



WOC 2008
BY CEZ GROUP
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CZECH REPUBLIC



WOC 2008

Czech Republic

FINAL REPORT



WOC 2008

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1. Introduction

The 25th World Orienteering Championships took place in the Czech Republic from 10th to 20th July 2008. The City of Olomouc was the Event Centre.

The vision of the organisers was „WOC For All“, and this motto threaded through the entire organisation team and was successfully realised.

The Czech Orienteering Federation was awarded the organisation of WOC 2008 at the IOF General Assembly held in September 2004 in Sweden. The preparation work started at the same time. During the period that followed some members of the organising committee changed, some ideas had to be abandoned for external reasons such as lack of agreement with the forest owners or the nature protection authorities, and some other ideas had to be changed. The final concept was agreed in May 2007 and following this, the Championships were realised. TK Plus joined the team in July 2006, and this was a very important moment because this skilled marketing agency brought a financial guarantee for the entire event.

The WOC programme was published in accordance with IOF Rules in Bulletin 3, was described in detail in Bulletin 4 and took place as planned. It is included in this report as Appendix 3.

Members of 40 national teams (in all 335 competitors and 108 officials) took part. These are listed in Appendix 1.

WOC was carried out entirely according to IOF Rules.

Individual competitions took place in various types of terrain, namely sprint in an urban area, middle distance in terrain of mountainous character with rocky sections, long distance in terrain typical for central Europe with quite significant climbing, and the relay also in central European forest, featuring a lot of vegetation detail in some parts. The variety of terrain was reflected also in the variety of medallists - the 8 world champions were from 7 different countries, which moreover shows that currently there are runners from many countries competing at the top level.

Achieving high quality TV coverage, provided by Czech Television (ČT), the Czech public channel, was a big success for the WOC. ČT televised all the Final races, which were either offered live (8 hours in total) or from recordings (4 hours). All recordings were transmitted many times. The material created was used by other TV channels through the EBU network.

WOC was organised in accordance with IOF requests for a high technical and organisational level.



2. Results

Medallists

	Gold	Silver	Bronze
Sprint W	Anne Margarethe Hausken (NOR)	Minna Kauppi (FIN)	Helena Jansson (SWE)
Sprint M	Andrey Khramov (RUS)	Daniel Hubmann (SUI)	Martin Johansson (SWE)
Middle W	Minna Kauppi (FIN)	Vroni König-Salmi (SUI)	Radka Brožková (CZE)
Middle M	Thierry Gueorgiou (FRA)	Michal Smola (CZE)	Valentin Novikov (RUS)
Long W	Dana Brožková (CZE)	Marianne Andersen (NOR)	Annika Billstam (SWE)
Long M	Daniel Hubmann (SUI)	Anders Nordberg (NOR)	François Gonon (FRA)
Relay W	FIN (Katri Lindeqvist, Merja Rantanen, Minna Kauppi)	RUS (Galina Vinogradova, Yulia Novikova, Tatiana Ryabkina)	SWE (Annika Billstam, Sofie Johansson, Helena Jansson)
Relay M	GBR (Graham Gristwood, Jon Duncan, Jamie Stevenson)	RUS (Dmitriy Tsvetkov, Andrey Khramov, Valentin Novikov)	SUI (Baptiste Rollier, Matthias Merz, Daniel Hubmann)

Full results of all events can be found in Appendix 4. Detailed results including split times can be found at <http://www.woc2008.cz>.







3. Organising Committee

WOC 2008 was organised by the Czech Orienteering Federation (ČSOB) in co-operation with the marketing agency TK Plus, local orienteering clubs from the Olomouc region and numerous volunteers from the entire Czech Republic.

ČSOB appointed an Organising Committee for the control and management of WOC. During the preparation stages the Committee membership changed a few times for a variety of reasons, and at the final stage its members were as follows:

Pavel Sekanina	Chairman
Petr Klimpl	Executive Vice-chairman
Radan Kamenický	Vice-chairman
Vladimír Šimíček	Vice-chairman
Josef Váňa	Vice-Chairman & Marketing Manager
David Aleš	Event Director
Ivan Matějů	Financial Director
Vojtěch Hála	Member of Olomouc Council
Vlastimil Uchytíl	Member of Prostějov Council
Petr Kadeřávek	Media Director
Robert Zdráhal	Director of organizational section
Jindřich Smička	Director of Public Events
Miloš Rychlý	Director of WTOC 2008
Marek Petřivalský	Secretary

The Chairman of the Organising Committee, Pavel Sekanina, and also the Olomouc region Vice-marshal provided public support to the Organising Committee, which was actually directed by Petr Klimpl.

The Organising Committee held regular meetings, and decided various issues concerning the overall concept of WOC as well as matters which crossed between more than one section. Individual sections were further structured into sub-sections. More than any other, the Event Direction Section was very complex, and its sub-sections worked independently under the leadership of leaders of specific individual divisions.





4. Workforce

To a very large extent, WOC 2008 was organised by volunteers.

Paid work in the preparation stage, apart from mapping work, included:

Haná orienteering s.r.o.	works of an organising nature	around 25 hrs. monthly	2005 - 2008
Event Director David Aleš	works of a technical nature	around 20 hrs. monthly	2007
		around 50 hrs. monthly	2008
Jan Skříčka	design of arenas, TV production	around 10 hrs. monthly	2007 - 2008

Other preparation work, the realisation of WOC itself, and work after WOC was done by volunteers. Volunteers registered gradually until their numbers reached the desired level. In the end a workforce of 325 was involved in the WOC organisation, most of them coming from clubs based in the region where WOC was held (Hanácká region - around Olomouc), but also a lot of people from other parts of the country as well as a couple of individuals from abroad came to help.

Provision of materials by the Czech Republic Army was of great help. The Army also provided personnel to operate their equipment. All in all, the Czech Army contributed 42 people to the WOC organisation.

TV coverage was carried out by 72 employees of Czech TV, with other companies providing technical support.

In the arenas, employees of many other external companies, which were contracted to provide specialised facilities, were involved. These concerned for example the large screens in the arenas, audio coverage of the arenas, installation of adverts, catering etc.

Overview of workforce in particular sections

Organizing Committee	14
Section of Executive Vice-chairman	19
Organising section, Event Office	17
Technical section	204
- arenas	49
- finish	17
- guarding of controls	40
- IT	25
- parking	22
- arena design	9
- setting out controls	17
- start	16
- Event Director division	9
Marketing	16
Media Centre	13
Public races	42
TOTAL	325

5. Bulletins

In accordance with IOF Rules, four bulletins were issued:

11th August 2006	Bulletin 1
14th August 2007	Bulletin 2
7th May 2008	Bulletin 3
9th July 2008	Bulletin 4

Bulletins were sent to all IOF member countries and were published on the WOC website. The content of all bulletins was as required by IOF Rules.

6. WOC organisation

Main Vision

The main vision „WOC FOR ALL“ went through the entire organisation and was successfully fulfilled.



WOC 2008

WOC Centre

The Centre in the university campus at Olomouc-Neředín was offered in the manner of an „Olympic village“, with all the necessary facilities located close to each other (within 200 m). This gave the active WOC participants good opportunities for meeting each other, no matter which team they belonged to.

In the WOC central building the Event Office, the room for team leaders' meetings, the Media Centre and a few rooms for individual teams' meetings were located.

The Neředín college area could accommodate in total 500 persons, including board provided in the university canteen.

Accommodation and board

All but just four teams were accommodated in the newly renovated Neředín college area. Accommodation was offered at the price of 16 EUR per person per day, and board for 17 EUR per day. The level of this accommodation was appropriate for the importance of this sporting event, and no complaints were received about it. Board was provided in the canteen on the campus area and as field catering in the arenas. During WOC there were some complaints about the similarity of the food from day to day, together with requests for choice from a larger assortment of dishes.

Transport

The offer of organised transport, as required by IOF rules, was utilised by no more than 23 competitors. Most of the teams used their own means of transport. For those, detailed information on the approach routes to the competition arenas was given in Bulletin 4. Compulsory transport was organised from parking to pre-start at the Middle Qualification race and from quarantine to pre-start at the Middle Final race.

7. Training camps and stays

The aim of training camps and stays in the Czech Republic was to offer all teams the same conditions for familiarisation with terrain relevant for WOC and to show the Czech style of mapping. In Bulletins 1 and then 2 the overview of training opportunities and maps was set out in increasing detail.

Training activities were divided into several kinds:

- a) official training camps
- b) individual training for particular teams
- c) selling of maps and files to teams
- d) selection races
- e) training races

a) Official training camps

1st training camp (8-14 October 2007) - with the centre in the northern part of the region decided for WOC. Training was provided by the Organisers mainly in terrain similar to that for the middle and long distance races. A training camp competition, Czech meeting, was organised for participants in the terrain relevant for middle distance. In addition to 10 participating national teams, a few individual runners from different countries took part. The organisation of this training camp was undertaken by Haná Orienteering.

2nd training camp (1-4 May 2008) - with the centre in the eastern part of the region decided for WOC. Four measured training exercises were prepared - a sprint, 2 x middle and a long distance in terrain similar to that for WOC. There was also an offer of additional training possibilities. 8 national teams took part in this camp. The organisation was done by Sokol Vizovice.



b) Individual training for particular teams

Teams had the opportunity to accept an offer of prepared training from the WOC Organisers, but they could also negotiate it individually with O-clubs from Moravia. During the preparations for WOC many (about 15) orienteering countries, especially the strong ones, took up the offer of prepared training in the years 2006-2008.

c) Selling of maps and OCD files

There was an WOC internet site reference in the Bulletins where details of relevant maps for WOC were published:

sprint - Brno, Prostějov - Olomoucké předměstí

middle - Pohledecká skála, Řasník, Ruský hřbitov, Arnulf, Svatá Marta, Ledkova huť

long + relay - Škatulec, V Jeřábcech, Helišová skála, Helfštýn

The majority of teams preparing for WOC in the Czech Republic have used this opportunity.

d) Selection races

In June, approximately 14 days before the beginning of WOC 2008 in Olomouc, a complete set of selection races was organized - sprint, 2 x middle, and 2 x long distance. The Czech Republic, Finland and Sweden took part in them. Australia, Switzerland, Slovakia and some individual runners from other countries also participated, but just as training.

e) Training races

Many orienteering events took place in the Czech Republic during the period prior to WOC in which individual national teams took part in order to become familiar with Czech terrain and the style of mapping and course planning. The 2007 National Championship in long distance, the Moravian Open Championship (April 2008) and the Central Moravian Grand Prix 2008 (beginning of July 2008) enjoyed the highest participation levels.

8. Maps

Selection of areas, negotiations with owners

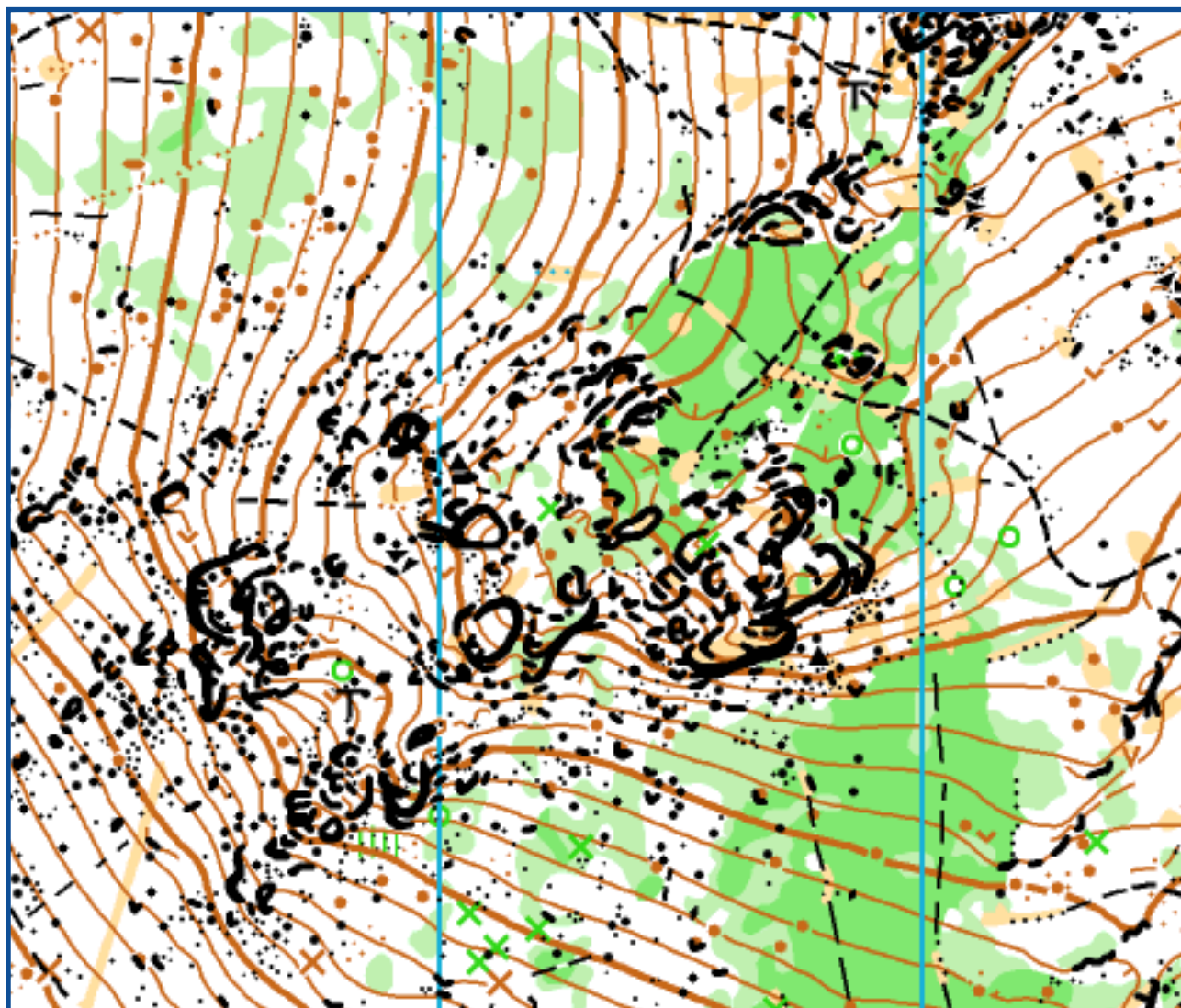
In the summer of 2004, immediately after being awarded the organisation of WOC 2008, preparation of areas for the competition began. The base for this was ideas presented in the application for organising WOC 2008. Negotiation of permissions to hold races in possible areas lasted nearly all of 2005. Some of the originally selected areas then had to be changed, because of the owners and authorities of nature protection who did not allow the organisation of WOC in these areas, and in some cases also the type of race had to be changed. Due to great dissatisfaction with the quality of Dalov (originally to be used for the Long Final and Relay, and in the end used for the Long Qualification) mapping there was stopped in autumn 2006. Selection, negotiation and approval of the other suitable area for the Long Final and Relay then lasted until May 2007. The area to be chosen for the Sprint Qualification was also still under consideration; there were many possible alternatives for this race for a long time. The same was true for some of the Model Event areas.

