
Event Advisor Final Report



Clear Networks JUNIOR WORLD ORIENTEERING CHAMPIONSHIPS 7-15 July, Dubbo, Australia

7th – 13th July 2007

Dubbo, New South Wales, Australia

2. Visit: 30th June – 16th July 2007

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A. Summary

I am pleased and happy to be able to write a report from a very successful JWOC 2007. After the event I was able to see happy competitors and proud organizers.

The Australian organizers did an excellent job in hosting the first JWOC outside of Europe. They proofed that high-level events can also be organized outside of Europe.

These Championships were a good example for a mutual give and take. The runners got beautiful, technical terrain, challenging courses and Australian hospitality and the Australian orienteers learned how to implement the extra requirements of a big event (e.g. finish arenas, ceremonies, sponsorship, internet and media services). Interestingly JWOC also brought technical novelties to Australia. For the first time a set of radio controls was setup in Australia and a light beam has been used at the finish line. I am sure these new tools will be useful to support future Australian orienteering competitions.

In my report I am supposed to report about problems as well as weak and strong points. Overall there were no problems faced which could not be solved and everything went smoothly which makes it difficult to highlight individual strong or weak points. Therefore, I decided to describe in a chronological way and quite detailed how JWOC 2007 has been organized. In the individual sections highlights, specialties, issues and successful ways of implementation are pointed out.

During all of JWOC there were no protests on which the jury had to decide.

B. General

2007 was the first time JWOC was organized outside of Europe. The Australian organizers were first worried that only a limited number of nations would participate due to the long and expensive travel. Finally 28 nations with 92 women and 129 men athletes and 65 coaches (a total of 286) participated. This means the initial worries were not justified and JWOC can be organized outside of Europe. The transition from the European summer to the Australian winter was not a problem for the teams and they were all well prepared to the cold temperatures and the short days.

During the search for sponsors the organizers asked about the possibility of a title sponsor. In the new IOF Competition Rules more flexibility related to sponsorship is given but a title sponsor or race sponsor still requires the approval by the IOF. This approval was obtained from the IOF for JWOC 2007. Three months prior to JWOC the organizers were still struggling to get internet connections into the event arenas. The mobile phone reception in the competition area was very limited and therefore not an option. All big Australian telecom companies were not interested in a sponsorship and providing internet access in the arenas would have been very expensive. By coincidence somebody mentioned Clear Networks to the organizers and this turned into a very successful title sponsorship providing satellite broadband internet access to all competition arenas for free. This opened many new possibilities to the organizers. They managed to provide a live audio stream, live text messages as well as live split times from the radio controls to the internet. Despite the fact that races took place in the middle of the night in Europe the blog on the JWOC web page showed many comments during the races indicating that people from around the globe followed the races live.

I would like to mention that JWOC brought for the first time radio controls to Australia. This new equipment will now offer new possibilities for future bigger Australian events.

C. Event Program

The program of JWOC was slightly modified compared to the program proposed by the IOF. This change was approved by the SEA and the IOF Foot-O committee. The opening ceremony was not held in conjunction with the Sprint but on the model day. There were two reasons for this: 1.) the days are short in the Australian winter with sunrise at 07:00 and sunset at 17:15 which would not give enough daylight for a Sprint and the Opening Ceremony. 2.) the location of the Sprint in the Western Plains Zoo was special and not suitable for a combination with the Opening Ceremony since spectators for the ceremony would have had to enter the Zoo. Therefore, the ceremony was in downtown Dubbo where JWOC could be brought to the general public of the city. In my opinion both solutions for the opening ceremony make sense and it has to be decided from case to case which solution suits the local setup best.

The JWOC program worked fine for the organizers. There were three moves of the competition arena whereof two under time pressure because of the short daylight time (Sprint to Long and Middle to Relay).

The public event in parallel to JWOC attracted for Australia means many orienteers (~550 starting participants) and thereby brought knowledgeable spectators to the JWOC events. Unfortunately not many overseas participants found there way to Australia.

Final program of JWOC 2007:

Date	JWOC	Western Plains Carnival
Fri 6 th July	Arrival	
Sat 7 th July	Morning: Model Event Afternoon: Opening Ceremony	Event 1: New South Wales Championship
Sun 8 th July	Morning: Sprint Distance	Afternoon: Event 4: Dubbo Dash (Public Sprint)
Mon 9 th July	Long Distance	
Tue 10 th July	Rest Day	Event 6: Western Plains Challenge 1
Wed 11 th July	Middle Distance Qualification	
Thu 12 th July	Morning: Middle Distance Final	Afternoon: Event 9: Western Plains Challenge 2 (middle Distance)
Fri 13 th July	Morning: Relay Afternoon: Closing Ceremony Evening: Banquet	Afternoon: Event 11: Australian Champs Model Event 12: Australian Schools Relay Champs
Sat 14 th July	Departure	Event 13: Australian Championships
Sun 15 th July		Event 14: Australian Relay Championships

