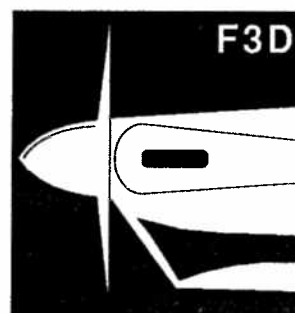
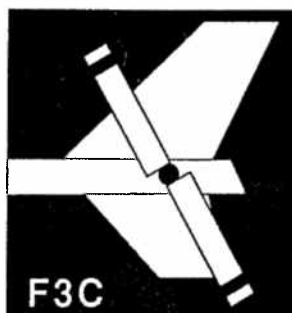
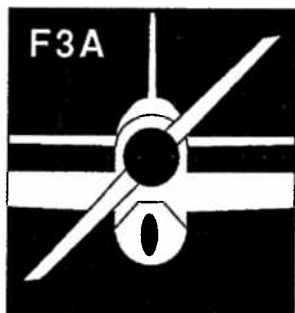
We salute three new Individual World Champions, Dub Jett in Pylon, Kazuyuki Sensui in Helicopter and Chip Hyde in Aerobatics. We salute the winning National Teams, USA in Pylon and Helicopter, and Canada in Aerobatics, and we thank all of you for freely sharing your knowledge and experience with us, for it is the sharing that makes our aeromodelling such a great sport.

On behalf of Australian modellers we thank Eddie and Helene Lo our sponsors for without their generous financial support given over many years, this even would not have been possible.

It takes many to stage an event of this size and to all those who gave up their time to carry out the multitude of tasks, I give my thanks for a job well done.

On behalf of all Australian modellers we wish you a pleasant and safe trip home. Till we meet once again on a flying field somewhere in the world,

Brian Green
Contest Director



F3A INDIVIDUAL RESULTS

<i>Pl</i>	<i>Name</i>	<i>Country</i>	<i>Qual</i> <i>Norm 1</i>	<i>FIO 1</i> <i>Norm 2</i>	<i>FIO 2</i> <i>Norm 3</i>	<i>FIO 3</i> <i>Norm 4</i>	<i>Total</i>
1	Hyde, Chip	USA	1000.00	521.00	531.63	532.88	3000.00
2	Somenzini, Quique	Argentina	991.49	520.50	525.88	531.00	2987.01
3	von Linsowe, David	USA	944.65	516.88	519.88	523.75	2952.86
4	Kristensen, Ivan	Canada	975.88	513.75	517.13	525.25	2952.86
5	Prettner, Hanno	Austria	975.96	513.50	510.50	516.25	2930.36
6	Akiba, Yoichiro	Japan	975.94	506.88	505.75	513.25	2912.00
7	Matt, Wolfgang	Liechtenstein	963.34	509.00	496.75	513.38	2903.72
8	Naruke, Giichi	Japan	957.96	505.63	501.00	509.00	2883.65
9	Cunningham, Bill	USA	930.72	503.13	502.25	507.00	2861.87
10	Patrick, Dave	Canada	955.64	498.38	497.75	505.00	2859.90
11	Lossen, Bertram	Germany	956.27	490.00	498.38	505.38	2845.16
12	Hatta, Hajime	Japan	926.85	492.88	493.00	505.88	2821.70
13	Marsden, Greg	Canada	945.24	490.63	485.88	489.38	2805.31

Irish World Championships Fruit Cake

Ingredients

1 cup butter
 1 cup sugar
 4 large eggs
 1 cup diced fruit
 1 tablespoon nuts
 1 teaspoon baking soda
 1 cup brown sugar
 1 tablespoon lemon juice
 1 bottle whisky

Method

- Sample whisky to check for quality.
- Take large bowl. Check the whisky again to be sure it is of

the highest quality. Pour one level cup and drink. Repeat.

- Turn on electric mixer, beat one cup of butter in a large fluffy bowl, add one spoontea of sugar and beat again.
- Make sure the whisky is still OK. Cry another tup.
- Turn off the mixer. Break two leggs and add to the bowl and chuck in the cup of dried fruit. Mix on the turner. If the fruit gets stuck in the beaters, pry it loose with a drewscraver. Sample the whisky again and check for

consistency.