Team of cartographers, work schedule

The team of cartographers for WOC 2008 was appointed in January 2005. The aim was to appoint smallest possible group of people with similar mapping style, in order to make consistent maps for all WOC events and to avoid differences within one map. The first deadline for completing all maps for WOC was one year before the competition (July 2007). However, the schedule was dramatically changed because of the change of choice of

Areas of maps used for WOC

• sprint F + model	1.0 km ²
• sprint Q	1.1 km ²
• middle Q + F	7.7 km ²
• model middle	0.5 km ²
• long Q + model long Q	9.6 km ²
• long F + relay	14.4 km ²
• model long F + relay	1.7 km ²
• TOTAL	36.0 km ²
Reserve maps	
• long F reserve	9.2 km ²
• middle reserve	3.0 km ²



areas. Due to this fact the majority of work on the maps had to be done during the final year before WOC. Mapping in 2005-2008 was

done by Petr Hranička (head of the team), Zdeněk Lenhart and Petr Mareček. Roman Horký joined them, because of the un-manageable amount of work, at the end of 2007 and the beginning of 2008. All these cartographers were paid for their work according to contracts with the Organiser of WOC (ČSOB) and the pre-financing was done from ČSOB's own sources.

The mapping process

First work on the maps waited after the long negotiations on permissions for the areas were finalized in November 2005. Base national maps at 1:10000 (contour detail and partially also topography) and orthophotos (definition 50cm/pix) were used as the source materials for mapping, despite the existence of old O-maps of the areas. These old maps were of poor quality (apart from the maps for sprint, but these maps also had to be re-mapped into ISSOM2007). Because of the interruption to the mapping in spring 2007, the maps for WOC were finished at the turn of the year 2007 instead of July 2007. Then in spring 2008 some small jobs to finish the edges of the maps (+ adaptation of model areas) were done. This time was also given to up-dating all the maps by a cross-working method (where no cartographer did the up-dating of a part which he had mapped), and to corrections of the maps (content and drawing style) on the basis of discussions with course planners, IOF Controllers and the IOF Map Commission. All maps were made in OCAD8 and the last corrections were then done in OCAD9.

Printing of the maps



To ensure the highest quality of printed maps, all competition maps were printed by a double-printing process on a five-colour offset machine. Four-colour printing (CMYK) first printed the surround (frame) of the map with logos and advertisements. Then the second five-colour printing with the exact IOF colours for maps was undertaken for the printed map itself. Courses were then directly printed onto those maps, always in sufficient quantity in case of any kind of problem. The courses for Relay (specific legs) were printed on the offset-printed maps using a colour photocopier, done three times in order to get the best register of map and course and also for reserve. Matt and coated paper G-print 135 g/m² was used as the material for printing the maps. In addition to the printed maps, different data forms of the maps were also prepared in order to publish them on the WOC website, for TV projection and for accredited journalists. All maps for WOC were printed by Ivo Novák - ŽAKET Prague based company. The printing of the Relay courses was done by the firm Nord Service from Opava. All the printing was done to a very good quality.

Maps for Public events

Maps from WOC (2 stages), parts of maps from national events in 2007 (updated in 2008, 2 stages), and updated older maps (2001, 1993) were used. A few other Czech cartographers participated in making these maps. The maps were printed just by CMYK+B (offset) technology. The style of mapping was more Czech, and usually they differed considerably from the style of mapping for WOC as demanded by IOF.

9. Terrain and course planning

Specific races took place in different types of terrain:

- sprint urban area and park (during the races, the competition area was closed for traffic)
- middle mountainous terrain (750 - 850 m above sea level) with stony areas and a section with many rocks and a surface difficult to run on, as is typical for mountainous terrain
- long and relay terrain typical of central Europe, with large amounts of climbing and rich in vegetation detail

The skilled former Czech team runner and coach Jaroslav Kačmarčík was appointed as Course Planner for the WOC races. Josef Hubáček, also former national team runner and coach, acted as his assistant. The Course Planners consulted also with Jan Skříčka, Arena Chief and in charge of TV coverage design and projection.

Course planning by only one person ensured continuity, but was demanding for him. All final courses were tested not only by the course planners themselves, but also by some Czech elite runners (those who were not in line to take part in WOC or the selection races). Based on these tests, courses were adjusted to provide the final result.

Cooperation with TV influenced the shape of some courses or events quite strongly. Live coverage was agreed for the Sprint and Middle Finals and the Relay. The Long Final was broadcast later from recordings. Live coverage of all these races was provided on the large screen in the arenas. To ensure all that, the courses of all Final races and the Relay had to be adapted to the requests of Czech TV, which produced the coverage.

Courses did, however, fulfil the criteria of IOF requirements. In the Long Final only, prescribed winners' times were exceeded slightly. In all other races the planned result times were achieved.

Runners in the Middle and Long Finals and on the Relay third leg were fitted with GPS/GPRS equipment provided by TracTrac, to transmit their real-time position. Their route choices could be watched live both in the arena and on the website.

The route choices can be still found on <http://www.tracrac.com/?page=woc2008>, and also in animated form on <http://www.woc2008.cz/anim/middle/index.htm>, <http://www.woc2008.cz/anim/sprint/index.htm>, or on <http://www.woc2008.cz/anim/long/index.htm>.

Every competitor was also asked to draw his/her route choices at the finish. Interesting situations were identified and an analysis produced, both being published in WOC News and WOC Info.



10. IT

Controls and SI cards

SportIdent technology - active control, passive card - was used. Controls were financed by a state grant from the Czech Ministry of Education, Youth and Sport. SI cards were borrowed from their producer. Functionality of controls was tested during the Czech national championships held during the spring. SI cards were delivered before WOC and tested during the technical model event.

Hardware

The IT section at WOC utilized 20 notebooks, of which four were used for direct processing of results, one for showing this information on the results screen in the arena, two for on-line information transfer to the internet (split times and on-line text commentary). Another two notebooks were used by speakers in the arenas, 2-4 for TV speakers, one for communication with the Event Office, one for digitalising the route choices, and three for control of photocells and start gates. The rest were held as reserve. Easy carriage and independence from electricity supply are obvious advantages of notebooks. Other equipment, such as for example switches or routers, were supplied via UPS to ensure they continued to function in case of any supply interruption.

Time measurement

The equipment used for time measurement was ALGE Timing (measuring devices, photocells, start gates), MICROGA-TE (start gates) and Sportident (SI sprint station).

Software

Czech software OB2000 was used for processing of results after being successfully utilised a few times before at other international events including WOC in MTBO in 2007. Software RS232 Data Logger (made by Eltima Software) was used for processing the output of Finish photocells.

On-line split times were published by OrienteeringResultsOnline, which was used also for projection to the large screen in the arena.

Results processing

In accordance with the standards required by IOF, information from SI cards was downloaded to two independent systems. Both primary and back-up measuring used the same configuration, but on independent computers. In the end it was never necessary to utilise the back-up system during this WOC.

Measuring equipment (start gates and target photocell) provided times with accuracy to 0.0001s. Difference of times given by these devices gave the result time. The latter was cut to separate full seconds, or to tenths of seconds in the case of the Sprint Final. Split times between controls were measured with an accuracy of 0.1s.

Time processing

At all races, starting of competitors was recorded by start gates (qualification races needed three sets). Split times from the terrain were transmitted by equipment provided by Racom and updated every second, both for arena speakers and TV speakers. After competitors had downloaded the contents of their SI card, any information on incorrect punching was available within 15 seconds. Finish times were measured by a photocell provided by ALGE. Differences in recorded times were at an insignificant level all the time.

The start numbers of competitors crossing the finish line had to be re-written manually in the right order.

Back-up measurement was connected to the described system by means of a converter and double link. As another back-up, the manual measurement system ALGE S4 connected to a P4 printer was also used.

Furthermore, each competitor's finish was recorded from two different locations by cameras and saved to hard disc, to be available in case of any subsequent protest about the results. When an impulse was received, every measuring device not only transmitted the data onward, but also printed it to a tape which was regularly checked by the IOF



Advisor's IT assistant.

Time synchronising of IT devices

Time synchronising was provided by a DCF77 signal from the Frankfurt-based transmitter and received by ASC1 starting clocks. From the latter clocks, all other measuring devices got started up automatically in sequence. After each race the synchronising was checked and found never to be more than 0.01s out.

Internet coverage

Sprint - Qualification and Final: Internet connection was provided by Telefónica O2 using ADSL, distributed by UTP cables to the Finish area and Media Centre. In the Finish area, online split times transfer and online text commentary was connected. Internet worked without problem, with a speed of at least 4 Mbps.

Long - Qualification: Internet connection was provided using five CDMA modems, two of them for online information transfer to the website (split times, text commentary), one for information passing between source and the Event Office, and two for the Media Centre. The connection worked well, at a speed of 500 - 900 Kbps.

Middle - Qualification, Final: Again using 5 CDMA modems, the same as at the Long Qualification, but with the difference that only one modem was allocated to information for the website and the other one for connection of TracTrac. Serious problems with the signal were encountered, which got even worse during the day when unfavourable weather conditions (low clouds) also contributed to the problem. The signal was thus very weak, and occasionally the speed fell as low as tens of bits per second, which actually put some services, such as the connection for the media, out of action.

Long Final and Relay: Connection through local WiFi network at a speed of at least 3 Mbps, without any problem.

Transmission of Results

During each race online information was transferred to the website, namely runners' elapsed times from radio controls and the Finish, and text commentary. Audio/Video streaming was not offered because most of the races were covered online by Czech TV - which could be viewed on their website - and furthermore the necessary hardware requirement and internet connection would have been large and very costly.



TracTrac

The Middle Final and Long Final as well as the last legs of the Relay were tracked using GPS/GPRS modems by the Danish company TracTrac. A GPS module of this system determines the real-time position of the runner using satellites, and sends the information to the server using a GPRS modem. On the server the data was analysed and TracTrac specialists put the information onto the map, which appeared on the Czech TV broadcasts. TV viewers could thus see route choices on the map in real time.

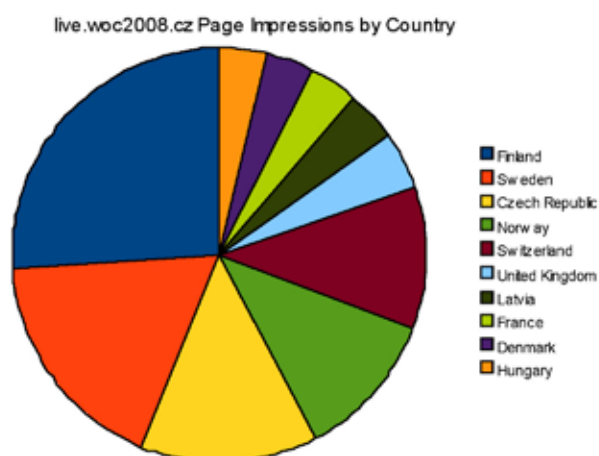
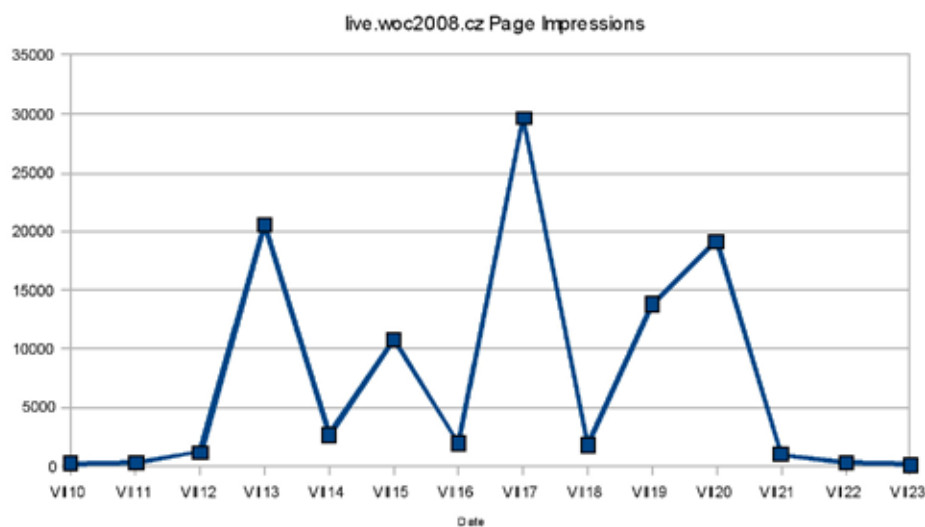
Because the number of active modules was not sufficient for all competitors, some competitors wore dummies of the same dimensions and weight, to provide equal conditions for all. Competitors did not actually know whether they were wearing a working module or not.

Web server

Apart from online results ('WOC Online Centre'), the web server facility was entirely provided by a shared virtual server hosted at Active24. This solution proved to be adequate, with no problems reported during the entire WOC.

Because of the expected high interest level, a dedicated server was hired from Master Internet for the provision of online results. These were worked out using OrienteeringResultsOnline software. This ran on a PC in the competition arena, where data from radio controls and from the Finish was transformed into preliminary results. The dedicated web server was slightly under-dimensioned and a few occasions with over-long response time were reported, but thanks to the immediate reaction of the administrator and the necessary increase in allocated memory, the server worked thereafter at full satisfaction.

Access levels on the website with online elapsed times





IT for media

A separate room or tent was prepared for the media in each arena with two WiFi supplied access points for internet provision. Complaints of quality or speed of connection were noted only during the Middle races. Apart from that, the internet connection was available from the beginning of each race and disconnected when the last journalist left (up to two hours after the race finished).

Internet connection was also provided in the Media Centre located in the Event Centre in Olomouc-Neředín, with an adequate number of connected computers and quality connection, through both fixed connection and WiFi. A printer and scanner were also available here, the latter utilised also by the Organisers for scanning route choices to present them on the WOC website.

11. Arenas

Design

The basic initial concept for the design of the WOC arenas was that they should meet the needs of spectators to the greatest extent possible. It meant creation of a layout where spectators would have the maximum possible overview of what was happening on the course, which they would watch either on the big screen or in the race corridors in the arena directly.

Because the priority was the choice of quality terrain for the WOC races, the choice of particular arenas had to be secondary to the choice of terrain. Areas were chosen for arenas which were accessible for vehicles and offered a large enough area.

Because most of the arenas were sited on large meadows, it was necessary to define limits for the space for spectators so that the arenas would look as compact as possible. Thus there was the question of how much such space would be needed. There is no advanced reservation of tickets for watching WOC, and not all spectators take part in the public races, so it is difficult to predict how many spectators will be present. The arena for the Middle Distance races was distinctly too big for this reason (moreover it was a Thursday, a working day), but the space reserved in the other arenas was about right for the numbers that came. Because almost all the arenas were located on a slight slope or on flat land, it was necessary to keep the race corridors and competitors well apart from the spectators, so that the former wouldn't be hidden in crowds. The last controls and spectator controls were also placed some distance from spectator areas so as to leave them visible for almost everyone in the arena.