D. Bulletins

All bulletins have been issued as defined by the competition rules and encompassed the required content. In Bulletin 3 the new requirement of publishing the exact location of each competition area and finish arena has been followed in analogy to bulletin 3 of WOC2006 in Denmark. Providing this information offers the teams the possibility to investigate the areas with modern technology like Google Earth. In the case of JWOC2007 the quality of the satellite pictures was by chance very poor in the competition area and did not give a lot of information. For the zoo the pictures were much better and the arena could easily be identified. The advantage of the new rule is that after issuing Bulletin 3 the organizers can more openly plan the competition arenas (e.g. with technical people, catering etc.). A lot of work has been put by Nick Dent, Christine Brown and myself into Bulletin 4 to get all details right. This was worth the effort and Bulletin 4 provided the binding guidelines for the teams and organizers during all of JWOC. Only two minor changes had to be made to Bulletin 4. A part of a sentence was omitted during printing and the bus schedule had to be changed. Both changes could be distributed as addendum together with Bulletin 4. The change of the bus schedule was necessary since busses could not drive across the paddocks to the start areas as planned due to the soft ground. The above average rainfall prior to JWOC softened the ground underneath the surface and caused several vehicles to bog. One of them was a bus during a test ride prior to JWOC which bogged up to the axels. Therefore, it was decided to stay with the buses on the solid roads and walk the competitors longer to the different starts. Having seen the picture of the bogged bus in the internet and at the Team Leader's Meeting nobody complained about this change.

The JWOC web page showed in addition to the bulletins a detailed terrain description with pictures as well as an interactive map with controls and the corresponding control descriptions and pictures from the terrain. This way the special nature of Australian granite terrain could be shared with all competitors prior to JWOC.

E. Organization

The organizing committee was very dedicated and did a good job during the time I worked with the team (since November 2004). No changes occurred during this long time period.

Even though some people did a lot of work and were tired in the end no 'burn-outs' were observed during JWOC and everybody was satisfied and happy about the delivered work and achieved result. Some were already looking forward to the Easter 2008 carnival and WMOC 2009 ☺

Chairperson	Ron Pallas
Marketing Director	Paul Prudhoe
Technical Director	Dave Lotty
Assistant National Controller	Rob Vincent
Events Director	Ted Mulherin
Finance Director	Barry Hanlon
JWOC Liaison	Nick Dent
Planning Director	Robert Spry
Secretary	Neville Fathers

In addition Christine Brown from Tasmania acted as the national controller.

One issue related to the organizing committee was the knowledge transfer to the day organizers (responsible meet directors for a single race) and the different special teams (e.g. start). All the details were decided and discussed in the committee and this knowledge first had to be transferred in order to bring the special teams up to speed. This is an important step which has to be considered in future events.

F. Finances

As for all sport events it was difficult for the organizers to find sponsors. In order to obtain some cash money they decided to work with club loans. Various Australian orienteering clubs loaned 1,000 to 10,000 AUS \$ to the organizers totaling in ~50,000 AUS \$. Also the Easter 2008 Carnival (one of the big Australian orienteering events with several hundred participants) was included into the financial plan.

Several of the sponsors provided services rather than money. This is primarily the city of Dubbo providing a lot of infrastructure and Clear Networks who provided broadband internet connection into the competition arenas.

The local Dubbo enterprises (apart from the accommodation supporters) that supported the event were pleased with the results. It appears that not many people stayed at the accommodation sponsors. But the cafe's and restaurants were happy with the outcome.

In a first financial forecast the organizers think that they will be able to pay the club loans back and that after Easter 2008 a moderate surplus should be produced.

The JWOC races themselves produced a minus of several 10,000 AUS \$. The entry fees for JWOC which were held in line with entry fees of recent JWOCs in Europe covered only accommodation, meals and transportation for the teams. All the costs for administration, mapping, printing, course planning, controlling and organizing could not be covered and had to be compensated by the surplus of the public events organized in parallel to JWOC and at Easter 2008. The organizers decided on purpose not to raise the entry fees to allow as many nations to participate in the Australian JWOC and not to discourage them with high entry fees.

G. Event Center

The event centre was at the Dubbo Mainstay Motor Lodge at Whylandra Street about 2 km southwest of the city center. The media centre and the category A accommodation were in the same motel. One single room was enough to serve as competition centre. The eating room was also used for the team leaders meeting.

The organizers could use the free WLAN provided in the competition centre.

H. Media

The following 11 media representatives have been accredited:

- Erik Borg (Norway)
- Bob Mouatt (Orienteering Australia)
- Rob Preston (Orienteering Australia and NSW Promotions Director)
- Mike Hubbert (Australian Orienteer)
- Bill North (Dubbo Daily Liberal) - there were a number of other Dubbo Daily Liberal journalists and photographers who registered, but Bill turned up every day, and competed. Bill attended both as a sports reporter (his normal role) but also took the photographs.
- Tim Pankhurst (Dubbo PhotoNews)
- Christoph Ruedlinger (Switzerland)
- Simon Addison (New Zealand Maptalk / Infonews)
- Erik Bobach (Denmark)
- Dorthe Hansen (Denmark)
- Brian Harvey (Independent Video Photographer)

All of the above took also photos and were pleased with the photo opportunities given. They had special photo zones at the spectator controls, at the mandatory routes and along the finish shoot. Since there were only few media representatives no special equipment or infrastructure has been provided.

The Austrian Orienteering Federation's magazine included an article written by an Australian orienteer and was published in July 2006. Of course there were many articles in the Australian Orienteer in the 12 months prior to JWOC.

The Dubbo Daily Liberal newspaper reported on a daily base from the competition with long articles containing color pictures. Beside the races also reports about the organizers and the opening as well as closing ceremony were published. In total there were 23 articles in Dubbo Daily Liberal. Also the weekly Dubbo Photo News showed a number of pictures especially from the opening ceremony.