- Next sift two cups of salt. Or something – who cares? Check the whisky.
- Now sift in the lemon juice and strain your nuts. Add one ballspoon of brown sugar, or whatever colour you can find. Wix mel. Grease the oven. Turn the cake pan to 350 gredees.
- Don't forget to beat off the turner. Throw the bowl out the window. Check the whisky again and go to bed.

F3A TEAMS RESULTS

<i>NAME</i>	<i>COUNTRY</i>	<i>SUB TOTAL</i>	<i>TOTAL</i>	<i>PLACE</i>
Kristensen, Ivan	Canada	2919.74		
Patrick, Dave	Canada	2859.18		
Marsden, Greg	Canada	2828.06	8606.979	1
Hyde, Chip	United States	2991.90		
von Linsowe, David	United States	2826.30		
Cunningham, Bill	United States	2784.61	8602.810	2
Akiba, Yoichiro	Japan	2919.90		
Naruke, Giichi	Japan	2866.13		
Hatta, Hajime	Japan	2773.03	8559.060	3
Lossen, Bertram	Germany	2861.05		
Erang, Peter	Germany	2724.22		
Wessels, Peter	Germany	2604.81	8190.080	4
Matt, Wolfgang	Liechtenstein	2882.22		
Matt, Roland	Liechtenstein	2615.82		
Matt, Norbert	Liechtenstein	2466.33	7964.369	5
Goldsmith, Peter	Australia	2761.58		
Edwards, Eddie	Australia	2614.49		
Coram, Steve	Australia	2582.14	7958.210	6
Prettner, Hanno	Austria	2919.96		
Kronlachner, Heinz	Austria	2466.03		
Berger, Leo	Austria	2455.02	7841.010	7
Fan, Min	China	2629.50		
Liu, Aiqiang	China	2601.28		
Ma, Jianxing	China	2501.11	7731.890	8
Binks, Ken	United Kingdom	2639.79		
Hirst, Richard	United Kingdom	2568.06		
Nicholls, Andy	United Kingdom	2495.43	7703.280	9
Paysant Leroux, Christophe	France	2655.87		
Lombard, Laurent	France	2487.96		
Bossard, Christian	France	2456.23	7600.060	10
De Gotte, Alexandre	Belgium	2713.96		
Lenaerts, Jos	Belgium	2518.50		
Zardini, Jean Pierre	Belgium	2255.82	7488.280	11

F3A TEAMS RESULTS

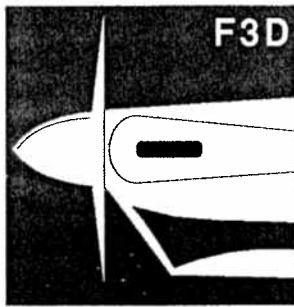
<i>NAME</i>	<i>COUNTRY</i>	<i>SUB TOTAL</i>	<i>TOTAL</i>	<i>PLACE</i>
Peyer, Hugo	Switzerland	2589.00		
Emmenegger, Hans	Switzerland	2493.35		
Giezendanner, Emil	Switzerland	2190.08	7272.430	12
van Vliet, Danny	Netherlands	2450.94		
van der Toorren, Dennis	Netherlands	2428.43		
van Vliet, Jan	Netherlands	2219.90	7099.270	13
Vallas, Tero	Finland	2345.61		
Kippo, Tapani	Finland	2339.05		
Eirola, Esa	Finland	2261.97	6946.630	14
Casson, Greg	South Africa	2426.44		
Calefaco, John	South Africa	2298.88		
Venter, Gerhard	South Africa	2179.77	6905.090	15
Craighead, Ross	New Zealand	2359.20		
Johnson, Stephen	New Zealand	2318.32		
Stairmand, Paul	New Zealand	2208.40	6885.919	16
Cho, Sgon Young	Korea	2371.69		
Kim, Sung Nam	Korea	2340.68		
Yoo, Seon Sang	Korea	2046.33	6758.700	17
Tubthong, Chaiphath	Thailand	2090.91		
Vongprasert, Prathug	Thailand	2031.21		
Techavipark, Praphon	Thailand	1789.72	5911.840	18
Rombaut, Christobal	Spain	2091.90		
Anguera, Jose	Spain	1983.83		
Vivas, Mariano	Spain	1794.26	5869.990	19
Chan, Patrick	Singapore	1981.46		
Yong, Johnny	Singapore	1871.39		
Mok, Chek Koon	Singapore	1742.53	5595.380	20
Somenzini, Quique	Argentina	2966.43		
Falco, Daniel	Argentina	2459.30	5425.730	21
Keane, Ray	Ireland	2320.08		
Barrett, Noel	Ireland	2051.16	4371.240	22
Kozinski, Jerzy	Poland	1156.20	1156.200	23