The only exception to this general picture was the arena for the Sprint Final in the centre of Olomouc, where the urban environment created limitations in the space available for the arena and in its design. Here we tried to design the arena as much as possible to fit into the historical environment of the town, and let the latter and its fine architectural detail dominate, but simultaneously still plan it with the needs of spectators uppermost. In the end the plan wasn't fully realised, because the temporary removal of part of the summer garden - which in fact was agreed in advance - was not done. As a result, the last control was visible only on the TV screen for the majority of spectators. But bearing in mind the very complex logistics of the organisation of a sprint competition in a city area, this could be considered just a minor drawback in an otherwise successful occasion.

Issues such as the location of refreshment tents also had to be borne in mind, so that they were easily accessible by spectators whilst still giving a good overview of what was happening in the arena. It was only at the Middle arena that this target wasn't met, because of its large area, which caused the refreshment facilities to be further away from the Finish corridor and large screen than was desirable.

In the end we decided not to ask for an entrance fee into the arenas, because it appeared to be unreasonable from the very beginning of planning. We tried to partly cover such a fee by charging for parking and selling WOC News.

The outline plan of all the arenas was given to the course planner as a basis for his work, to which the planning of routes in the vicinity of the arenas was adjusted.



WOC 2008

The organisers' areas also had to be planned precisely, to fit all the necessary sections into the locations where they needed to be and yet would not disturb each other. These sections included the time-keepers, speakers, journalists, doping control, route choice drawing by competitors and facilities for the teams.

Drawings of all Final arenas can be seen in appendix nr. 6.

Building Of Arenas

Each Final arena contained a large screen showing coverage from cameras located in the forest and around the arena, rapid results display facility, large results display board, finish area, space for teams, catering for competitors as well as for spectators, booths for selling sports equipment and various information panels.

The building of the arenas was the responsibility of a team of 50 Organisers supported by members of the Czech Army, and up to 50 more Organisers could have been asked for help in case of need. All in all, the following arenas were built:

Sprint Q - Prostějov, in an area beside ZŠ Svobody school

Sprint F - Olomouc, Horní náměstí (Upper square)

Long Q - Dalov

Middle Q + F - Stará Ves u Rýmařova

Long F + Relay - Skřípov

From the logistics angle the most demanding were the arenas for sprints, because they both had to be made ready in a relatively short time in two different urban locations some way apart. In addition to the WOC arenas, assembly areas for the public races - the Orienteering Festival - had to be prepared, which amounted to three more separate arenas. The arenas for the Long Qualification, Middle and Long Final WOC races were utilised for public races as well.

Arena materials

Material for erecting the arenas was provided from various sources:

- a) as part of sponsorship - wooden fences and posts, some of the tents
- b) Czech Army - military tents for teams, showers, chairs and tables, vehicle for IT team
- c) borrowed - mobile toilets, metal fences
- d) from stores of individuals or o-clubs
- e) purchased - mostly small items such as stationery etc.

Result boards

At all WOC races a number of result boards were provided. The aim was to show the finish time of each competitor within one minute of his/her finish. This was achieved every time.

At the Sprint Final, both Middle races and the Long Final, two electronic result boards showed the result of the competitor immediately after his arrival. There was also a manual result board where the results of all finished competitors were permanently shown, and an information panel where both preliminary and overall results were published as printed on paper, as well as start lists and other bits of information provided mainly for spectators.

At the qualification races for Sprint and Long Distance and at the Relay only the manual result board and information panels were available. We had planned to use electronic board during the Relay as well, but it couldn't be used because of technical failure.

Speaker service

Top-level commentary was provided at all WOC races. The Organisers contracted for this task the skilled and experienced Norwegian speaker Jørn Sundby, who spoke in English and occasionally also German, Swedish and Norwegian. At the Sprint Final and prize-giving ceremonies, Czech commentary was provided by Štěpán Škorpil, a professional TV speaker, and at other races by Petr Žaloudek, supported by Tomáš Kalenský, both orienteers with commentary experience from national events. They also had a couple of assistants.



The speakers could utilise split times and finish times, which were transferred to displays and computers at their workplace, as well as TracTrac output, coverage from TV cameras located in the forest and other information from the forest. Equipment for the speakers consisted of two PCs with large display screens, one wide-angle TV and two microphones.

Sound

The sound distribution system in the arenas was supplied by a professional company, and was provided at top level all the time. The same company also provided sound for the opening, closing and prize-giving ceremonies.

Sound distribution in the arenas was designed to cover the entire arena area. The aim was to offer quality service for spectators, competitors and coaches.



12. Spectators

Estimated numbers of spectators at each race:

Sprint qualification	Prostějov	2 000 spectators
Sprint final	Olomouc	4 800 spectators
Long qualification	Dalov	2 400 spectators
Middle qualification	Stará Ves	1 600 spectators
Middle final	Stará Ves	2 800 spectators
Long final	Skřípov	4 600 spectators
Relay	Skřípov	3 700 spectators

Since no entrance fee was charged, it is not possible to state the number of spectators exactly. The numbers were estimated, based on the numbers of cars and buses, a visual impression of how much the arena was filled, etc.

Spectators were given quality conditions for watching the races.

13. TV coverage

Planning and realisation of WOC 2008 TV coverage

The basic idea and plan for the broadcasts from the WOC events was to present orienteering to TV viewers in the easiest and most understandable way - as a sport very similar to something which they were familiar with. As a suitable target, similarity with cross-country skiing races with interval start was identified. A further goal was to incorporate the navigation element of orienteering into the broadcasts, in particular the map - this was achieved only at the Sprint race.

We also tried to include in the TV coverage all aspects of our sport, through choice of really extreme locations and places where runners could be seen moving fast through the forest, by showing the high physical demands of our sport, and including some aspects of navigation where possible.

Another idea we tried to follow was to show orienteering as a sport where the competitor runs from one specific point to another - not just from nowhere to the control and again on to nowhere, as has been the case with a lot of TV coverage in the past.

We also decided to use a small number of locations on each course, but with the longest possible camera viewing



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ranges, so that when noteworthy pictures were appearing at different locations at the same time, the director would have the opportunity and enough time to show as much of what was happening on the course as possible. To give a better overview for the director we also used „pre-warning radio controls“, which were located not more than one minute before the runner appeared in the section covered by a TV camera. The director was thus informed who was approaching and the cameraman could be prepared accordingly.

The technical connection to the broadcast vans turned out to be difficult, since in many cases 3 - 5 km length of optical cables were needed, requiring a real effort by the 20 technicians of Telefonica O2 who provided the technology for transferring the signal.

Coverage of the WOC events revealed that orienteering can be a really exciting and dramatic sport, as attractive as other sports. Problems which remain are the too-long start interval in the Middle race - 2 minutes is still too much for TV - and running the men's and women's Long races parallel to each other. The latter created a lot of confusion in the information flow, difficult not only for TV viewers but also for the staff creating the coverage. In general, the time span of the Long race - 4 hours - makes this format far less suitable for modern TV coverage.

The Relay race is also difficult to portray adequately. Due to the present-day expectations of TV viewers, its coverage is very problematic. This format is difficult to explain clearly on TV because of forking, and it is difficult to provide enough pictures to attract the viewer and keep his attention. In spite of the fact that 30 camera sites were used, there were still 14-15 minutes on each leg with no active TV picture, which is really sad!!! Even with the use of TracTrac, so much idle time without pictures is unsustainable. Although the Organisers, in cooperation with TV staff, solved the situation partly by offering a mixture of earlier recordings and live coverage, there were still around 10 minutes of time on the last leg which had to be filled with interviews and similar padding.

Graphics and other information were given extra emphasis during broadcasting. 3D animations of routes, descriptions of the terrain, elevation profiles, climatic conditions and such like - all these were included. The graphic pattern of time-related information was - both in quality and content - as similar as possible to current standards for coverage of biathlon or cross-country skiing, to show the viewer that orienteering is organised at a professional level, and also to make it as easy as possible for the viewer to follow the action.

Location of TV cameras during Sprint Final race is included in this report as Appendix 5.

Provision of TV coverage

TV coverage was provided by the sports section of Czech TV (ČT) and governed by the „Treaty on the supply of TV rights and provision of TV broadcasting“, a contract negotiated between members of the Czech Orienteering Federation (ČSOB) and ČT. ČT produced the signal at all the Final races, and this was either broadcast live or recorded for transmission in the evening on the ČT's sports channel (ČT4). Through the EBU network it was offered to TV stations from abroad - stations in Finland, Sweden, Denmark, Norway and Switzerland utilised this. During the races, the TV signal was also shown on the large screen in the arenas.

The ČT crew was made up of 72 persons working full-time. They had three broadcast vans at their disposal, and 18-20 cameras were in use at each race. Because of the complexity of the terrain it was necessary to lay 3 - 5 km of optical cable between the broadcast vans to provide for transfer of pictures, sound and data. Cameras were located on strategic sections of the courses and in the Finish arenas, and for their connection to the broadcast vans more than 10 km of special cables were necessary. Some camera positions were doubled to enable coverage of the entire route - for example at the Relay, with three different legs. During production of the signal, the TV crew co-operated with AKI Sport, which provided the graphics of information, symbols etc., and with Racom, which ensured transfer of data from controls to speakers. TracTrac was also utilised, helping to clarify the live coverage - through monitoring of specific competitors in the forest, followed by transformation of their route choices into TV graphics on the real map of the race. During the preparation stage, the terrain for each race was visited six times, and the Czech Championships in Sprint, which took place one month before WOC, served as a rehearsal for the TV coverage.

The personnel in this project most worthy of mention are: ČT team - director: K. Jonák; production: J. Bauer; main



cameraman: P. Brynych; author of entire TV project: P. Sopoušek; speakers: P. Kubásek (ČT) and R. Ropek (former elite orienteering runner); and from the Organisers' side - co-ordinator with Organising Committee: I. Matějů; design of arenas with regard to TV coverage: J. Skříčka.

14. Media

115 media representatives registered in the Media Centre, 67 of those from abroad. All in all, 19 countries were represented, as follows: Australia (1), Belarus (1), Canada (1), China (1), Czech Republic (48), Denmark (3), Estonia (2), Finland (14), Germany (2), Hungary (1), Italy (2), Latvia (3), Norway (7), Poland (1), Russia (1), Spain (2), Sweden (7), Switzerland (16) and United Kingdom (2).

Dedicated zones for journalists only were provided to allow direct contact with competitors immediately after their finish. It was of course possible and quite normal to make interviews at a later time after their finish, by individual agreement between a journalist and a competitor, and no conflict was seen on this issue.

For each race photography zones were created alongside the Finish run-in and close to the Finish line. These areas had restricted access with special registration necessary for entry. The former was utilised only seldom while the latter was favourite, but its capacity was usually enough to cover the demand. However at the Long Final and Relay it was necessary from time to time to help ensure that everyone there had good working conditions.

As far as possible, the media were given the opportunity to photograph the medallists with their medals in the competition arena, rather than making them wait until the medal ceremony. This enabled journalists to send their reports and photos as early as at all possible, or at least by the deadline set by the newspaper/TV company that the journalist was working for.

In case of demand, photography at a control in the forest was offered during each race. The offer was taken up at the Long Qualification and Long Final and to a minor extent also during Middle Final and the Relay.

Media Centre

The main Media Centre was located in the administrative building of the Neředín campus area, where the Event Office was also situated. In the Media Centre, journalists were provided with all necessary information, start lists, and results and paper maps after each race, and it was possible to buy maps and routes in digital format on CD. Internet connection was available there,

as well as a printer and scanner. Journalists accommodated in the Neředín campus as well as anyone else, had an internet connection in their rooms as well.

A Media Centre was also set up in each arena. Above all the one at the Sprint Final, located in the historical setting of Olomouc's city hall, was evaluated very positively (one of the journalists even described it later in his article





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as the best Media Centre he had ever experienced at a WOC). Internet connection, large screen showing the live TV coverage placed directly in the hall, location right beside the last control as well as refreshment provision contributed to the full satisfaction of the media representatives.

The work of setting up the Media Centres in the other arenas was much more demanding. However it was usually achieved to a good standard, comparable to other WOCs, and with all the necessary services provided, with the exception of the Middle Final. Here the internet signal was already very weak during the Qualification races, and it failed altogether later due to inadequate technical equipment, in a location a little bit away from civilisation (and thus normally without any signal) combined with unfavourable weather (low clouds). Army tents were used at all the arena Media Centres, and journalists were provided with connection to electricity supply, internet (except for the instance described), opportunity to watch the live TV coverage on a large screen, start lists, results, maps, CD with maps and routes, information on opportunities to take photographs in the forest etc.

Press conferences

A number of press conferences were organised in the period before WOC for Czech journalists, in co-operation with TK Plus marketing agency and utilising their existing contacts with journalists. The first one was on 10th August 2007 in Prostějov, followed by one on 10th April 2008 in Prostějov and one before the WOC launch on 11th July 2008 in Olomouc. We considered having an introductory press conference for journalists coming from abroad on 12th July, the evening before the first race, but we decided in the end not to do this because most journalists were just arriving at that time and needed to sort out other necessary matters (and many arrived later, for the second half of the WOC period). Press conferences attended by the medallists were held at each Final race immediately after the medal or flower ceremony. Jørn Sundby, WOC Speaker, hosted all these conferences.

15. Ceremonies

The Opening Ceremony took place on Sunday 13th July at Horní náměstí (Upper square) in Olomouc, followed by the Sprint Final at the same location. All the Sprint race ceremonies took place there, i.e. in the competition arena. At the request of TV, the flower ceremonies were held immediately after each race was over, thus separately for women and men. The medal ceremony followed at the end, after the time required by IOF Rules for any protests had expired.

The flower ceremonies for the Middle and Long Finals were held immediately after these races were over. The medal ceremonies for both these competitions followed on Saturday 19th July, again at Horní náměstí in Olomouc, in conjunction with the prize-giving ceremony of the Orienteering Festival 2008.

The Relay was the very last race of WOC, thus its medal ceremony took place directly in the arena and was followed by the WOC Closing Ceremony.

Because it was requested by the media, photography of the medallists with medals was made possible immediately after the races (following the flower ceremony or press conference), in a place away from public view, although the competitors were actually presented with their medals later at the medal ceremonies.

The WOC Banquet was organised after the entire WOC competition programme was over, on the evening of Sunday 20th July, in Army Cultural House in the centre of Olomouc.

16. Medical care

Medical care was provided at a high level - one traumatologist, one cardiologist and an emergency vehicle were on stand-by in the arena, and a helicopter from the regular emergency service in Olomouc was also on stand-by. During WOC a number of minor injuries occurred and two of a serious nature, which were treated in accordance with standard sports medicine practice:



Long Audun Weltzien (NOR)
Relay Thierry Gueorgiou (FRA)

collapse from exhaustion
wasp bite in the area of the base of the tongue

After WOC the Organisers received letters of thanks from members of the French and Norwegian teams for the excellent provision of medical care for these competitors affected by these sad incidents.



17. Doping tests

Doping tests were organised during all Final races, on each occasion for 6 competitors, according to the instructions of the IOF Doping Commission.