Good radio coverage from the two local stations and from the regional ABC station was received. ABC is like BBC in England and has sometimes national coverage. On the day before the sprint race Paul Prudhoe was invited for an interview by the host of the ABC's Grandstand which was broadcasted national. Subsequently Paul had daily phone interviews with a local Dubbo station (2DU) and regional ABC. On Tuesday 2DU interviewed live in the studio Olav Lindens, Jan Benes and Siri Ulvestad and ABC interviewed the Australian runners Simon Uphill and Vanessa Round.

The sprint race was covered by the regional Prime (Channel 7) and by WIN (Channel 9) TV stations, with footage being aired on Monday evening.

Channel 7 again covered the Middle Distance final and interviewed Olav Lindens, Hilary Wood (Australian Team Manager) and the Norwegian team Manager. This footage was shown on Friday evening. The TV clips are available on You Tube at http://www.youtube.com/watch?v=ieu3ON_Zblo and at <http://www.youtube.com/watch?v=uW0xWCjnCWA>. There are also some other amateur videos on YouTube of JWOC.

Unfortunately there was no coverage by any national TV stations or by national press but Paul Prudhoe was very pleased with the local printed press and with the local radio and TV coverage.

There has also been coverage of the training camp immediately before JWOC by the local papers and TV stations in Orange (NSW).

I. Accommodation

Categories B (cabins) and C (lodge) were offered in a caravan park just across the event centre. The crossing of this major highway was not an issue. A speed reduction was put in place by the police and the team leaders and athletes were warned several times about the possible danger.

Compared to Bulletin 2 accommodations A and B were swapped due to demand and infrastructure provided in the Motel. The various options were presented on the internet with pictures.

The organizers were able to provide free WLAN access as well as 6 public PCs at the Motel. This services were very much appreciated by the teams and heavily used.

There was one issue in the Motel with the use of double beds. Some teams were not happy with the fact that two athletes had to sleep in a double bed (separate linens were provided). With the help of the Motel owners acceptable solutions for everybody could be found.

The city of Dubbo offered many other places of accommodation so that there was no problem to also host all organizers and the competitors of the accompanying Western Plains Carnival.

J. Training Opportunities

Two official training opportunities were offered prior to JWOC. Training Camp 1 from 3rd January until 14th January 2007 included the Ultimax Stinger 5 Day event in Orange NSW and a camp in Canberra. All events were held in granite terrain similar to the JWOC terrain. About 50 men and 30 women attended the camp. There were teams from NOR, SWE, NZL and individuals from SUI and CZE.

Training camp 2 was held in Orange (NSW) from Friday 29th June until 6th July. Training courses were offered on 4 granite maps (all in 1:10'000 and in addition 2 in 1:15'000) and 2 sprint maps. 26 of the 28 JWOC teams attend the training camp.

The attendance in the two training camps was as expected and planned by the organizers with few teams and individuals attending camp 1 (long and expensive travel for most teams) and almost all teams attending camp 2 (training opportunity and acclimatization).

Several Training maps were available on the JWOC internet page as PDF documents already a year before JWOC. The maps with courses from the first training camp were also published on the web page in February 2007. This way all teams had an equal change to get an optical impression of maps and courses in granite terrain.

K. Maps

All areas used for the competitions had never been mapped before. For the sprint event a map of the Western Plains Zoo in Dubbo was produced in the scale 1:5'000 with 2.5m contours. The map was field checked in November 2006 by Alex Tarr and checked by Robert Vincent. The ISSOM 2007 standards were used.

All other competitions were held in an isolated area of granite terrain about 30 minutes southwest of Dubbo. A contiguous area of 18 km² was mapped and different sections were used for the various events. The mapping was done by Eric Andrews and Alex Tarr. Robert Vincent checked the whole area for consistency. The mappers did a terrific job with this complex terrain and produced excellent maps. They followed the planned time schedule and a large part of the map was already mapped 1 year before the competition.

The competition maps were all 1:10'000 with 5 m contours except the long distance event which used a map 1:15'000 with 5 m contours. The organizers had asked for a map scale of 1:10'000 for the long distance event but I insisted on a map at 1:15'000 as requested by the IOF. In 2006 a test print with various combinations of contour thickness and rock dot sizes was produced to evaluate the optimal combination. The offset printed map at 1:15'000 turned out to be detailed but readable and there were no complaints from teams or runners.

All maps were offset printed on Impress matt, 115 gsm paper and sealed in plastic bags. It was clear that digital printing for such detailed terrain would not have been an option.

The courses, except the relay, were also offset printed. Christine Brown and I checked all maps and no misalignment of the course prints could be detected. The relay maps were overprinted with a laser printer and were very carefully checked by the course planner and the controllers. About 5-10% of the overprints had to be discarded due to slight misalignment of the overprints.

For all races a small warm-up map was produced to allow runners map contact before the races. They were also offset printed. For the zoo no warm-up map could be produced due to space restrictions (too small quarantine area). Nevertheless a small rehearsal map was digitally printed showing a unused section of the map to the runners.

L. Ceremonies

JWOC was launched with a march through the main streets of Dubbo on Saturday 7th July 2007. The opening ceremony was held in the RSL Club auditorium with an Aboriginal 'touch'. The competitors were welcomed by the major of Dubbo and an Aboriginal community member. Young Aboriginal dancers entertained the runners together with the Sing Australia choir.