F3C INDIVIDUAL RESULTS

<i>Pl</i>	<i>Name</i>	<i>Country</i>	<i>Rnd 1</i>	<i>Rnd 2</i>	<i>Rnd 3</i>	<i>Rnd 4</i>	<i>Total</i>	<i>Fly-off</i>
1	Sensui K	Japan	225.0	238.5	226.5	217.5	690.0	
2	Mann W	USA	224.5	224.5	209.5	226.0	675.0	
3	Youngblood C	USA	212.5	220.0	222.0	225.5	667.5	228.0
4	Dobashi Y	Japan	210.5	237.0	213.5	217.0	667.5	223.5
5	Suwabe S	Japan	219.5	223.0	221.0	213.5	663.5	
6	Gorham R	USA	213.0	199.5	204.5	218.0	635.5	
7	Graber D	Switzerland	207.5	221.5	205.5	201.5	634.5	
8	Brennsteiner J	Austria	204.5	214.0	181.0	199.5	618.0	
9	Ikeda T	Japan	202.0	122.0	202.0	211.5	615.5	
10	Parizot R	France	196.5	201.0	197.5	172.5	595.0	
11	Heine V	Germany	191.5	199.5	186.5	200.0	591.0	
12	Roessner J	Germany	193.5	197.5	191.5	198.5	589.5	
13	Gasser H	Switzerland	204.5	188.5	167.0	189.5	582.5	
14	Von Niederhausern U	Switzerland	203.5	189.5	148.5	179.0	572.0	
15	Weil G	France	181.5	193.5	172.0	166.5	547.0	
16	Graf O	Germany	180.0	189.0	145.0	158.5	527.5	
17	Barbuto R	Australia	146.0	179.5	171.5	173.5	524.5	
18	Verhagen J	Netherlands	154.5	180.5	180.0	160.5	521.0	
19	Rose P	France	176.5	180.0	159.5	163.0	519.5	
20	Knox J	New Zealand	181.0	105.0	164.0	172.0	517.0	
21	Mount L	Great Britain	169.0	174.5	169.0	158.0	512.5	
22	Kastiel E	Israel	165.0	185.0	130.0	149.5	499.5	
23	Bliss C	Great Britain	170.0	165.0	121.5	161.5	496.5	
24	Verplanke K	Netherlands	144.0	0.0	160.0	189.5	493.5	
25	Nessen R	Norway	173.5	120.5	147.5	172.0	493.0	
25	Newman A	Great Britain	128.5	177.5	159.5	156.0	493.0	
26	Wessel J	Australia	153.0	166.5	155.0	163.0	484.5	
27	Verbrugge T	Belgium	172.5	161.0	145.5	130.5	479.0	
28	Vanderschelden G	Belgium	136.5	170.5	151.0	157.0	478.5	
29	Bingel H	Austria	160.0	165.0	149.5	126.0	474.5	
30	Park H	Korea	137.5	0.0	168.0	161.0	466.5	
31	Proos F	Australia	53.5	159.0	172.0	133.0	464.0	
32	Campbell A	New Zealand	157.5	101.0	132.5	151.5	441.5	
33	Porokka J	Finland	107.0	153.5	129.5	154.5	437.5	
34	McKay B	New Zealand	131.0	144.0	24.0	106.5	381.5	
35	Kim Y	Korea	116.0	62.5	107.0	128.5	351.5	
36	Zhang X	China	91.0	98.5	91.5	97.0	287.0	
37	Kim S	Korea	82.0	91.5	71.0	74.0	247.5	

F3C TEAM RESULTS

<i>Rank</i>	<i>Country</i>	<i>Score</i>	<i>Rank</i>	<i>Country</i>	<i>Score</i>
1	USA	1978.0	9	Austria	1092.5
2	Japan	1969.0	10	Korea	1065.5
3	Switzerland	1789.0	11	Netherlands	1014.5
4	Germany	1708.0	12	Belgium	957.5
5	France	1661.5	13	Israel	499.5
6	Great Britain	1502.0	14	Norway	493.0
7	Australia	1473.0	15	Finland	437.5
8	New Zealand	1340.0	16	China	287.0



F3D Report

The Final Day

What was very important and noticeable about these World Championships was the wonderful flow of friendliness that transmitted between all individuals of opposing countries. I never saw one instance where information was held back. The standard of workmanship was superb. I saw a Japanese model in kit form and its fibreglass and foam construction was absolutely perfect.