Overview of doping controls organised:

Sprint Final	6 tests (EPO tests)	3 M and 3 W
Middle Distance Final	6 tests (Urine tests)	3 M and 3 W
Long Distance Final	6 tests (Urine tests)	3 M and 3 W
Relay	6 tests (Urine tests)	3 M and 3 W

Samples were taken by the Anti-doping Committee of the Czech Republic. Urine tests were analysed by MUDr. Růžena Šlechtová, in the doping test section of the Fakultní nemocnice (University hospital) in Prague. Analysis of the EPO tests was organised by the Czech Anti-doping Committee and provided by a laboratory in Krajse, Germany.

All tests had a negative result. 24 competitors from 14 countries were tested.

18. IOF Congress

During WOC 2008 the XXIV IOF Congress was organised. It took place in the town of Prostějov, 20 km from the WOC Event Centre. The General Assembly was held on 18th July 2008 in the congress hall of the Hotel Tennis Club, which belongs to TK Plus which provided WOC marketing. The IOF Congress was attended by 120 delegates and guests from



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40 member federations. On 16th July 2008, the same location hosted the Pre-General Assembly Seminar, where proposals put forward by the IOF Council and member federations for debate at the General Assembly were presented. In addition to the IOF Congress, a number of other meetings and seminars were organised between 12th and 19th July in the Hotel Tennis Club. These included the Conference of European federations' Presidents, a meeting of non-European federations and meetings of the IOF Council and its Commissions - Foot Orienteering Commission, Ski Orienteering Commission, IT Commission, Map Commission and Rules Commission.

85 delegates accredited just for the IOF Congress or meetings of particular Commissions; other participants in the Congress were registered as members of WOC teams.

The majority of delegates were accommodated directly in Hotel Tennis Club, the remainder in other hotels either in Prostějov or in Olomouc.

During the IOF Congress an exhibition of Czech orienteering history was displayed in the lounge of Hotel Tennis Club. As well as by orienteering guests, this was visited by the Czech Prime Minister, Mirek Topolánek, who was spending his private holiday there.

19. IOF/VIP/Media race

The traditional race for IOF delegates, VIP guests and media representatives took place on 16th July 2008 in the area of the golf club at Véska, after Day 2 of the World Trail Orienteering Championships had been completed there. This competition was attended by 92 persons (71 on the A course, 21 on the B course).

20. The Orienteering Festival 2008

As a part of the WOC 2008 an open international 6-days event called Orienteering Festival 2008 was organised by the Czech Orienteering Federation, assisted by the o-clubs KOB Konice and of Palacký University (SK UP), Olomouc.

The Event Centre was the Envelopa students' hostel in Olomouc, and all the races took place in terrain similar to that of WOC 2008, with two of them being held on the WOC 2008 mapped areas. The arenas for the various races were situated 10 to 60 km from the Event Centre.

Altogether 1,620 competitors from 34 countries on the continents of Europe, Asia, America and Australia took part in the event.

21. Control - Senior Event Adviser and National Controller

Senior Event Adviser	Unni Strand Karlsen, NOR (USK)
SEA Assistant	Henning Spjelkavik, NOR (HS)
National Controller	Dušan Vystavěl, CZE (DV)

Controlling Visits

No	Date	Venue	Participants	Note
1.	28.09.-01.10.2005	Olomouc	USK, DV	
2.	27.06.-01.07.2006	Olomouc	USK, DV	
3.	21.03.-23.03.2007	Prostějov	USK, DV	
4.	16.07.-20.07.2007	Prostějov	USK, HS, DV	
5.	30.09.-06.10.2007	Prostějov	USK, HS, DV	
6.	29.04.-03.05.2008	Prostějov	USK, HS, DV	



Working Parties

No	Date	Venue	Participants	Note
1.	19.-21.01.2007	Helsinki	USK, HS, DV	
2.	18.-20.01.2008	Helsinki	USK, HS, DV	+ Tomáš Rak (marketing)
3.	20.03.2008	Copenhagen	USK, HS	+ Jaroslav Kačmarčík (course-setter)

Objectives of the Visits and Subjects of the Working Parties

1st Visit:

- terrain - competition areas, reserve areas, areas recommended for training
- event centre, accommodation, catering
- event programme, event plan

2nd Visit:

- approving Bulletin 1
- responsible organisers, budget and event plan
- visits to planned arenas (layout of starts and finish arenas)
- TV coverage, arenas' production

3rd Visit:

- change of venue of long distance and relay race
- agreements with landowners and public authorities
- sponsorship - TK plus agency
- co-ordination with WTOC

4th Visit:

- further change of venue of long distance and relay race
- checking event maps, first concepts of courses
- approving event plan, approving Bulletin 2
- agreements with TK plus, Czech TV, agreements with land-owners, agreements with municipalities

5th Visit:

- detailed checking of courses
- checking the Event Centre, concept of transport
- layout of arenas
- checking of maps was delegated to Håvard Tveite – chairman of the IOF Map Commission

6th Visit:

- approving locations of starts, finishes and arenas
- meeting Czech TV representatives
- meeting all the decisive parties involved
- checking new draft courses
- approving Bulletin 3

Working Parties, Subjects

1st Working Party:

- checking the situation between the second and the third visits
- changes of venues, changes within the Organising Committee

2nd Working Party:

- checking the situation between the fifth and the sixth visits
- presentation of the WOC Plan and the main sponsor to the IOF Council and Commission members



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- interim checking of maps (H. Tveite), interim checking of courses – branching methods for long distance and relay race
- 3rd Working Party:
- co-ordination of the courses with TV coverage requirements

22. Publicity of WOC

Much attention was paid to WOC publicity. Posters were placed throughout all the WOC venues as well as in the Olomouc public transport; leaflets were inserted into regional and local newspapers.

Previews of the World Championships appeared in the regional newspapers (Právo, Sport, Olomoucký deník, Prostějovský večerník) before WOC; regular short announcements on regional radio drew attention to WOC during the week before its opening.

The WOC Programme was distributed to all the WOC participants and spectators; electronic WOC News was published before WOC, and a printed WOC Info was also issued during the Championships.

The Championships were covered quite a lot by Czech media - Czech TV, Czech Radio, all newspapers, and in particular by Aktualne.cz, one of the most visited Czech web portals.

23. Marketing

The Organisers (the Czech Orienteering Federation) acquired the full sponsorship rights from the IOF. As an associated Organiser, TK Plus marketing agency substantially contributed to the success of the whole Championships.

The main WOC sponsor was the ČEZ Group, the dominant Czech electricity producer and supplier. A number of other sponsorship deals were negotiated by TK Plus, and the long-term sponsors of the Czech Orienteering Federation were also involved.

Fulfilment of the agreements with the marketing partners contributed considerably to the economic success of the whole Championships.

24. Financial Report

WOC financing was guaranteed by the Czech Orienteering Federation (ČSOB) as the Organiser, and by its subsidiary "Česká orientační s.r.o." company, pursuant to a balanced budget approved, on the proposal from the Organising Committee, by the Czech Orienteering Federation Council. All the Championships' economic matters were administered by Ivan Matějů, the WOC 2008 Financial Director (and the ČSOB Secretary General).

Assets and liabilities both amounted to approx. 13.5 million CZK. The key factor in fund-raising and ensuring a smooth WOC organisation was the conclusion of the agreement with the Prostějov based "TK PLUS s.r.o." marketing agency, which is engaged in the domain of sport. The agreement covered the agency providing marketing and other services for the WOC; Josef Váňa, Commercial Director of TK Plus, was a member of the WOC Organising Committee.

The income was based on the following sources:

- National teams accreditation (2 mill. CZK)
- Payments for accommodation and catering (3.5 mill. CZK)
- Orienteering Festival entry fees (1 mill. CZK)
- Accreditation of delegates to IOF conferences (0.6 mill. CZK)
- Marketing activities and contributions from Government, regional and local authorities (6.1 mill. CZK)
- Other (0.3 mill. CZK)



The expenditure was as follows:

- Accommodation and catering (4.2 mill. CZK)
- Transport (0.6 mill. CZK)
- Technical provisions (1.7 mill. CZK)
- Maps, courses (1.3 mill. CZK)
- Financial Section - contracts and IOF levies (2.4 mill. CZK)
- Organising Section (0.85 mill. CZK)
- Media and Promotion Section (1.0 mill. CZK)
- Health Section, doping (0.25 mill. CZK)
- IOF Congress (0.7 mill. CZK)
- Other and taxes etc. (0.5 mill. CZK)

The Organisers regard the unexpected changes in the exchange rates (CZK vs. EUR), which were disadvantageous for them, as one of the most serious problems they have faced. They recommend that entry fees and payments for accommodation and catering are not fixed as far as one year ahead, or alternatively that a clause is inserted providing for a possible rise of 5 % in the event of an increase in prices or change in exchange rates.

Another item which is seen as a disproportionate burden on the budget is the high IOF levies; these amounts could have been used to provide even better technical provision at the competitions and services for WOC participants.

25. Recommendations

a) for the IOF

1. The organisers recommend not fixing entry fees and payments for accommodation and catering a year ahead (Bulletin 2) or alternatively appending a clause providing for a possible rise by 5 % in the event of an increase of prices or change in exchange rates.
2. Make full use of the knowledge and experience of the Czech TV personnel at future top o-events appointed to the Czech Republic.
3. Reconsider the necessity for high IOF levies which cause a disproportionate burden on the budget. These amounts could be used to provide even better technical provision at the competitions and services for WOC participants.
4. Give a clear interpretation of paragraph 12.7 of the IOF Competition Rules - publish the algorithm for drawing the starting order covering all possible variants.
5. Decide on principles for displaying maps and courses on big screens (as well as in live TV broadcasting and on the internet), especially during the relay race, in relation to ensuring even conditions and fair play in the competition.

b) for organisers of future top o-events in the Czech Republic

1. Establish an effective Organising Committee at the very beginning of preparations.
2. Do not change race venues less than 2 years before the date of the event. The selection of event areas must be comprehensive, taking into account all requirements, i.e. not only providing for good courses but also e.g. technical requirements of TV, of TracTrac etc.
3. Examine thoroughly all data transmission capability from the arena, also in the event of poor weather conditions.
4. Divide course planning between several persons.



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From: "Thierry GUEORGIOU" <thierry.gueorgiou@.....>

Date: 1. srpna 2008 14:16:30 GMT+02:00

I really want to thank all the organizers for their work during WOC. For me, it was one of the very best WOCs ever (since the first WOC I ran in, which was 1997). The atmosphere was pretty nice and the competitions I ran – just except for the sprint qualification – were challenging (mapping style, courses).

But most of all, I have to say that I saw one of the best examples of TV coverage ever. I really enjoyed watching the TV broadcasts. The most interesting concept was to show on TV one full leg in the forest (e.g. 11-12 in the middle distance). I think it is more or less the first time that we could see on TV top orienteers facing challenging orienteering over an entire leg. It was great.

All the organisers did a very good job, you can be proud! You deserved a gold medal too.

Francis de Course d'Orientation

The Organising Team of WOC 2008
WOC 2008
Legionarska 12
772 00 Olomouc
République Tchèque




Paris, 30 September 2008

Marie-France CHARLES
President
French Orienteering Federation

Dear WOC 2008 Organisers,

In the name of the Council of the French Orienteering Federation and of all French orienteers I would like to thank you for your efforts and efficiency on the occasion of the incident involving our athlete Thierry Gueorgiou during the World Championships in Olomouc.

Yours sincerely



Marie-France CHARLES
FFCO President



SKUPINA ČEZ





WOC 2008

Appendix 1

Appendices

1. WOC Schedule

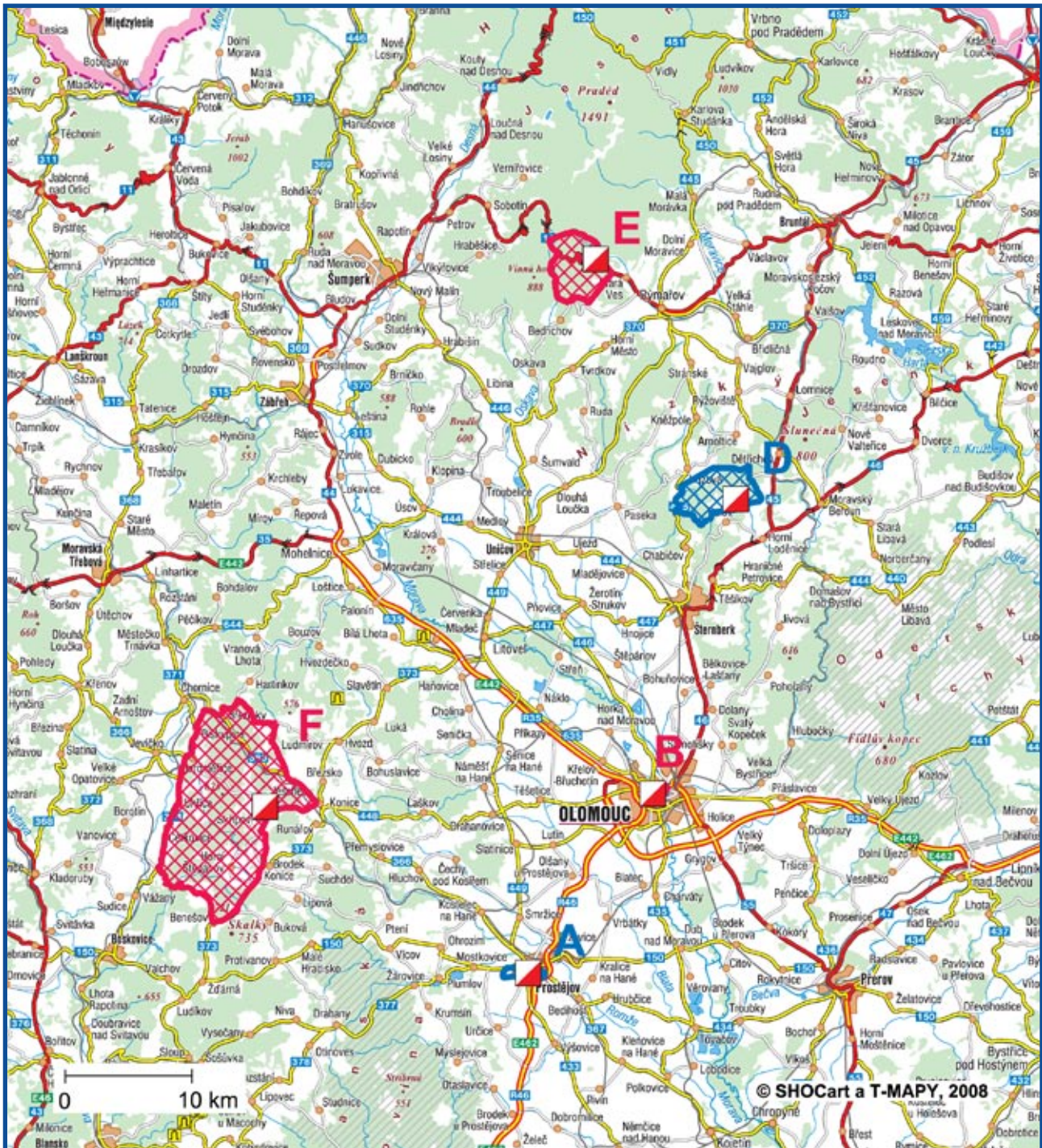
Sunday 13. 7.	09:30 - 10:30	Sprint Qualification	Prostějov, sídliště Svobody
	16:00 - 16:30	Opening Ceremony	Olomouc, Horní náměstí
	16:45 - 19:00	Sprint Final	Olomouc, Horní náměstí
	19:35 - 19:45	Sprint - Prize-giving Ceremony	Olomouc, Horní náměstí
Tuesday 15. 7.	09:30 - 12:30	Long Qualification	Dalov
Wednesday 16. 7.	09:00	IOF Seminar	Prostějov, Hotel Tennis Club
	15:30	IOF/VIP/media race	Veská, golf
Thursday 17. 7.	09:30 - 11:30	Middle Qualification	Stará Ves u Rýmařova
	15:00 - 19:35	Middle Final	Stará Ves u Rýmařova
Friday 18. 7.	09:30	IOF General Assembly	Prostějov, Hotel Tennis Club
Saturday 19. 7.	9:30 - 13:30	Long Final	Skřípov
	19:00 - 19:30	Middle and Long - Prize-giving Ceremony	Olomouc, Horní náměstí
Sunday 20. 7.	9:00 - 13:45	Relay	Skřípov
	14:00 - 14:15	Relay - Prizegiving Ceremony	Skřípov
	14:15 - 14:30	WOC Closing Ceremony	Skřípov