Since there was no suitable auditorium available in close proximity to the Event Center the medal ceremonies were held in the competition arenas. The stage in front of the result board was a good location providing enough space for the first 6 runners of each class. The stage and result board was always located on the opposite side of the finish shoot providing optimal view for the spectators and allowed the media representatives to be inside the shoot in front of the spectators. Most teams and the spectators stayed for the ceremonies so that they could be held in front of an impressive crowd. The organizers integrated the two landowners into the ceremonies and they liked the opportunity to hand over medals and diplomas to the young winners. In addition to the medals and the diplomas the first three obtained a flower bouquet and a plush animal (kangaroo, koala bear and wombat).

The closing ceremony was held before the banquet on Friday 13th July in the Dubbo Civic Center. Nick Dent lead through the ceremony and thanked the teams for the exciting competitions they showed. All medal winners of the week were recognized. The opportunity was taken to also present key people of the organizing committee to the teams. A small present was given on request from some coaches to the winners of the Middle Distance B Finals. Hugh Cameron handed over the IOF flag to a Swedish representative and closed JWOC 2007. Sometimes the teams were a bit noisy but overall they enjoyed the ceremony.

Immediately after the ceremony the dinner buffet was opened.

The party following the dinner caused no problems. Teams were advised not to leave the Civic Center until they returned to the accommodation. Shuttle bus transportation to the accommodation was offered from about 23:00 until the end of the disco at 02:00. Keeping the team members inside the Civic Center was not difficult since it was dark and cold outside (Australian winter). The doors were guarded to keep any non-JWOC people out. The partying continued at the accommodations but also here no problems occurred. Since the Motel and the Caravan Park were exclusively used by JWOC organizers and teams no other guests were disturbed.

M. Team Leaders' Meetings

For the organizers it was clear that the Team Leaders' Meetings are the business card of the organizers. Therefore, they were well prepared and needed a clear structure. The lead of the meeting was one of my duties but I delegated this task to Nick Dent. In his role as Team Liaison Officer we had been in contact with all teams and was also in charge of organizing critical things like accommodation, meals, ceremonies and transport. Since he was managing the Australian JWOC team several times in the past Nick knew exactly how Team Leaders' Meetings have to be organized and lead. From the organizer side there were always present: Nick Dent, Christine Brown (national controller) the course planner of the corresponding event and myself. The agenda was fixed and was presented with a beamer onto a screen. All meetings were over in less than 30 minutes and no lengthy discussions were necessary. The Meeting agenda was:

- Highlight of the Day (e.g. congratulations to winning teams)
- Content of Team Information Package (e.g. start lists, number bibs and pins, result and splits)
- Milestones (e.g. deadline for entries, medal presentation, team leaders meeting)
- Information Update (details about courses, forest, e.g. extra controls from public event in forest, fence crossings)
- Weather Update
- Questions & Answers

The work in the meeting and by the organizers in general was recognized by the team managers with a standing ovation during the last Team Leaders' Meeting.

N. Result Service

The new/changed IOF Rule 23.7 which requires that runners can run across the finish line could be implemented with the SportSoftware from Stephan Krämer connected to a light beam. I confirmed with Björn Heinemann from the IOF IT Commission that this system setup is suitable for a precision of 1 second required by Rule 23.5. There were a number of tied places (Sprint: 29, Long: 5, MDF: 4) but I think these do not justify the enormous extra effort for a potential timing with 1/10th of a second. The precision of 1 second is justified for JWOC and can be achieved by organizers with a reasonable effort.

The software from Stephan Krämer was used for the results generation (OE2003 and OS2003 in Version 10.3), the commentator support (OESpeaker 2003 and OSSpeaker 2003 in Version 10.3) and the integration of the light beam (OE Finish and OS Finish).

All runners obtained SI-Cards Version 6 from the organizers to guarantee compatibility with the software and the SI-Units.

SI-Units from different Australian clubs were used. They were of generation 6 and 7. All units were programmed in the competition mode with a pre-defined wake-up time. The programming was done in the presence of the IOF controller. Only one unit failed during the whole week. All competitors were using the needle punch as required and nobody had to be disqualified due to this incidence.

The start and finish times were synchronized via two precise Seiko stopwatch S129 which stayed in sync over several days and which were checked each morning. The start signal was given with a peeping clock.

The finish was run with a light beam attached to a laptop running OE/OS Finish software. This laptop was in a network with the server laptop running OE/OS 2003. Runners read out their SI-Card into both laptops. From the first server labels with running time and start number were printed. These were stuck on the result slats for the corresponding runners and placed onto the result board. Also to the first server the laptop computer from the commentator team running OE/OS Speaker software were connected. They obtained in addition split times from the radio controls.

The backup system was first planned to be a second light beam. It was then decided to use a push button instead. This proved to be very helpful to resolve issues when multiple runners crossed the finish line at the same time (i.e. one interrupt of light beam). The push button was attached to a third laptop running OE/OS Finish which was in a network with a second server running OE/OS 2003. Also into these two computer runners were reading out their SI-Cards. The first two readout stations for laptops 1 and 3 were piggybacked and an official was flipping over the units for the runners to read out into both units immediately after crossing the finish line. The other read out stations were located on a table in the results tent after the finish line. A last readout station was attached to a printer to print the split times.

The second backup timing system was a Seiko Stopwatch which printed out the finish times combined with a manual recording the bib numbers. This system had never to be used.

The commentator team was responsible to send online result to the internet. They also provided the radio splits to the internet page. After the races official results were uploaded to the OA (Orienteering Australia) homepage for publication. Also some maps and courses were placed on the internet. In retrospect it would have been a nice service if the maps and courses could have been made available via an online tool like RouteGadget (<http://www.routegadget.net>). This way all runners would have had the opportunity to draw their courses and compare them with the competitors. This is highly recommended for future JWOC organizers.