The standard of flying was very high and coupled with the advance in engine technology produced race times 22% faster than the last World Championships we hosted at Point Cook in Victoria.

To go faster in any sport whether it be athletics or F3D engines requires an exponential increase in effort to gain any improvement. Therefore 22% is an enormous jump in achievement.

The actual racing from day one confirmed that the American team was the team to beat – even though after day one the South Africans were slightly in front. From day two the USA team was not headed. The secret of pylon racing is to fly as fast as possible, but in doing so, not cause any penalties. If you achieve this aim you will usually place in the World Champion-

ships. This is an extremely difficult task. Each team member over fourteen rounds can throw away his two worst scores. No one in these championships was able to escape a maximum penalty result – even the World Champion. Whilst flying a competitor must continually hold back his desire to fly right over the top of the pylons to reduce the distance travelled and the time required to complete the course.

As stated previously, the USA team looked good from the start and actually walked away with the event with a massive 345 second advantage over Japan. Third was South Africa. Due to the dominance of the Americans and Japanese, the real race was actually between New Zealand and South Africa for third place. New Zealand was on the razor edge in regard to penalties and South Africa had a bit in hand. This proved to be the deciding factor and a couple of flame-outs by New Zealand put South Africa onto the dais.

Australia had a disastrous World Championships with plenty of drama, with Langham running two 200 pointers after three rounds. Matthews and Phelan were in the same position after five rounds. This gave them no buffer at all. Time wise, Australia was second to USA but unreliability in performance cost them dearly.

The individual event was no less exciting. It was a very close tussle between Shadel, Bartle and Jett of America. It ended up with Shadel having to achieve a 1-09 to lead Jett, and he achieved a 1-08. It was a very emotional scene when he and his partner Bruce de Chastel of Australia heard the bad news that Dave re-

ceived a cut on the eighth lap of the last heat. Due to the closeness of the competition this error of micro-second proportion cost Shadel the World Champion crown dropping him to third place with Bartle settling into second place by half a second.

Dub Jett thoroughly deserved his crown. With the team effort between himself and John Shannon (who built the engine for this event), not only did Dub become World Champion, but now has the World Record of 66.6 seconds, taking 2.5 seconds of his record of the previous day!

The presentation at the field was an emotional affair with South Africa, Japan and finally the champions USA mounting the rostrum. The breaking out of the champagne and the victory spraying of each other by the American team was a great spectacle.

Everyone I spoke to enjoyed these World Championships. We have made a lot of friends and all looks good for our sport.

The highlights of these World Championships were:-

- The slick organisation of the racing by the multitude of helpers that were needed;
 - The frequency recording and monitoring operated by Eric and Fay Bielby;
 - The fine performance of the South Africans;
 - Dub Jett in his presentation speech saying he “Loves Australia”;
- and finally, but not least,
- The support by Kraft Systems to make this event possible.

The Australian pylon group thanks all the countries that attended and in particular for making this event easy to run.