Appendix 2

2. WOC 2008 event terrains and arenas



- A - Prostějov** - Sprint - qualification
- B - Olomouc** - Sprint - final
- D - Dalov** - Long- qualification
- E - Stará Ves u Rýmařova** - Middle - qualification/final
- F - Skřipov** - Long - final, Relay



3. Overview of active participants

Countries participated

Country	Staff	Competitors
Australia	3	9
Austria	4	10
Belgium	2	6
Bulgaria	5	9
Canada	2	11
China	8	9
Chinese Taipei	1	2
Croatia	1	8
Czech Republic	4	11
Denmark	5	11
Estonia	3	8
Finland	5	14
France	4	10
Germany	2	8
Great Britain	5	10
Hong Kong	1	1
Hungary	2	11
Ireland	1	7
Israel	1	2
Italy	2	8

Japan	1	12
Latvia	1	9
Lithuania	2	10
Netherlands	0	1
New Zealand	3	5
Norway	6	14
Poland	2	8
Portugal	1	5
Republic Serbia	1	4
Romania	2	5
Russia	1	12
Slovakia	3	8
Slovenia	1	5
South Africa	1	4
Spain	1	8
Sweden	7	14
Switzerland	6	14
Turkey	1	8
Ukraine	3	14
United States	4	10
Total	108	335

Number of competitors starting in particular races:

Sprint	84 W	111 M
Long	85 W	105 M
Middle	88 W	113 M
Relay	26 W	36 M



Appendix 4

4. WOC 2008 Results

SPRINT QUALIFICATION - WOMEN A

#	Name	Country	Time	
1	Helena Jansson	Sweden	11:07.0	
2	Anne Margrethe Hausken	Norway	11:10.0	+0:03.0
3	Minna Kauppi	Finland	11:19.0	+0:12.0
4	Lea Mueller	Switzerland	11:21.0	+0:14.0
5	Shuangyan Hao	China	11:22.0	+0:15.0
6	Eva Juřeníková	Czech Republic	11:34.0	+0:27.0
7	Martina Rákayová	Slovakia	11:41.0	+0:34.0
8	Ildikó Szerencsi	Hungary	11:51.0	+0:44.0
9	Rachael Elder	Great Britain	11:53.0	+0:46.0
10	Liis Johanson	Estonia	12:15.0	+1:08.0
11	Céline Dodin	France	12:17.0	+1:10.0
12	Natalia Korzhova	Russia	12:19.0	+1:12.0
12	Sandra Pauzaite	Lithuania	12:19.0	+1:12.0
14	Iliana Shandurkova	Bulgaria	12:28.0	+1:21.0
15	Jasmine Neve	Australia	12:42.0	+1:35.0
16	Ona Rafols	Spain	12:45.0	+1:38.0
17	Olga Sluta	Ukraine	12:59.0	+1:52.0
18	Veronica Minoiu	Romania	13:04.0	+1:57.0
19	Uschi Polzer	Austria	13:10.0	+2:03.0
20	Una Arama	Latvia	13:12.0	+2:05.0
21	Louise Oram	Canada	13:14.0	+2:07.0
22	Vinciane Mulpas	Belgium	13:54.0	+2:47.0
23	Akane Inaba	Japan	13:56.0	+2:49.0
24	Vinka Kvočić	Croatia	14:22.0	+3:15.0
25	Iwona Wicha	Poland	14:29.0	+3:22.0
	Sandra Zürcher	United States	MP	
	Niamh O Boyle	Ireland	MP	
	Elisa Dresen	Germany	DNS	



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Appendix 4

SPRINT QUALIFICATION - WOMEN B

#	Name	Country	Time	
1	Signe Soes	Denmark	11:07.0	
2	Galina Vinogradova	Russia	11:15.0	+0:08.0
3	Ingunn Hultgreen Weltzien	Norway	11:16.0	+0:09.0
4	Pippa Whitehouse	Great Britain	11:23.0	+0:16.0
5	Katri Lindeqvist	Finland	11:27.0	+0:20.0
6	Michela Guizzardi	Italy	11:29.0	+0:22.0
7	Radka Brožková	Czech Republic	11:33.0	+0:26.0
7	Emma Engstrand	Sweden	11:33.0	+0:26.0
9	Rahel Friedrich	Switzerland	11:46.0	+0:39.0
10	Bernadett Kelemen	Hungary	11:49.0	+0:42.0
11	Mingyue Zhu	China	11:52.0	+0:45.0
12	Kathryn Ewels	Australia	11:56.0	+0:49.0
13	Amélie Chataing	France	12:08.0	+1:01.0
14	Yoko Bamba	Japan	12:13.0	+1:06.0
15	Inga Dambe	Latvia	12:15.0	+1:08.0
16	Annabel Fernandez	Spain	12:17.0	+1:10.0
17	Evhenia Ivanets	Ukraine	12:20.0	+1:13.0
18	Rasa Ptasekaite	Lithuania	12:24.0	+1:17.0
19	Dragana Zivkovic	Republic Serbia	12:40.0	+1:33.0
20	Anita Seeböck	Austria	12:53.0	+1:46.0
21	Stefaniya Dimitrova	Bulgaria	12:59.0	+1:52.0
22	Greet Oeyen	Belgium	13:29.0	+2:22.0
23	Kirti Rebane	Estonia	13:42.0	+2:35.0
24	Maria Sa	Portugal	13:43.0	+2:36.0
25	Hillary Saeger	United States	13:51.0	+2:44.0
26	Ciara Largey	Ireland	13:52.0	+2:45.0
27	Heather Smith	Canada	15:16.0	+4:09.0
28	Pei-Chi Chuang	Chinese Taipei	19:14.0	+8:07.0



Appendix 4

SPRINT QUALIFICATION - WOMEN C

#	Name	Country	Time	
1	Dana Brožková	Czech Republic	11:23.0	
2	Heli Jukkola	Finland	11:25.0	+0:02.0
3	Linnea Gustafsson	Sweden	11:28.0	+0:05.0
4	Elise Egseth	Norway	11:30.0	+0:07.0
4	Seline Stalder	Switzerland	11:30.0	+0:07.0
6	Sarah Rollins	Great Britain	11:43.0	+0:20.0
7	Inga Kazlauskaite	Lithuania	11:52.0	+0:29.0
8	Aija Skrastina	Latvia	11:54.0	+0:31.0
9	Larysa Stanchenko	Russia	12:01.0	+0:38.0
9	Capucine Vercellotti	France	12:01.0	+0:38.0
11	Natalaya Dimitrova	Bulgaria	12:06.0	+0:43.0
12	Grace Elson	Australia	12:08.0	+0:45.0
13	Nadiya Volynska	Ukraine	12:11.0	+0:48.0
14	Ji Li	China	12:18.0	+0:55.0
15	Éva Makrai	Hungary	12:50.0	+1:27.0
16	Raquel Costa	Portugal	12:52.0	+1:29.0
17	Line Söderlund	Denmark	12:53.0	+1:30.0
18	Annika Rihma	Estonia	12:59.0	+1:36.0
19	Katarína Labašová	Slovakia	13:00.0	+1:37.0
20	Thea Lillehov	Austria	13:07.0	+1:44.0
21	Meike Jaeger	Germany	13:14.0	+1:51.0
22	Nikolina Stepan	Croatia	13:48.0	+2:25.0
23	Victoria Smith	Canada	13:56.0	+2:33.0
24	Ailbhe Creedon	Ireland	14:30.0	+3:07.0
25	Lieke Van Opstal	Netherlands	14:44.0	+3:21.0
26	Emine Sezgünsay	Turkey	14:59.0	+3:36.0
	Samantha Saeger	United States	MP	
	Madoka Kogure	Japan	MP	



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Appendix 4

SPRINT QUALIFICATION - MEN A

#	Name	Country	Time	
1	Alexander Lubina	Germany	10:52.0	
2	Tomáš Dlabaja	Czech Republic	10:53.0	+0:01.0
3	Matthias Merz	Switzerland	10:57.0	+0:05.0
4	Emil Wingstedt	Sweden	11:00.0	+0:08.0
5	Graham Gristwood	Great Britain	11:06.0	+0:14.0
6	Tero Föhr	Finland	11:07.0	+0:15.0
7	Mikkel Lund	Denmark	11:09.0	+0:17.0
8	Øystein Kvaal Østerbø	Norway	11:19.0	+0:27.0
8	Patrick Goeres	Canada	11:19.0	+0:27.0
10	Valentin Novikov	Russia	11:20.0	+0:28.0
11	Wojciech Kowalski	Poland	11:26.0	+0:34.0
12	Pavlo Ushkvarok	Ukraine	11:31.0	+0:39.0
13	Marco Seppi	Italy	11:32.0	+0:40.0
14	Vilius Aleliunas	Lithuania	11:37.0	+0:45.0
14	Chris Forne	New Zealand	11:37.0	+0:45.0
14	Simon Uppill	Australia	11:37.0	+0:45.0
17	Vincent Coupat	France	11:38.0	+0:46.0
17	Ivan Sirakov	Bulgaria	11:38.0	+0:46.0
19	Zsolt Lenkei	Hungary	11:46.0	+0:54.0
20	Fabien Pasquasy	Belgium	11:56.0	+1:04.0
21	Ondrej Piják	Slovakia	11:57.0	+1:05.0
22	Martin Binder	Austria	12:04.0	+1:12.0
22	Peeter Pihl	Estonia	12:04.0	+1:12.0
24	Raul Martin	Spain	12:05.0	+1:13.0
25	Matjaž Štanfel	Croatia	12:11.0	+1:19.0
26	Pedro Nogueira	Portugal	12:14.0	+1:22.0
27	Tamas Bogya	Romania	12:19.0	+1:27.0
28	Anatolijs Tarasovs	Latvia	12:23.0	+1:31.0
29	Shigeyuki Koizumi	Japan	12:26.0	+1:34.0
30	Andrew Quin	Ireland	12:31.0	+1:39.0
31	Bin Cao	China	12:37.0	+1:45.0
32	Iztok Rojc	Slovenia	13:00.0	+2:08.0
33	Igor Vukovic	Republic Serbia	13:28.0	+2:36.0
34	Evren Kupeli	Turkey	13:50.0	+2:58.0
35	Eddie Bergeron	United States	13:53.0	+3:01.0
36	Sam Choi Lam	Hong Kong	14:15.0	+3:23.0
37	Paul Wimberley	South Africa	15:36.0	+4:44.0



Appendix 4

SPRINT QUALIFICATION - MEN B

#	Name	Country	Time	
1	Matthias Mueller	Switzerland	10:48.0	
2	Jamie Stevenson	Great Britain	10:53.0	+0:05.0
3	Andrey Khramov	Russia	10:59.0	+0:11.0
4	Yuri Omelchenko	Ukraine	11:03.0	+0:15.0
4	Marius Bjugan	Norway	11:03.0	+0:15.0
6	Christian Nielsen	Denmark	11:10.0	+0:22.0
7	Jan Mrázek	Czech Republic	11:12.0	+0:24.0
8	Gernot Kerschbaumer	Austria	11:26.0	+0:38.0
9	Mats Haldin	Finland	11:30.0	+0:42.0
10	Damien Renard	France	11:32.0	+0:44.0
10	Erik Öhlund	Sweden	11:32.0	+0:44.0
12	Pavol Bukovac	Slovakia	11:35.0	+0:47.0
13	Mikhail Mamleev	Italy	11:36.0	+0:48.0
14	István Zsebeházy	Hungary	11:38.0	+0:50.0
15	Julian Dent	Australia	11:43.0	+0:55.0
16	Zemgus Zagata	Latvia	11:51.0	+1:03.0
16	Darius Sadeckas	Lithuania	11:51.0	+1:03.0
18	Wojciech Dwojak	Poland	11:54.0	+1:06.0
19	Daisuke Yamaguchi	Japan	11:58.0	+1:10.0
20	Celso Moiteiro	Portugal	12:09.0	+1:21.0
21	Thomas Reynolds	New Zealand	12:21.0	+1:33.0
22	Bart Delobel	Belgium	12:23.0	+1:35.0
23	Nikolay Dimitrov	Bulgaria	12:24.0	+1:36.0
24	Alexey Marchenko	Israel	12:30.0	+1:42.0
25	Ross Smith	United States	12:32.0	+1:44.0
26	Rui Pan	China	12:33.0	+1:45.0
27	Jon Torrance	Canada	12:37.0	+1:49.0
28	Patrick Higgins	Ireland	12:42.0	+1:54.0
29	Lino Legac	Croatia	12:43.0	+1:55.0
30	Cedomir Paunovic	Republic Serbia	12:48.0	+2:00.0
31	Marius Anghel	Romania	12:50.0	+2:02.0
32	Ahmet Kacmaz	Turkey	13:00.0	+2:12.0
33	Lluis Ferrer	Spain	13:15.0	+2:27.0
34	Janez Pretnar	Slovenia	13:41.0	+2:53.0
35	Eugene Botha	South Africa	14:08.0	+3:20.0
36	Chang-Chan Yang	Chinese Taipei	16:48.0	+6:00.0
	Christoph Hofmeister	Germany	MP	