There was a uncertainty among the organizers about the scoring details for the Team Competition in the Middle Distance Final. It was nowhere described (rules or JWOC guidelines) how the runners from the B finals should be counted. With the help of some team coaches the following rule was applied: In the A final the placing of runners who finished correctly (e.g. Men A: 1 to 57) were counted. In the B final the placing were continued from A final with all correct finishers (e.g. Men B: 58 to 119). Runners who not finished correctly in either the A or B final obtained placing 120 (one more than the last correct finisher). The best 3 results were added up per class.

O. Model Event**Summary**

Weather Overcast, cool and slightly wet
 Map Quarry Hill, 1:15'000 and 1:10'000, both with 5m contour interval on one print

Course

Distance 3.9 km
 Climb 170 m 4.3%
 Controls 19

The organization was kept small and simple. The start organization from the -6 minutes call-up until the start line was demonstrated to the teams. Start infrastructure like start clock was indicated with signs. In addition, a fence crossing, a mandatory route and a refreshment control were demonstrated. No demonstration of the finish layout with light beam has been modeled. This was not an issue and no questions have been asked.

P. Sprint Distance**Summary**

Weather Rain before first start. Therefore wet and slippery terrain. During competition overcast with some rain. Cool.
 Arena L-shaped with one spectator control with mandatory route on the west side and finish shoot in the south.
 Map Western Plains Zoo, 1:5'000, 2.5m contour interval
 Max Time 40 minutes

Results Men

Distance 3.25 km
 Climb 25 m 0.8%
 Controls 18
 Start Interval 1 min Min/Km
 Positions 1 to 6:

1	Vojtech	KRAL	CZE	00:13:59	00:04:18
2	Olav	LUNDANES	NOR	00:14:05	00:04:20
3	Ivan	SIRAKOV	BUL	00:14:23	00:04:26
4	Martin	HUBMANN	SUI	00:14:27	00:04:27
5	Zsolt	LENKEI	HUN	00:14:28	00:04:27
5	Christian	BOBACH	DEN	00:14:28	00:04:27
Slowest time	119	U Hang	LEUNG	HKG	00:35:53 00:11:02
Miss punched	7				
Did not start	2				
Ties of 2 runners	15				
Ties of 3 runners	1				

Results Women

Distance 2.7 km
 Climb 15 m 0.6%
 Controls 17
 Start Interval 1 min Min/Km
 Positions 1 to 6:

1	Eva	SVENSSON	SWE	00:13:19	00:04:56
2	Sarka	SVOBODNA	CZE	00:13:20	00:04:56
3	Maja	ALM	DEN	00:13:23	00:04:57
4	Siri	ULVESTAD	NOR	00:13:35	00:05:02
5	Jenny	LÖNNKVIST	SWE	00:13:37	00:05:03
6	Anastasia	TRUBKINA	RUS	00:13:56	00:05:10
Slowest time	88	Yukara	NAGATA	JPN	00:25:47 00:25:47
Miss punched	2				

Did not start	0
Ties of 2 runners	9
Ties of 3 runners	4

The Western Plain Zoo provided a very special and interesting sprint area which was technically not very difficult but required very fast running and thereby provoked errors. The mix between flat forested areas with small trails and the open parkland with the circular road and the animal enclosures required constant map reading and provided several route choices.

The team tents were setup in the quarantine area since all runners had to be in quarantine prior to the first start (~230 persons). The 4 portable toilets provided were not quite enough.

The entire quarantine area had been enclosed by a 2.5 m tall fence blocking visibility into the competition area prior to the start (see picture).



The setup of the courses and the restrictions of the Zoo allowed only for a relatively small quarantine area which was big enough for warming up but too small to provide a useful warm-up map. Since there had been no model event and no warm-up map the organizers provided the runners with a rehearsal map of an unused area of the zoo to allow a preview of the map style.

Due to a restriction by the Zoo no metal spikes were allowed. This was controlled at pre-start.

In the men and women races 16 (13%) and 13 (15%) tied positions were observed. Despite these quite high numbers I support the IOF decision to stay with a timing precision of 1 second for JWOC. The additional technical effort to measure times accurately with a precision of 1/10th of a second would be enormous and beyond the scope of JWOC. It has to be mentioned that JWOC 2007 was the first event in Australia using a light beam at the finish.

Q. Long Distance

Summary

Weather	Sunshine, quite warm (~15°C)
Arena	U-shaped with 2 spectator controls in the arena (first a man made ramp in the NE, second a mandatory route in the SW), 1 spectator control on two distinct bolderw on a hill side in the SE above the arena and finally the finish shoot in the SE of the arena.
Map	Malang, 1:15'000, 5 m contour interval
Max Time	3 hours

Results Men

Distance	11.1 km					
Climb	495 m	4.5%				
Controls	27					
Start Interval	2 min					Min/Km
Positions 1 to 6:	1	Olav	LUNDANES	NOR	01:11:30	00:06:26
	2	Magne	DÆHLI	NOR	01:14:05	00:06:40
	3	Christian	BOBACH	DEN	01:15:31	00:06:48
	4	Simon	UPPILL	AUS	01:16:42	00:06:55
	5	Stephan	KODEDA	CZE	01:17:40	00:07:00
	6	Torgeir	NØRBECH	NOR	01:17:51	00:07:01
Slowest time	121	Liang	JIANLONG	CHN	03:04:54	00:16:39
Miss punched	7					
Did not start	1					
Ties of 2 runners	4					