John Hughan

F3D INDIVIDUAL RESULTS

Pl	Name	Team	Rnd 1	Rnd 2	Rnd 3	Rnd 4	Rnd 5	Rnd 6	Rnd 7	Rnd 8	Rnd 9	Rnd 10	Rnd 11	Rnd 12	Rnd 13	Rnd 14	Total
1	Jett D	USA	75.3	71.4	74.4	71.6	72.1	76.3	79.7	70.1	71.0	200.0	69.0	69.2	66.6	67.6	854.5
2	Bartle H	USA	82.6	73.3	73.1	73.6	200.0	73.2	72.4	70.5	71.5	69.1	71.1	72.1	69.9	70.3	860.1
3	Shadel D	1989 World Champ	73.1	74.9	70.9	73.2	74.2	70.9	73.4	200.0	74.1	66.8	71.4	69.0	68.7	75.2	860.6
4	Larson L	USA	80.5	73.6	200.0	76.9	76.5	75.6	75.6	74.6	74.2	76.9	77.4	76.5	81.9	200.0	920.2
5	Chujo N	Japan	200.0	77.0	76.2	78.7	77.9	85.0	76.4	77.8	86.1	72.1	76.2	82.3	74.5	200.0	940.1
6	Sagemuller H	Germany	82.0	88.3	85.6	87.7	200.0	200.0	76.6	83.8	78.6	78.1	81.8	75.7	76.3	77.7	972.1
7	Thompson T	New Zealand	200.0	84.7	81.5	200.0	82.2	83.3	82.8	82.8	82.8	77.8	79.5	78.7	80.5	80.6	977.0
8	Langham R	Australia	82.1	200.0	200.0	81.4	80.3	80.4	82.6	83.7	93.5	76.5	78.1	84.2	85.3	79.1	987.2
9	Matthews G	Australia	81.4	84.5	200.0	83.6	200.0	85.2	79.9	80.8	81.2	81.1	84.5	81.5	80.0	85.7	989.4
10	Soeda K	Japan	83.6	82.0	82.0	200.0	88.3	88.1	91.1	78.5	84.3	76.3	82.3	78.8	85.8	83.3	993.2
11	Danks J	New Zealand	87.9	84.9	85.6	82.7	200.0	81.0	200.0	82.5	82.6	81.7	82.2	88.4	79.3	80.9	999.7
12	Graef E	Germany	88.8	87.1	92.3	89.9	86.0	81.5	89.4	81.9	82.2	89.5	79.7	200.0	87.7	78.7	1022.4
13	Mitchell D	South Africa	89.0	90.6	92.4	89.0	85.2	86.7	84.1	200.0	82.2	86.5	84.5	80.1	87.0	92.2	1037.0
14	Reid K	United Kingdom	86.6	92.7	108.9	86.0	88.6	86.9	85.5	81.8	83.5	200.0	79.1	83.1	96.6	88.4	1038.7
15	Cox G	South Africa	86.2	82.4	85.1	85.9	89.0	89.1	85.7	87.4	91.0	200.0	86.1	86.8	85.6	92.6	1040.2
16	Sato Y	Japan	100.6	89.2	90.8	83.6	83.0	85.5	84.9	83.7	85.5	200.0	89.7	93.4	87.7	89.5	1046.4
17	Board P	United Kingdom	91.0	89.9	91.6	90.7	91.3	83.2	90.4	81.8	200.0	90.0	82.6	89.0	82.2	200.0	1053.6
18	Sherliker P	South Africa	91.3	87.4	92.4	93.9	99.8	85.9	87.4	84.3	82.4	87.3	200.0	88.8	87.8	105.1	1068.6
19	Laurie A	United Kingdom	200.0	100.4	91.7	87.8	97.5	87.9	89.1	97.8	88.8	80.9	82.9	200.0	86.5	200.0	1191.1
20	Whalley R	New Zealand	103.8	85.2	89.4	88.1	86.3	85.8	97.2	200.0	87.1	200.0	91.7	88.7	200.0	200.0	1303.3
21	Muller J	Germany	200.0	200.0	96.5	96.4	89.1	92.5	84.9	200.0	88.9	200.0	200.0	81.6	81.5	84.9	1396.1
22	Wenbourne J	Chile	143.5	137.2	97.0	99.7	106.1	154.4	200.0	100.7	92.3	97.5	200.0	200.0	101.2	200.0	1529.6
23	Brouquieres G	France	92.5	200.0	200.0	96.8	90.3	200.0	89.7	200.0	200.0	92.7	200.0	106.8	200.0	116.8	1685.6
24	Phelan R	Australia	78.1	200.0	79.1	200.0	200.0	200.0	81.5	72.0	200.0	78.3	200.0	200.0	200.0	200.0	1789.0