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Appendix 4

SPRINT QUALIFICATION - MEN C

#	Name	Country	Time	
1	Daniel Hubmann	Switzerland	10:58.0	
2	Jan Procházka	Czech Republic	11:11.0	+0:13.0
3	Ádám Kovács	Hungary	11:14.0	+0:16.0
4	Lars Skjeset	Norway	11:21.0	+0:23.0
5	Christian Teich	Germany	11:22.0	+0:24.0
6	Lukáš Barták	Slovakia	11:23.0	+0:25.0
7	Rasmus Soes	Denmark	11:30.0	+0:32.0
7	Sander Vaher	Estonia	11:30.0	+0:32.0
7	Ross Morrison	New Zealand	11:30.0	+0:32.0
10	Kiril Nikolov	Bulgaria	11:34.0	+0:36.0
11	Thierry Gueorgiou	France	11:35.0	+0:37.0
12	Martin Johansson	Sweden	11:36.0	+0:38.0
13	Martins Sirmais	Latvia	11:37.0	+0:39.0
13	Simonas Krepsta	Lithuania	11:37.0	+0:39.0
15	Ionut Alin Zinca	Romania	11:41.0	+0:43.0
16	Sergey Detkov	Russia	11:45.0	+0:47.0
16	Pavel Gvozdev	Israel	11:45.0	+0:47.0
18	Tuomas Tervo	Finland	11:49.0	+0:51.0
19	Scott Fraser	Great Britain	11:51.0	+0:53.0
20	Evhen Kandybey	Ukraine	11:53.0	+0:55.0
21	Juan Manuel Casado	Spain	11:54.0	+0:56.0
22	Alessio Tenani	Italy	11:58.0	+1:00.0
23	Jan Zazgornik	Austria	12:00.0	+1:02.0
24	Marcin Richert	Poland	12:19.0	+1:21.0
24	Neil Dobbs	Ireland	12:19.0	+1:21.0
26	Joaquim Sousa	Portugal	12:37.0	+1:39.0
27	Hiroyuki Kato	Japan	12:38.0	+1:40.0
28	Kerrin Rattray	Australia	12:45.0	+1:47.0
29	Guilong Li	China	13:05.0	+2:07.0
30	Brent Langbakk	Canada	13:19.0	+2:21.0
31	Turhan Öztürk	Turkey	13:22.0	+2:24.0
32	Dejan Avramovic	Republic Serbia	13:24.0	+2:26.0
33	Garry Morrison	South Africa	13:38.0	+2:40.0
34	Edi Ocvirk	Croatia	13:59.0	+3:01.0
	Andraž Hribar	Slovenia	MP	
	Eric Bone	United States	MP	



SPRINT FINAL RESULTS - WOMEN

#	Name	Country	Time	
1	Anne Margrethe Hausken	Norway	12:42.2	
2	Minna Kauppi	Finland	12:51.5	+0:09.3
3	Helena Jansson	Sweden	13:01.1	+0:18.9
4	Galina Vinogradova	Russia	13:06.8	+0:24.6
5	Heli Jukkola	Finland	13:13.1	+0:30.9
6	Dana Brožková	Czech Republic	13:13.2	+0:31.0
7	Signe Soes	Denmark	13:26.6	+0:44.4
8	Emma Engstrand	Sweden	13:28.4	+0:46.2
9	Eva Juřeníková	Czech Republic	13:32.3	+0:50.0
10	Elise Egseth	Norway	13:42.4	+1:00.2
11	Katri Lindeqvist	Finland	13:52.7	+1:10.5
12	Seline Stalder	Switzerland	13:53.1	+1:10.9
13	Sarah Rollins	Great Britain	13:56.4	+1:14.2
14	Lea Mueller	Switzerland	13:58.2	+1:16.0
15	Linnea Gustafsson	Sweden	14:04.7	+1:22.5
16	Céline Dodin	France	14:06.6	+1:24.4
17	Radka Brožková	Czech Republic	14:07.0	+1:24.8
18	Mingyue Zhu	China	14:13.1	+1:30.9
19	Rahel Friedrich	Switzerland	14:17.2	+1:35.0
20	Martina Rákayová	Slovakia	14:24.6	+1:42.4
21	Pippa Whitehouse	Great Britain	14:25.3	+1:43.0
22	Ingunn Hultgreen Weltzien	Norway	14:31.1	+1:48.9
23	Inga Kazlauskaitė	Lithuania	14:33.9	+1:51.7
24	Bernadett Kelemen	Hungary	14:42.9	+2:00.7
25	Iliana Shandurkova	Bulgaria	14:51.2	+2:09.0
26	Michela Guizzardi	Italy	14:53.3	+2:11.0
27	Kathryn Ewels	Australia	14:54.8	+2:12.6
28	Aija Skrastina	Latvia	14:55.2	+2:13.0
29	Natalia Korzhova	Russia	14:57.5	+2:15.3
30	Sandra Pauzaite	Lithuania	15:04.6	+2:22.4
31	Éva Makrai	Hungary	15:06.5	+2:24.3
32	Grace Elson	Australia	15:07.5	+2:25.3
33	Inga Dambe	Latvia	15:12.0	+2:29.8
34	Rachael Elder	Great Britain	15:20.1	+2:37.9
35	Ildikó Szerencsi	Hungary	15:22.5	+2:40.3
36	Yoko Bamba	Japan	15:30.2	+2:48.0
37	Natalaya Dimitrova	Bulgaria	15:30.3	+2:48.0
38	Liis Johanson	Estonia	15:47.4	+3:05.2
39	Nadiya Volynska	Ukraine	15:57.2	+3:15.0
40	Amélie Chataing	France	15:58.7	+3:16.5
41	Capucine Vercellotti	France	16:21.9	+3:39.7
42	Jasmine Neve	Australia	16:28.2	+3:46.0
	Ji Li	China	MP	
	Shuangyan Hao	China	MP	
	Larysa Stanchenko	Russia	MP	



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Appendix 4

SPRINT FINAL RESULTS - MEN

#	Name	Country	Time	
1	Andrey Khramov	Russia	13:36.9	
2	Daniel Hubmann	Switzerland	13:39.3	+0:02.4
3	Martin Johansson	Sweden	14:13.7	+0:36.8
4	Lukáš Barták	Slovakia	14:17.1	+0:40.2
5	Thierry Gueorgiou	France	14:19.3	+0:42.4
6	Tomáš Dlabaja	Czech Republic	14:23.1	+0:46.2
7	Jan Procházka	Czech Republic	14:23.4	+0:46.5
8	Mats Haldin	Finland	14:30.7	+0:53.8
9	Gernot Kerschbaumer	Austria	14:38.1	+1:01.2
10	Simonas Krepsta	Lithuania	14:39.2	+1:02.3
11	Pavlo Ushkvarok	Ukraine	14:40.8	+1:03.9
12	Jamie Stevenson	Great Britain	14:43.7	+1:06.8
13	Valentin Novikov	Russia	14:44.6	+1:07.7
14	Matthias Mueller	Switzerland	14:46.7	+1:09.8
15	Yuri Omelchenko	Ukraine	14:47.4	+1:10.5
16	Pavol Bukovac	Slovakia	14:52.8	+1:15.9
17	Tero Föhr	Finland	14:53.2	+1:16.3
18	Jan Mrázek	Czech Republic	14:54.3	+1:17.4
19	Alexander Lubina	Germany	14:54.5	+1:17.6
20	Mikkel Lund	Denmark	14:55.4	+1:18.5
21	Ionut Alin Zinca	Romania	14:55.9	+1:19.0
22	Graham Gristwood	Great Britain	14:57.8	+1:20.9
23	Matthias Merz	Switzerland	14:58.2	+1:21.3
24	Damien Renard	France	15:00.8	+1:23.9
25	Christian Teich	Germany	15:02.5	+1:25.6
26	Wojciech Kowalski	Poland	15:02.9	+1:26.0
27	Vilius Aleliunas	Lithuania	15:03.5	+1:26.6
28	Øystein Kvaal Østerbø	Norway	15:09.0	+1:32.1
29	Marius Bjugan	Norway	15:09.4	+1:32.5
30	Ádám Kovács	Hungary	15:10.6	+1:33.7
31	Kiril Nikolov	Bulgaria	15:10.9	+1:34.0
32	Mikhail Mamleev	Italy	15:12.2	+1:35.3
33	Marco Seppi	Italy	15:23.4	+1:46.5
34	Sander Vaher	Estonia	15:29.2	+1:52.3
35	István Zsebeházy	Hungary	15:33.8	+1:56.9
36	Chris Forne	New Zealand	15:37.2	+2:00.3
37	Martins Sirmas	Latvia	15:44.9	+2:08.0
38	Erik Öhlund	Sweden	15:53.4	+2:16.5
39	Christian Nielsen	Denmark	15:55.6	+2:18.7
40	Ross Morrison	New Zealand	15:58.6	+2:21.7
41	Rasmus Soes	Denmark	16:03.3	+2:26.4
42	Julian Dent	Australia	16:18.3	+2:41.4
43	Simon Uppill	Australia	16:23.4	+2:46.5
44	Patrick Goeres	Canada	16:37.8	+3:00.9
	Emil Wingstedt	Sweden	MP	
	Lars Skjeset	Norway	MP	



Appendix 4

MIDDLE QUALIFICATION - WOMEN A

#	Name	Country	Time	
1	Lina Persson	Sweden	25:16.0	
2	Marianne Andersen	Norway	26:00.0	+0:44.0
3	Signe Soes	Denmark	26:48.0	+1:32.0
4	Tatiana Ryabkina	Russia	27:10.0	+1:54.0
5	Vroni Koenig-Salmi	Switzerland	27:23.0	+2:07.0
6	Zanda Abzalone	Latvia	27:43.0	+2:27.0
7	Rachael Elder	Great Britain	27:46.0	+2:30.0
8	Minna Kauppi	Finland	27:52.0	+2:36.0
9	Merike Vanjuk	Estonia	27:59.0	+2:43.0
10	Inga Kazlauskaite	Lithuania	28:44.0	+3:28.0
11	Radka Brožková	Czech Republic	28:47.0	+3:31.0
12	Jana Macinská	Slovakia	28:48.0	+3:32.0
13	Iaroslava Trygubiak	Ukraine	29:16.0	+4:00.0
14	Vanessa Round	Australia	29:37.0	+4:21.0
15	Capucine Vercellotti	France	29:43.0	+4:27.0
16	Zsuzsa Fey	Romania	30:28.0	+5:12.0
17	Fanni Gyurkó	Hungary	31:37.0	+6:21.0
18	Iwona Wicha	Poland	32:40.0	+7:24.0
19	Meike Jaeger	Germany	33:18.0	+8:02.0
20	Shuangyan Hao	China	34:47.0	+9:31.0
21	Pavlina Brautigam	United States	35:12.0	+9:56.0
22	Anita Seeböck	Austria	35:39.0	+10:23.0
23	Ciara Largey	Ireland	36:11.0	+10:55.0
24	Stefaniya Dimitrova	Bulgaria	36:57.0	+11:41.0
25	Victoria Smith	Canada	37:02.0	+11:46.0
26	Vinciane Mulpas	Belgium	39:28.0	+14:12.0
27	Ona Rafols	Spain	41:40.0	+16:24.0
28	Kayoko Ishiyama	Japan	48:36.0	+23:20.0
29	Emine Sezgünsay	Turkey	54:06.0	+28:50.0
30	Nikolina Stepan	Croatia	57:31.0	+32:15.0



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Appendix 4

MIDDLE QUALIFICATION - WOMEN B

#	Name	Country	Time	
1	Inga Dambe	Latvia	26:44.0	
1	Helena Jansson	Sweden	26:44.0	
3	Irina Petrova	Russia	27:05.0	+0:21.0
4	Sarah Rollins	Great Britain	27:51.0	+1:07.0
5	Annika Rihma	Estonia	28:07.0	+1:23.0
6	Merja Rantanen	Finland	28:25.0	+1:41.0
7	Joanne Allison	Australia	29:00.0	+2:16.0
8	Céline Dodin	France	29:43.0	+2:59.0
9	Marianne Riddervold	Norway	29:45.0	+3:01.0
10	Ines Brodmann	Switzerland	29:54.0	+3:10.0
11	Iliana Shandurkova	Bulgaria	30:23.0	+3:39.0
12	Nadiya Volynska	Ukraine	30:30.0	+3:46.0
13	Iveta Duchová	Czech Republic	30:50.0	+4:06.0
14	Ane Linde	Denmark	30:53.0	+4:09.0
15	Sandy Hott	Canada	31:22.0	+4:38.0
16	Annabel Fernandez	Spain	31:49.0	+5:05.0
17	Michaela Gigon	Austria	32:25.0	+5:41.0
18	Greet Oeyen	Belgium	32:26.0	+5:42.0
19	Martina Rákayová	Slovakia	32:52.0	+6:08.0
20	Yoko Bamba	Japan	32:57.0	+6:13.0
21	Indre Valaite	Lithuania	34:09.0	+7:25.0
22	Elisa Dresen	Germany	35:55.0	+9:11.0
23	Veronica Minoiu	Romania	36:49.0	+10:05.0
24	Niamh O Boyle	Ireland	38:07.0	+11:23.0
25	Lieke Van Opstal	Netherlands	39:18.0	+12:34.0
26	Ildikó Szerencsi	Hungary	43:13.0	+16:29.0
27	Mingyue Zhu	China	44:53.0	+18:09.0
28	Maria Sa	Portugal	47:28.0	+20:44.0
29	Viktoria Brautigam	United States	47:54.0	+21:10.0



Appendix 4

MIDDLE QUALIFICATION - WOMEN C

#	Name	Country	Time	
1	Anne Margrethe Hausken	Norway	26:12.0	
2	Lea Mueller	Switzerland	27:11.0	+0:59.0
3	Heli Jukkola	Finland	27:22.0	+1:10.0
4	Lina Bäckström	Sweden	27:45.0	+1:33.0
5	Yulia Novikova	Russia	29:14.0	+3:02.0
6	Sandra Pauzaite	Lithuania	29:22.0	+3:10.0
7	Esther Gil	Spain	30:09.0	+3:57.0
7	Grace Elson	Australia	30:09.0	+3:57.0
9	Liis Johanson	Estonia	30:33.0	+4:21.0
10	Zdenka Stará	Czech Republic	30:39.0	+4:27.0
11	Line Sørderlund	Denmark	30:40.0	+4:28.0
12	Amélie Chataing	France	30:51.0	+4:39.0
13	Michela Guizzardi	Italy	30:54.0	+4:42.0
14	Natalaya Dimitrova	Bulgaria	32:03.0	+5:51.0
15	Esther Doetsch	Germany	32:18.0	+6:06.0
16	Ji Li	China	32:28.0	+6:16.0
17	Louise Oram	Canada	33:18.0	+7:06.0
18	Helen Bridle	Great Britain	35:12.0	+9:00.0
19	Éva Makrai	Hungary	36:00.0	+9:48.0
20	Sandra Zürcher	United States	37:55.0	+11:43.0
21	Raquel Costa	Portugal	39:16.0	+13:04.0
22	Uschi Polzer	Austria	39:29.0	+13:17.0
23	Madoka Kogure	Japan	42:15.0	+16:03.0
24	Evhenia Ivanets	Ukraine	42:46.0	+16:34.0
25	Vinka Kvočić	Croatia	45:45.0	+19:33.0
	Pei-Chi Chuang	Chinese Taipei	97.37	
	Aija Skrastina	Latvia	MP	
	Ailbhe Creedon	Ireland	MP	
	Dragana Zivkovic	Republic Serbia	MP	