Results Women

Distance	7.2 km					
Climb	300 m	4.2%				
Controls	16					
Start Interval	2 min					Min/Km
Positions 1 to 6:	1	Siri	ULVESTAD	NOR	01:00:47	00:08:27
	2	Kine Hallan	STEIWER	NOR	01:01:13	00:08:30
	3	Heini	SAARIMAKI	FIN	01:01:48	00:08:35
	4	Sabine	HAUSWIRTH	SUI	01:02:16	00:08:39
	5	Silje	JAHREN	NOR	01:02:34	00:08:41
	6	Vanessa	ROUND	AUS	01:02:50	00:08:44
Slowest time	88	Yuki	SHIRAKATA	JPN	02:48:04	00:23:21
Miss punched	4					
Did not start	0					
Ties of 2 runners	1					

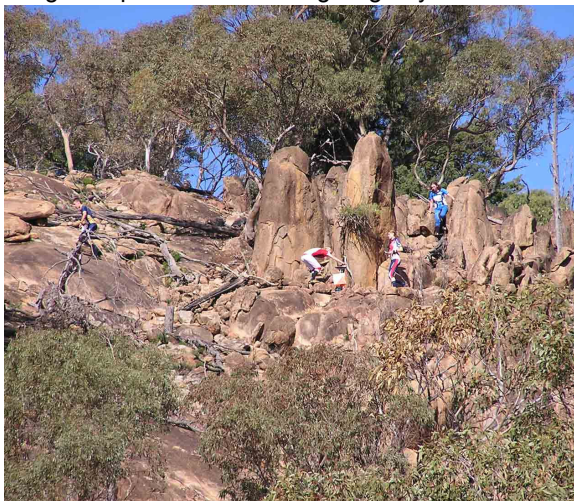
The U-shaped arena was very interesting for the spectators since the runners could be seen 3 times during the race and in the finish shoot. To enable this spectacular arena the course planners decided to use a map exchange for men and women. This way the interpretation of the courses around the arena was clear for all runners. The map exchange was after 40% for the men and after 35% for the women course.

In all arenas spectators were only on one side of the finish shoot which was on the outside of the U- or L-shaped arena. This way the result board could be located well visible to everybody on the opposite site of the shoot. Photographers which were allowed on this



side could shoot spectacular pictures with runners and the crowd along the shoot. This setup was also ideal for the medal ceremonies since the runners were very well visible on the stage in front of the result board. The spectators did not have to move and the media representative could be inside the finish shoot in front of the spectators to shoot their pictures.

One spectator control was located on a prominent double boulder on a hillside above the arena (see picture). It was very well visible how the runners approached the control and also when they made mistakes by climbing too high or too low. The commentators had to be advised to not help the runners which made visible mistakes since the speakers could be heard in the terrain. If a commentator would indicate that a particular runner is for example too low this would be of help to the runners. After this hint the commentators did a good job in guiding the spectators without giving any hints to runners.



R. Middle Distance Qualification**Summary**

Weather Sunshine, cool (10-13°C)
 Arena No spectator control and only finish shoot. The same arena was used for Middle Distance Qualification and Final.
 Map Ngan Girra, 1:10'000, 5 m contour interval
 Max Time 70 minutes

Results Men A

Distance 3.5 km
 Climb 135 m 3.8%
 Controls 17
 Start Interval 2 min Min/Km
 Positions 1 to 3: 1 Timo SILD EST 00:23:15 00:06:39
 2 Vilius ALELIUNAS LIT 00:23:25 00:06:41
 3 Martin HUBMANN SUI 00:23:57 00:06:51
 20th position 20 Daniel PORTAL GORDILLO ESP 00:27:16 00:07:47
 Slowest time 42 Andy STRAT USA 00:49:59 00:14:17
 Miss punched 1
 Did not start 0
 Ties of 2 runners 1

Results Men B

Distance 3.53 km
 Climb 140 m 4.0%
 Controls 17
 Start Interval 2 min Min/Km
 Positions 1 to 3: 1 Olav LUNDANES NOR 00:23:51 00:06:49
 2 Petter ERIKSSON SWE 00:24:55 00:07:07
 3 Duncan COOMBS GBR 00:25:10 00:07:11
 20th position 20 Petr NURMUKHAMETOV RUS 00:28:36 00:08:10
 Slowest time 42 Ho Ching CHIU HKG 00:53:02 00:15:09
 Miss punched 1
 Did not start 0
 Ties of 2 runners 0

Results Men C

Distance 3.54 km
 Climb 120 m 3.4%
 Controls 17
 Start Interval 2 min Min/Km
 Positions 1 to 3: 1 Zsolt LENKEI HUN 00:23:21 00:06:40
 2 Magne DÆHLI NOR 00:23:34 00:06:44
 3 Vojtech KRAL CZE 00:24:04 00:06:53
 20th position 20 Phillipp MULLER GER 00:27:39 00:07:54
 Slowest time 43 U Hang LEUNG HKG 00:57:45 00:16:30
 Miss punched 0
 Did not start 0
 Ties of 2 runners 0

Results Women A

Distance 2.93 km
 Climb 100 m 3.4%
 Controls 14
 Start Interval 2 min Min/Km
 Positions 1 to 3: 1 Jenny LÖNNKVIST SWE 00:23:10 00:07:59

	2	Tineke	BERTHELSEN	NZL	00:25:19	00:08:44
	3	Simona	KAROCHOVA	CZE	00:26:02	00:08:59
20 th position	20	Holly	KUESTNER	USA	00:30:49	00:10:38
Slowest time	31	Lu	JIAMIN	CHN	01:09:41	00:24:02
Miss punched	0					
Did not start	0					
Ties of 2 runners	1					