F3D TEAM RESULTS

Pl	Name	Team	Rnd 1	Rnd 2	Rnd 3	Rnd 4	Rnd 5	Rnd 6	Rnd 7	Rnd 8	Rnd 9	Rnd 10	Rnd 11	Rnd 12	Rnd 13	Rnd 14	Total
1st	Team Total	2634.9															
1	Jett D	USA	75.3	71.4	74.4	71.6	72.1	76.3	79.7	70.1	71.0	200.0	69.0	69.2	66.6	67.6	854.5
2	Bartle H	USA	82.6	73.3	73.1	73.6	200.0	73.2	72.4	70.5	71.5	69.1	71.1	72.1	69.9	70.3	860.1
4	Larson L	USA	80.5	73.6	200.0	76.9	76.5	75.6	75.6	74.6	74.2	76.9	77.4	76.5	81.9	200.0	920.2
2nd	Team Total	2979.7															
5	Chujo N	Japan	200.0	77.0	76.2	78.7	77.9	85.0	76.4	77.8	86.1	72.1	76.2	82.3	74.5	200.0	940.1
10	Soeda K	Japan	83.6	82.0	82.0	200.0	88.3	88.1	91.1	78.5	84.3	76.3	82.3	78.8	85.8	83.3	993.2
16	Sato Y	Japan	100.6	89.2	90.8	83.6	83.0	85.5	84.9	83.7	85.5	200.0	89.7	93.4	87.7	89.5	1046.4
3rd	South Africa	3145.8															
18	Sherliker P	South Africa	91.3	87.4	92.4	93.9	99.8	85.9	87.4	84.3	82.4	87.3	200.0	88.8	87.8	105.1	1068.6
13	Mitchell D	South Africa	89.0	90.6	92.4	89.0	85.2	86.7	84.1	200.0	82.2	86.5	84.5	80.1	87.0	92.2	1037.0
15	Cox G	South Africa	86.2	82.4	85.1	85.9	89.0	89.1	85.7	87.4	91.0	200.0	86.1	86.8	85.6	92.6	1040.2
4th	New Zealand	3280.0															
7	Thompson T	New Zealand	200.0	84.7	81.5	200.0	82.2	83.3	82.8	82.8	82.8	77.8	79.5	78.7	80.5	80.6	977.0
11	Danks J	New Zealand	87.9	84.9	85.6	82.7	200.0	81.0	200.0	82.5	82.6	81.7	82.2	88.4	79.3	80.9	999.7
20	Whalley R	New Zealand	103.8	85.2	89.4	88.1	86.3	85.8	97.2	200.0	87.1	200.0	91.7	88.7	200.0	200.0	1303.3
5th	United Kingdom	3283.4															
14	Reid K	United Kingdom	86.6	92.7	108.9	86.0	88.6	86.9	85.5	81.8	83.5	200.0	79.1	83.1	96.6	88.4	1038.7
17	Board P	United Kingdom	91.0	89.9	91.6	90.7	91.3	83.2	90.4	81.8	200.0	90.0	82.6	89.0	82.2	200.0	1053.6
19	Laurie A	United Kingdom	200.0	100.4	91.7	87.8	97.5	87.9	89.1	97.8	88.8	80.9	82.9	200.0	86.5	200.0	1191.1
6th	Germany	3390.6															
6	Sagemuller H	Germany	82.0	88.3	85.6	87.7	200.0	200.0	76.6	83.8	78.6	78.1	81.8	75.7	76.3	77.7	972.1
12	Graef E	Germany	88.8	87.1	92.3	89.9	86.0	81.5	89.4	81.9	82.2	89.5	79.7	200.0	87.7	78.7	1022.4
21	Muller J	Germany	200.0	200.0	96.5	96.4	89.1	92.5	84.9	200.0	88.9	200.0	200.0	81.6	81.5	84.9	1396.1
7th	Australia	3765.6															
8	Langham R	Australia	82.1	200.0	200.0	81.4	80.3	80.4	82.6	83.7	93.5	76.5	78.1	84.2	85.3	79.1	987.2
9	Matthews G	Australia	81.4	84.5	200.0	83.6	200.0	85.2	79.9	80.8	81.2	81.1	84.5	81.5	80.0	85.7	989.4
24	Phelan R	Australia	78.1	200.0	79.1	200.0	200.0	200.0	81.5	72.0	200.0	78.3	200.0	200.0	200.0	200.0	1789.0
8th	Chile	6329.6															
22	Wenbourne J	Chile	143.5	137.2	97.0	99.7	106.1	154.4	200.0	100.7	92.3	97.5	200.0	200.0	101.2	200.0	1529.6
9th	France	6485.6															
23	Brouquieres G	France	92.5	200.0	200.0	96.8	90.3	200.0	89.7	200.0	200.0	92.7	200.0	106.8	200.0	116.8	1685.6