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Appendix 4

MIDDLE QUALIFICATION - MEN A

#	Name	Country	Time	
1	Thierry Gueorgiou	France	25:12.0	
2	Anders Nordberg	Norway	25:29.0	+0:17.0
3	Peter Öberg	Sweden	26:35.0	+1:23.0
4	Valentin Novikov	Russia	26:36.0	+1:24.0
5	Philippe Adamski	France	26:53.0	+1:41.0
6	Gernot Kerschbaumer	Austria	26:54.0	+1:42.0
7	Pasi Ikonen	Finland	27:08.0	+1:56.0
8	Vladimír Lučan	Czech Republic	27:13.0	+2:01.0
9	Wojciech Kowalski	Poland	27:21.0	+2:09.0
10	Julian Dent	Australia	27:27.0	+2:15.0
11	Tue Lassen	Denmark	27:57.0	+2:45.0
12	Edgars Bertuks	Latvia	28:00.0	+2:48.0
13	Jon Duncan	Great Britain	28:33.0	+3:21.0
14	Fabian Hertner	Switzerland	29:03.0	+3:51.0
15	Ross Morrison	New Zealand	29:37.0	+4:25.0
16	Erkki Aadli	Estonia	29:49.0	+4:37.0
17	Nikolay Dimitrov	Bulgaria	29:54.0	+4:42.0
18	Mike Smith	Canada	30:18.0	+5:06.0
19	Csaba Gösswein	Hungary	30:37.0	+5:25.0
20	Ondrej Piják	Slovakia	31:36.0	+6:24.0
21	Neil Dobbs	Ireland	32:16.0	+7:04.0
22	Vilius Aleliunas	Lithuania	33:11.0	+7:59.0
23	Andraž Hribar	Slovenia	33:53.0	+8:41.0
24	Bart Delobel	Belgium	33:59.0	+8:47.0
25	Oleksandr Marchuk	Ukraine	34:03.0	+8:51.0
26	Matjaž Štanfel	Croatia	34:52.0	+9:40.0
27	Bin Cao	China	36:20.0	+11:08.0
28	Marco Seppi	Italy	36:48.0	+11:36.0
29	Yoshinori Takahashi	Japan	37:53.0	+12:41.0
30	Igor Vukovic	Republic Serbia	39:15.0	+14:03.0
31	Marius Anghel	Romania	39:18.0	+14:06.0
32	Celso Moiteiro	Portugal	39:25.0	+14:13.0
33	Clem McGrath	United States	39:46.0	+14:34.0
34	Meriç Arazoğlu	Turkey	51:59.0	+26:47.0
35	Sam Choi Lam	Hong Kong	67:19.0	+42:07.0
36	Garry Morrison	South Africa	72:48.0	+47:36.0
	Christoph Hofmeister	Germany	MP	
	Juan Manuel Casado	Spain	DNF	



Appendix 4

MIDDLE QUALIFICATION - MEN B

#	Name	Country	Time	
1	Baptiste Rollier	Switzerland	27:57.0	
2	Audun Weltzien	Norway	28:42.0	+0:45.0
3	Michal Smola	Czech Republic	28:49.0	+0:52.0
4	Erik Axelsson	Sweden	29:04.0	+1:07.0
5	Klaus Schgaguler	Italy	29:18.0	+1:21.0
6	Olle Kärner	Estonia	29:19.0	+1:22.0
7	Oleksandr Kratov	Ukraine	29:22.0	+1:25.0
8	Graham Gristwood	Great Britain	29:54.0	+1:57.0
9	Dmitriy Tsvetkov	Russia	30:01.0	+2:04.0
10	Tero Föhr	Finland	30:42.0	+2:45.0
11	Janis Krumins	Latvia	30:51.0	+2:54.0
12	Simonas Krepsta	Lithuania	30:57.0	+3:00.0
13	Felix Breitschädel	Austria	31:17.0	+3:20.0
14	Christian Nielsen	Denmark	31:40.0	+3:43.0
15	Michal Krajčík	Slovakia	32:07.0	+4:10.0
16	Roger Casal	Spain	32:10.0	+4:13.0
17	François Gonon	France	33:55.0	+5:58.0
18	David Shepherd	Australia	34:02.0	+6:05.0
19	Jacek Nowak	Poland	34:16.0	+6:19.0
20	Tamas Bogya	Romania	34:23.0	+6:26.0
21	Ivaylo Kamenarov	Bulgaria	34:24.0	+6:27.0
22	Fabien Pasquasy	Belgium	34:53.0	+6:56.0
23	Andrew Quin	Ireland	35:17.0	+7:20.0
24	Shigeyuki Koizumi	Japan	35:57.0	+8:00.0
25	István Zsebeházy	Hungary	36:11.0	+8:14.0
26	Lino Legac	Croatia	36:26.0	+8:29.0
27	Guilong Li	China	37:46.0	+9:49.0
28	Nick Duca	Canada	38:16.0	+10:19.0
29	Neil Kerrison	New Zealand	38:29.0	+10:32.0
30	Janez Pretnar	Slovenia	39:53.0	+11:56.0
31	Torben Wendler	Germany	41:20.0	+13:23.0
32	Eugene Botha	South Africa	42:04.0	+14:07.0
33	Pedro Nogueira	Portugal	43:02.0	+15:05.0
34	Wyatt Riley	United States	44:29.0	+16:32.0
35	Dejan Avramovic	Republic Serbia	46:37.0	+18:40.0
36	İlyas Avcı	Turkey	46:55.0	+18:58.0
37	Alexey Marchenko	Israel	51:33.0	+23:36.0
38	Chang-Chan Yang	Chinese Taipei	91:14.0	+63:17.0



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Appendix 4

MIDDLE QUALIFICATION - MEN C

#	Name	Country	Time	
1	Mikhail Mamleev	Italy	25:43.0	
2	Roman Ryapolov	Russia	27:06.0	+1:23.0
3	Damien Renard	France	27:18.0	+1:35.0
4	Jarkko Huovila	Finland	27:23.0	+1:40.0
5	Jonas Vytautas Gvildys	Lithuania	27:30.0	+1:47.0
6	Daniel Hubmann	Switzerland	27:34.0	+1:51.0
6	Martins Sirmai	Latvia	27:34.0	+1:51.0
8	Marián Dávidík	Slovakia	27:36.0	+1:53.0
9	Ionut Alin Zinca	Romania	27:45.0	+2:02.0
10	Zsolt Lenkei	Hungary	28:14.0	+2:31.0
11	Pavel Gvozdev	Israel	28:16.0	+2:33.0
12	Mikkel Lund	Denmark	28:18.0	+2:35.0
13	Tomáš Dlabaja	Czech Republic	28:24.0	+2:41.0
14	Hans Trøan	Norway	28:43.0	+3:00.0
15	Wojciech Dwojak	Poland	28:45.0	+3:02.0
16	Oli Johnson	Great Britain	28:46.0	+3:03.0
17	Sander Vaher	Estonia	28:47.0	+3:04.0
18	Pavlo Ushkvarok	Ukraine	28:48.0	+3:05.0
19	Mattias Karlsson	Sweden	29:31.0	+3:48.0
20	Christian Teich	Germany	29:40.0	+3:57.0
21	Markus Lang	Austria	29:47.0	+4:04.0
22	Lachezar Iliev	Bulgaria	29:55.0	+4:12.0
23	Simon Uppill	Australia	30:56.0	+5:13.0
24	Michel Bastin	Belgium	31:49.0	+6:06.0
25	Chris Forne	New Zealand	32:11.0	+6:28.0
26	Shunsuke Konno	Japan	32:14.0	+6:31.0
27	Joaquim Sousa	Portugal	32:31.0	+6:48.0
28	Rui Pan	China	34:54.0	+9:11.0
29	Jaka Piltaver	Slovenia	35:03.0	+9:20.0
30	Daniel Portal	Spain	35:15.0	+9:32.0
31	Eddie Bergeron	United States	35:16.0	+9:33.0
32	Wil Smith	Canada	36:00.0	+10:17.0
33	Nicholas Mulder	South Africa	36:33.0	+10:50.0
34	Patrick Higgins	Ireland	40:53.0	+15:10.0
35	Evren Kupeli	Turkey	44:17.0	+18:34.0
36	Edi Ocvirk	Croatia	45:03.0	+19:20.0
37	Cedomir Paunovic	Republic Serbia	46:14.0	+20:31.0



MIDDLE FINAL - WOMEN

#	Name	Country	Time	
1	Minna Kauppi	Finland	32:35.0	
2	Vroni Koenig-Salmi	Switzerland	34:37.0	+2:02.0
3	Radka Brožková	Czech Republic	34:51.0	+2:16.0
4	Marianne Andersen	Norway	35:11.0	+2:36.0
5	Tatiana Ryabkina	Russia	35:39.0	+3:04.0
6	Merja Rantanen	Finland	35:43.0	+3:08.0
7	Helena Jansson	Sweden	36:20.0	+3:45.0
8	Lina Bäckström	Sweden	36:56.0	+4:21.0
9	Lea Mueller	Switzerland	36:58.0	+4:23.0
10	Heli Jukkola	Finland	37:15.0	+4:40.0
11	Annika Rihma	Estonia	37:48.0	+5:13.0
12	Marianne Riddervold	Norway	38:03.0	+5:28.0
13	Lina Persson	Sweden	38:08.0	+5:33.0
14	Irina Petrova	Russia	38:23.0	+5:48.0
15	Céline Dodin	France	39:21.0	+6:46.0
16	Grace Elson	Australia	39:49.0	+7:14.0
17	Joanne Allison	Australia	39:50.0	+7:15.0
18	Yulia Novikova	Russia	39:52.0	+7:17.0
19	Sarah Rollins	Great Britain	39:56.0	+7:21.0
20	Esther Gil	Spain	40:10.0	+7:35.0
20	Amélie Chataing	France	40:10.0	+7:35.0
22	Signe Soes	Denmark	40:16.0	+7:41.0
23	Ines Brodmann	Switzerland	40:29.0	+7:54.0
24	Zdenka Stará	Czech Republic	41:07.0	+8:32.0
25	Anne Margrethe Hausken	Norway	41:13.0	+8:38.0
26	Sandy Hott	Canada	41:22.0	+8:47.0
27	Nadiya Volynska	Ukraine	41:55.0	+9:20.0
28	Rachael Elder	Great Britain	42:00.0	+9:25.0
29	Iveta Duchová	Czech Republic	42:09.0	+9:34.0
30	Inga Kazlauskaite	Lithuania	42:27.0	+9:52.0
31	Jana Macinská	Slovakia	43:11.0	+10:36.0
32	Liis Johanson	Estonia	43:31.0	+10:56.0
33	Vanessa Round	Australia	43:35.0	+11:00.0
34	Capucine Vercellotti	France	43:42.0	+11:07.0
35	Sandra Pauzaite	Lithuania	44:00.0	+11:25.0
36	Inga Dambe	Latvia	45:27.0	+12:52.0
37	Zanda Abzalone	Latvia	46:16.0	+13:41.0
38	Natalaya Dimitrova	Bulgaria	46:28.0	+13:53.0
39	Iliana Shandurkova	Bulgaria	46:32.0	+13:57.0
40	Esther Doetsch	Germany	47:52.0	+15:17.0
41	Michela Guizzardi	Italy	48:19.0	+15:44.0
42	Line Søderlund	Denmark	49:01.0	+16:26.0
43	Iaroslava Trygubiak	Ukraine	49:07.0	+16:32.0
44	Ane Linde	Denmark	49:56.0	+17:21.0
45	Merike Vanjuk	Estonia	50:08.0	+17:33.0



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Appendix 4

MIDDLE FINAL - MEN

#	Name	Country	Time	
1	Thierry Gueorgiou	France	33:49.0	
2	Michal Smola	Czech Republic	34:23.0	+0:34.0
3	Valentin Novikov	Russia	34:27.0	+0:38.0
4	Daniel Hubmann	Switzerland	34:36.0	+0:47.0
5	Peter Öberg	Sweden	35:20.0	+1:31.0
6	Anders Nordberg	Norway	35:23.0	+1:34.0
7	Philippe Adamski	France	36:32.0	+2:43.0
8	Pasi Ikonen	Finland	36:36.0	+2:47.0
9	Edgars Bertuks	Latvia	36:39.0	+2:50.0
10	Mikhail Mamleev	Italy	36:46.0	+2:57.0
11	Gernot Kerschbaumer	Austria	36:48.0	+2:59.0
12	Baptiste Rollier	Switzerland	36:50.0	+3:01.0
13	Tomáš Dlabaja	Czech Republic	37:00.0	+3:11.0
14	Erik Axelsson	Sweden	37:02.0	+3:13.0
14	Olle Kärner	Estonia	37:02.0	+3:13.0
14	Simonas Krepsta	Lithuania	37:02.0	+3:13.0
17	Roman Ryapolov	Russia	37:16.0	+3:27.0
18	Damien Renard	France	37:28.0	+3:39.0
19	Jarkko Huovila	Finland	37:33.0	+3:44.0
20	Tero Föhr	Finland	37:43.0	+3:54.0
21	Audun Weltzien	Norway	37:58.0	+4:09.0
22	Jon Duncan	Great Britain	37:59.0	+4:10.0
23	Hans Trøan	Norway	38:56.0	+5:07.0
24	Tue Lassen	Denmark	38:58.0	+5:09.0
25	Pavel Gvozdev	Israel	39:05.0	+5:16.0
26	Graham Gristwood	Great Britain	39:07.0	+5:18.0
27	Marián Dávidík	Slovakia	39:10.0	+5:21.0
27	Mikkel Lund	Denmark	39:10.0	+5:21.0
29	Vladimír Lučan	Czech Republic	39:58.0	+6:09.0
30	Fabian Hertner	Switzerland	40:00.0	+6:11.0
31	Wojciech Kowalski	Poland	40:07.0	+6:18.0
32	Julian Dent	Australia	40:08.0	+6:19.0
33	Felix Breitschädel	Austria	40:40.0	+6:51.0
34	Michal Krajčík	Slovakia	40:43.0	+6:54.0
35	Martins Sirmas	Latvia	40:47.0	+6:58.0
36	Jonas Vytautas Gvildys	Lithuania	40:58.0	+7:09.0
37	Ionut Alin Zinca	Romania	41:08.0	+7:19.0
38	Klaus Schgaguler	Italy	41:54.0	+8:05.0
39	Wojciech Dwojak	Poland	43:22.0	+9:33.0
40	Christian Nielsen	Denmark	43:32.0	+9:43.0
41	Oleksandr Kratov	Ukraine	44:43.0	+10:54.0
42	Zsolt Lenkei	Hungary	44:50.0	+11:01.0
43	Dmitriy Tsvetkov	Russia	49:16.0	+15:27.0
44	Janis Krumins	Latvia	51:44.0	+17:55.0
	Ross Morrison	New Zealand	MP	