Results Women B

Distance	2.93 km					
Climb	105 m	3.6%				
Controls	14					
Start Interval	2 min					Min/Km
Positions 1 to 3:	1	Kine Hallan	STEIWER	NOR	00:24:48	00:08:33
	2	Maja	ALM	DEN	00:24:55	00:08:36
	3	Nicole	SCALET	ITA	00:25:01	00:08:38
20 th position	20	Regula	MÜLLER	SUI	00:31:42	00:10:56
Slowest time	29	Zhou	XIANGYI	CHN	00:49:28	00:17:03
Miss punched	2					
Did not start	0					
Ties of 2 runners	1					

Results Women C

Distance	2.97 km					
Climb	100 m	3.4%				
Controls	14					
Start Interval	2 min					Min/Km
Positions 1 to 3:	1	Ida Marie	BJØRGUL	NOR	00:25:02	00:08:21
	2	Vanessa	ROUND	AUS	00:25:35	00:08:32
	3	Lizzie	INGHAM	NZL	00:26:09	00:08:43
20 th position	20	Judith	WYDER	SUI	00:32:30	00:10:50
Slowest time	30	Eileen	UNDERWOOD	USA	01:03:16	00:21:05
Miss punched	0					
Did not start	0					
Ties of 2 runners	1					

This is by far the most complicated race to organize due to the three parallel heats. The assignment of start times, heats, lanes and start numbers were done before the race because the maps and control descriptions had to be prepared in advance. Since the three courses were randomly distributed onto the three start lanes, the control descriptions and maps were numbered with the number bib and prepared in a pile per lane. This assignment of courses to number bibs and start lanes was controlled multiple times by different people to exclude errors.

The start draw of the maximal 6 runners per team into the matrix of 3 start blocks and 3 heats was done semi-automatically in Excel.

All these activities were supported and supervised by me.

S. Middle Distance Final**Summary**

Weather	Sunshine, cool (10-12°C)
Arena	U-shaped arena with a spectator control with mandatory route in the NW and the last control in the NE. Spectators were allowed up to 10 meters to the last control. This was a nice opportunity for everybody to shoot spectacular action photos. The finish shoot looped around the spectators on the north and west side of the arena.
Map	Dhaadyiwa, 1:10'000, 5 m contour interval
Max Time	70 minutes

Results Men A

Distance	4.5 km				
Climb	115 m	2.6%			
Controls	22				
Start Interval	2 min				Min/Km
Positions 1 to 6:	1	Olav	LUNDANES	NOR	00:23:15 00:05:10
	2	Petter	ERIKSSON	SWE	00:23:59 00:05:20
	3	Martin	HUBMANN	SUI	00:24:02 00:05:20
	4	Magne	DÆHLI	NOR	00:24:29 00:05:26
	5	Adam	CHROMY	CZE	00:24:31 00:05:27
	6	Michal	KRAJCIK	SLK	00:24:53 00:05:32
Slowest time	57	Luca	DALLAVALLE	ITA	00:35:24 00:07:52
Miss punched	3				
Did not start	0				
Ties of 2 runners	0				

Results Women A

Distance	3.6 km				
Climb	85	2.4%			
Controls	21				
Start Interval	2 min				Min/Km
Positions 1 to 6:	1	Jenny	LÖNNKVIST	SWE	00:22:07 00:06:09
	2	Ida Marie	BJØRGUL	NOR	00:23:41 00:06:35
	3	Tatyana	MENDEL	RUS	00:24:32 00:06:49
	3	Saila	KINNI	FIN	00:24:32 00:06:49
	5	Anastasia	TRUBKINA	RUS	00:24:41 00:06:51
	6	Simona	KAROCHOVA	CZE	00:24:44 00:06:52
Slowest time	57	Gaelle	BARLET	FRA	00:35:58 00:09:59
Miss punched	1				
Did not start	1				
Disqualified	1				
Ties of 2 runners	4				

Due to the number of competitors in the men's class (129) it was decided to only organize an A and a B final and no C final. The B finals for men and women started with 1 minute start interval on shortened courses (Men B: 4.07 Km, 105 m climb, 20 controls; Women B: 3.03 Km, 80 m climb, 16 controls) before the A finals.

This was the first race with a tied medal place. Two runners were on 3rd place in the women's race. The spare medal had to be engraved after the ceremony and could be handed over again during the closing ceremony.

Two disqualification happened during this race because two runners did not follow the mandatory route through the arena after the first spectator control. No complaints were raised against these decisions since it was clearly the runners mistake and the markings of the mandatory route were very clear.

T. Relay**Summary**

Weather	Sunshine, cold with ~10°C. Slight wind.
Arena	circular with a spectator control in the N, a mandatory route with a control on a man-made platform in the E and the last control in the SW with the finish shoot looping in on the south side of the arena. The mandatory route to the start was on the West side.
Map	Nguluway, 1:10'000, 5 m contour interval
Max Time	4 hours per team

Results Men

Distance	7.0 – 7.1 km					
Climb	295 - 335	4.2 – 4.7%				
Controls	18					
Mass start	09:30					
Positions 1 to 3:	1	Stepan	KODEKA	CZE 1	43:30	129:47
		Jan	BENES		43:40	
		Adam	CHROMY		42:35	
	2	Torgeir	NORBECHE	NOR 1	44:54	130:57
		Magne	DAELI		43:16	
		Olav	LUNDANES		42:46	
	3	Mikus	ZAGATA	LAT	43:31	134:30
		Kalvis	MIHAILOVS		46:06	
		Anatolijs	TARASOVS		44:52	
Slowest time	26			CHN		268:27
Miss punched	1					
No of teams	42					
Placed teams	26					
Mixed teams	3					
Disqualified	1					
Ties of 2 runners	0					

Results Women

Distance	4.4 – 4.6 km					
Climb	200 – 225	4.4 – 4.9%				
Controls	13 – 14					
Mass start	09:45					
Positions 1 to 3:		Kine				
	1	Hallan	STEIWAR	NOR 1	34:34	101:49
		Silje	JAHREN		33:15	
		Siri	ULVESTAD		33:59	
	2	Eva	SVENSSON	SWE 1	33:58	101:49
		Sara	ESKILSSON		34:06	
		Jenny	LÖNKVIST		33:44	
	3	Sara	WÜRMLI	SUI 1	34:39	103:05
		Judith	WYDER		35:06	
		Sabine	HAUSWIRTH		33:19	
Slowest time	19			JPN		175:22
Miss punched	2					
No of teams	31					
Placed teams	19					
Mixed teams	3					
Did not finish	2					
Ties of 2 runners	1					

The arena was very nice and since the action happened 'clockwise' it was easy to follow the race. The mass starts were organized out of the arena and the space used was opened for the spectators after the second start. There was one mass start for 4 remaining runners at 12:10 (2:40 after the men mass start and 2:25 after the women mass start).

No special pre-warning has been organized since the runners were visible at the mandatory route through the arena about 1.4 km for the men and 1 km for the women before the finish. They were also visible when they approached the last control and during the full 200 m finish shoot over an open paddock.

The women's race was very close. The two runners past each other several times during the finish shoot. They crossed the finish with one interrupt of the light beam (i.e. equal time) but it was clearly

visible for everybody that the Norwegian girl was ahead of the Swedish runner. The organizers had a judge on the finish line who was responsible to decide which runner crossed the line first.

For both men and women 9 different courses (2 forks with 3 combinations each) resulting in 36 distinct combinations over the 3 legs have been set. Course combinations were done outside of Sportsoftware in Microsoft Excel. The teams were assigned according to the last JWOC (only placed teams) as specified in the IOF Competition Rules. The second teams and nations which did not participate in the last JWOC followed in alphabetical order after the set teams.

For the organizers the map exchange is one of the critical areas in a relay. The start crew was advised to never touch a map and only point in the general direction where the runners could pick up their maps. It is clearly the responsibility of the runners to take the correct map. The team at the map exchange needs the matrix of course combinations and at least one spare set of maps with all combinations at hand. When a map has to be exchanged (e.g. when a runner takes a wrong map) the combination for the start number has to be very carefully checked against the matrix and the combination code on the map.

U. Jury

The IOF rules commission nominated Hideo Onoe (JPN) and David Ales (CZE) into the jury. Unfortunately they were not able to nominate the third jury member. I was asked to nominate together with the organizers a third member, preferable a woman, from the team managers. In the first Team Leader's Meeting we asked for volunteers. Unfortunately no woman was willing to do this job. Lars Lindstrøm (DEN) volunteered and was elected by the team leaders.

Jury meetings were planned immediately following each Team Leader's Meeting and 30 minutes before each medal ceremony in the corresponding competition arena.

During all of JWOC2007 there were no complaints and protests. The two disqualifications in the middle distance final race were accepted by the runners without complaints. They did not follow the mandatory route through the arena from the spectator control. The disqualification in the men's relay was also accepted because one of the runners took the wrong map from the cloth line.

V. Controlling

I had a very good time in Australia and enjoyed the work with the organizers over the last 2.5 years. The IOF restricted the number of travels to a maximum of two. Therefore, I visited for ~2 weeks in May 2006 and for 2 weeks immediately before and during JWOC2007.

During the first visit I was able to attend a course planner's weekend in Dubbo where I met all course planners and controls plus the two mappers. There was also a committee meeting which I could attend. These initial personal contacts were very useful for the e-mail communication with the organizers because names could be associated with faces.

During the second visit I worked very closely with the national controller Christine Brown. In the first week we re-visited all control sites and checked all printed maps. We were also able to advise and assist the organizers during the setup of the arenas and start areas.

Since I did not have an assistant the role of Christine Brown was essential. She was not only able to do a lot of work before JWOC (e.g. first review of the courses, checking all control sites in the forest and chasing the organizing committee about various things). As indicated we worked very closely as a team to discuss issues and ideas and to check various parts of the organization (e.g. parallel checking of start and arena before the first starts). I would like to take this opportunity to thank Chris for the dedicated work, the support she gave me and the excellent team work. We had a very good time together.

After this first international role as event advisor I have a few personal thoughts which might be of general interest:

- I would have preferred a third visit about 6 months before JWOC to check the maps, courses and arenas. An ideal schedule of controlling visits could be:
2 years before: check and approve selected terrain and accommodations.
Meet with organizing committee.

- 1 year before: check maps and approve concepts for courses and arenas.
Meet with course planners and controllers.
- ½ year before: check and approve courses and arena layouts.
- In my opinion speaking the language of organizers is very important. I was able to read all communication without the necessity for somebody to summarize and translate important issues. Even more importantly I was able to talk to everybody of the organizers on site to give explanations, to answer questions, to give instructions, to give support and encouragement etc.

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