Appendix 4

LONG QUALIFICATION - WOMEN A

#	Name	Country	Time	
1	Signe Soes	Denmark	48:09.0	
2	Marianne Andersen	Norway	48:31.0	+0:22.0
3	Dana Brožková	Czech Republic	48:48.0	+0:39.0
4	Bernadett Kelemen	Hungary	49:04.0	+0:55.0
5	Emma Engstrand	Sweden	49:14.0	+1:05.0
6	Heli Jukkola	Finland	49:15.0	+1:06.0
7	Céline Dodin	France	49:42.0	+1:33.0
8	Martina Rákayová	Slovakia	50:36.0	+2:27.0
9	Joanne Allison	Australia	51:03.0	+2:54.0
10	Esther Gil	Spain	51:30.0	+3:21.0
11	Caroline Cejka	Switzerland	53:34.0	+5:25.0
12	Veronica Minoiu	Romania	54:20.0	+6:11.0
13	Michaela Gigon	Austria	54:43.0	+6:34.0
14	Natalaya Dimitrova	Bulgaria	54:46.0	+6:37.0
15	Una Arama	Latvia	54:59.0	+6:50.0
16	Inga Kazlauskaite	Lithuania	55:42.0	+7:33.0
17	Samantha Saeger	United States	56:12.0	+8:03.0
18	Annika Rihma	Estonia	56:52.0	+8:43.0
19	Olga Syvoronova	Ukraine	57:39.0	+9:30.0
20	Michela Guizzardi	Italy	57:42.0	+9:33.0
21	Pippa Whitehouse	Great Britain	57:52.0	+9:43.0
22	Greet Oeyen	Belgium	58:13.0	+10:04.0
23	Shuangyan Hao	China	58:41.0	+10:32.0
24	Ciara Largey	Ireland	62:26.0	+14:17.0
25	Larysa Stanchenko	Russia	65:08.0	+16:59.0
26	Lieke Van Opstal	Netherlands	70:31.0	+22:22.0
27	Vinka Kvočić	Croatia	73:03.0	+24:54.0
28	Kayoko Ishiyama	Japan	73:13.0	+25:04.0
29	Charlotte MacNaughton	Canada	82:40.0	+34:31.0



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Appendix 4

LONG QUALIFICATION - WOMEN B

#	Name	Country	Time	
1	Annika Billstam	Sweden	49:26.0	
2	Marianne Riddervold	Norway	50:22.0	+0:56.0
3	Merja Rantanen	Finland	50:40.0	+1:14.0
4	Tatiana Ryabkina	Russia	50:55.0	+1:29.0
5	Angela Wild	Switzerland	51:53.0	+2:27.0
6	Liisa Anttila	Finland	52:23.0	+2:57.0
7	Kathryn Ewels	Australia	52:50.0	+3:24.0
8	Zsuzsa Fey	Romania	53:38.0	+4:12.0
9	Jana Macinská	Slovakia	53:39.0	+4:13.0
10	Jana Panchártková	Czech Republic	53:40.0	+4:14.0
11	Aija Skrastina	Latvia	53:59.0	+4:33.0
12	Sarah Rollins	Great Britain	56:00.0	+6:34.0
13	Sandy Hott	Canada	56:58.0	+7:32.0
14	Iliana Shandurkova	Bulgaria	57:05.0	+7:39.0
15	Rasa Ptasekaite	Lithuania	57:46.0	+8:20.0
16	Kirti Rebane	Estonia	57:52.0	+8:26.0
17	Elisa Dresen	Germany	58:35.0	+9:09.0
18	Line Søderlund	Denmark	60:06.0	+10:40.0
19	Mingyue Zhu	China	60:09.0	+10:43.0
20	Ona Rafols	Spain	60:23.0	+10:57.0
21	Yoko Bamba	Japan	60:25.0	+10:59.0
22	Nadiya Volynska	Ukraine	61:33.0	+12:07.0
23	Ágnes Simon	Hungary	61:36.0	+12:10.0
24	Thea Lillehov	Austria	63:46.0	+14:20.0
25	Hillary Saeger	United States	64:52.0	+15:26.0
26	Vinciane Mulpas	Belgium	66:33.0	+17:07.0
27	Raquel Costa	Portugal	70:21.0	+20:55.0
28	Ailbhe Creedon	Ireland	95:35.0	+46:09.0



Appendix 4

LONG QUALIFICATION - WOMEN C

#	Name	Country	Time	
1	Minna Kauppi	Finland	47:14.0	
2	Eva Juřeníková	Czech Republic	48:00.0	+0:46.0
3	Anne Margrethe Hausken	Norway	48:27.0	+1:13.0
4	Sofie Johansson	Sweden	50:17.0	+3:03.0
5	Natalia Korzhova	Russia	50:27.0	+3:13.0
6	Seline Stalder	Switzerland	50:37.0	+3:23.0
7	Riina Kuuselo	Finland	52:53.0	+5:39.0
8	Merike Vanjuk	Estonia	53:03.0	+5:49.0
9	Sandra Pauzaite	Lithuania	53:28.0	+6:14.0
10	Ane Linde	Denmark	54:28.0	+7:14.0
11	Vanessa Round	Australia	54:40.0	+7:26.0
12	Ji Li	China	54:44.0	+7:30.0
13	Fanni Gyurkó	Hungary	55:14.0	+8:00.0
14	Anastasiia Danylova	Ukraine	55:50.0	+8:36.0
15	Louise Oram	Canada	57:44.0	+10:30.0
16	Helen Winkill	Great Britain	57:48.0	+10:34.0
17	Meike Jaeger	Germany	58:07.0	+10:53.0
18	Sandra Zürcher	United States	59:30.0	+12:16.0
19	Niamh O Boyle	Ireland	62:21.0	+15:07.0
20	Annabel Fernandez	Spain	62:52.0	+15:38.0
21	Dragana Zivkovic	Republic Serbia	64:18.0	+17:04.0
22	Karin Leonhardt	Austria	65:23.0	+18:09.0
23	Zanda Abzalone	Latvia	66:56.0	+19:42.0
24	Stefaniya Dimitrova	Bulgaria	68:57.0	+21:43.0
25	Naoko Kanoh	Japan	70:06.0	+22:52.0
26	Maria Sa	Portugal	77:26.0	+30:12.0
27	Nikolina Stepan	Croatia	88:48.0	+41:34.0
	Pei-Chi Chuang	Chinese Taipei	MP	



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Appendix 4

LONG QUALIFICATION - MEN A

#	Name	Country	Time	
1	Mats Troeng	Sweden	61:46.0	
2	Anders Nordberg	Norway	62:39.0	+0:53.0
3	Jamie Stevenson	Great Britain	63:42.0	+1:56.0
4	Philippe Adamski	France	64:05.0	+2:19.0
5	Matthias Merz	Switzerland	64:08.0	+2:22.0
6	Roman Efimov	Russia	64:38.0	+2:52.0
7	Ruslan Glibov	Ukraine	64:44.0	+2:58.0
8	Mikhail Mamleev	Italy	64:51.0	+3:05.0
9	Michal Smola	Czech Republic	65:00.0	+3:14.0
10	Lukáš Barták	Slovakia	65:23.0	+3:37.0
11	Pavel Gvozdev	Israel	66:14.0	+4:28.0
12	Topi Anjala	Finland	67:13.0	+5:27.0
13	Csaba Gösswein	Hungary	68:48.0	+7:02.0
14	Rasmus Soes	Denmark	69:17.0	+7:31.0
15	Ross Morrison	New Zealand	70:22.0	+8:36.0
16	Ivaylo Kamenarov	Bulgaria	73:45.0	+11:59.0
17	Michel Bastin	Belgium	75:08.0	+13:22.0
18	Erkki Aadli	Estonia	75:10.0	+13:24.0
19	Marcin Richert	Poland	76:37.0	+14:51.0
20	Eric Bone	United States	76:58.0	+15:12.0
21	Anatolijs Tarasovs	Latvia	80:42.0	+18:56.0
22	Neil Dobbs	Ireland	80:45.0	+18:59.0
23	Jaka Piltaver	Slovenia	81:06.0	+19:20.0
24	Alexander Lubina	Germany	81:19.0	+19:33.0
25	Kerrin Rattray	Australia	81:48.0	+20:02.0
26	Daniel Portal	Spain	82:13.0	+20:27.0
27	Igor Vukovic	Republic Serbia	82:20.0	+20:34.0
28	Joaquim Sousa	Portugal	82:43.0	+20:57.0
29	Daisuke Yamaguchi	Japan	84:34.0	+22:48.0
29	Matjaž Štanfel	Croatia	84:34.0	+22:48.0
31	Yongwen Wu	China	86:36.0	+24:50.0
32	Nick Duca	Canada	89:18.0	+27:32.0
33	Marius Anghel	Romania	90:53.0	+29:07.0
34	Musa Erdoğan	Turkey	93:59.0	+32:13.0
35	Garry Morrison	South Africa	113:16.0	+51:30.0



Appendix 4

LONG QUALIFICATION - MENB

#	Name	Country	Time	
1	David Schneider	Switzerland	60:47.0	
2	François Gonon	France	61:44.0	+0:57.0
3	Carl Waaler Kaas	Norway	62:38.0	+1:51.0
4	Ádám Kovács	Hungary	62:53.0	+2:06.0
5	Jonas Vytautas Gvildys	Lithuania	63:37.0	+2:50.0
6	Antti Harju	Finland	64:01.0	+3:14.0
7	Fabien Pasquasy	Belgium	64:04.0	+3:17.0
8	Scott Fraser	Great Britain	64:30.0	+3:43.0
9	Marc Lauenstein	Switzerland	64:51.0	+4:04.0
10	Markus Lang	Austria	65:46.0	+4:59.0
10	Janis Krumins	Latvia	65:46.0	+4:59.0
12	Andrey Khramov	Russia	65:54.0	+5:07.0
13	Yuri Omelchenko	Ukraine	66:26.0	+5:39.0
14	Erik Öhlund	Sweden	66:39.0	+5:52.0
15	Klaus Schgaguler	Italy	67:30.0	+6:43.0
16	Christoph Hofmeister	Germany	68:21.0	+7:34.0
17	Tamas Bogya	Romania	69:34.0	+8:47.0
18	Petr Losman	Czech Republic	69:53.0	+9:06.0
19	Michal Krajčík	Slovakia	69:54.0	+9:07.0
20	Mike Smith	Canada	70:55.0	+10:08.0
21	Andraž Hribar	Slovenia	71:33.0	+10:46.0
22	Zlatko Kamenarov	Bulgaria	71:46.0	+10:59.0
23	Andrew Quin	Ireland	74:56.0	+14:09.0
24	Neil Kerrison	New Zealand	75:18.0	+14:31.0
25	Toshiyuki Matsuzawa	Japan	75:36.0	+14:49.0
26	Peeter Pihl	Estonia	76:54.0	+16:07.0
27	Aleksander Bernaciak	Poland	77:05.0	+16:18.0
28	Lino Legac	Croatia	77:07.0	+16:20.0
29	Lluis Ferrer	Spain	77:17.0	+16:30.0
30	Bin Cao	China	79:51.0	+19:04.0
31	Ross Smith	United States	82:14.0	+21:27.0
32	Pedro Nogueira	Portugal	96:09.0	+35:22.0
33	Paul Wimberley	South Africa	100:01.0	+39:14.0
34	Mehmet Bekmez	Turkey	111:59.0	+51:12.0
	Rasmus Djurhuus	Denmark	MP	



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Appendix 4

LONG QUALIFICATION - MEN C

#	Name	Country	Time	
1	Daniel Hubmann	Switzerland	60:45.0	
2	Martin Johansson	Sweden	62:34.0	+1:49.0
3	Olle Kärner	Estonia	62:45.0	+2:00.0
4	Edgars Bertuks	Latvia	62:46.0	+2:01.0
5	Dmitriy Tsvetkov	Russia	63:35.0	+2:50.0
6	Kiril Nikolov	Bulgaria	63:47.0	+3:02.0
7	Mats Haldin	Finland	64:00.0	+3:15.0
8	Marián Dávidík	Slovakia	64:25.0	+3:40.0
9	Ionut Alin Zinca	Romania	64:46.0	+4:01.0
10	Jan Mrázek	Czech Republic	65:06.0	+4:21.0
11	Roger Casal	Spain	65:39.0	+4:54.0
12	Oli Johnson	Great Britain	66:12.0	+5:27.0
13	Audun Weltzien	Norway	67:04.0	+6:19.0
14	Christian Teich	Germany	67:41.0	+6:56.0
15	Robert Banach	Poland	69:12.0	+8:27.0
16	Vincent Coupat	France	69:17.0	+8:32.0
17	Christian Christensen	Denmark	70:20.0	+9:35.0
18	Jan Zazgornik	Austria	70:47.0	+10:02.0
19	Alessio Tenani	Italy	70:57.0	+10:12.0
20	Koji Kashimada	Japan	72:58.0	+12:13.0
21	Janez Pretnar	Slovenia	73:06.0	+12:21.0
22	Michael Adams	New Zealand	74:15.0	+13:30.0
23	Péter Vonyó	Hungary	76:35.0	+15:50.0
24	Oleksandr Marchuk	Ukraine	76:37.0	+15:52.0
25	Alexey Marchenko	Israel	76:46.0	+16:01.0
26	Dejan Avramovic	Republic Serbia	85:13.0	+24:28.0
27	İlyas Avci	Turkey	85:44.0	+24:59.0
28	Damir Klobučarić	Croatia	88:10.0	+27:25.0
29	Celso Moiteiro	Portugal	88:47.0	+28:02.0
30	Nicholas Mulder	South Africa	89:11.0	+28:26.0
31	Clem McGrath	United States	94:03.0	+33:18.0
32	Sam Choi Lam	Hong Kong	119:39.0	+58:54.0
	Rui Pan	China	MP	
	Patrick Goeres	Canada	MP	
	Chang-Chan Yang	Chinese Taipei	OVRT	



LONG FINAL - WOMEN

#	Name	Country	Time	
1	Dana Brožková	Czech Republic	84:26.0	
2	Marianne Andersen	Norway	85:09.0	+0:43.0
3	Annika Billstam	Sweden	85:28.0	+1:02.0
4	Anne Margrethe Hausken	Norway	86:14.0	+1:48.0
5	Signe Soes	Denmark	87:24.0	+2:58.0
6	Sofie Johansson	Sweden	88:09.0	+3:43.0
7	Minna Kauppi	Finland	88:14.0	+3:48.0
8	Eva Juřeníková	Czech Republic	89:39.0	+5:13.0
9	Emma Engstrand	Sweden	90:12.0	+5:46.0
10	Liisa Anttila	Finland	90:45.0	+6:19.0
11	Marianne Riddervold	Norway	91:46.0	+7:20.0
12	Seline Stalder	Switzerland	91:59.0	+7:33.0
13	Bernadett Kelemen	Hungary	92:05.0	+7:39.0
14	Kathryn Ewels	Australia	92:54.0	+8:28.0
15	Merja Rantanen	Finland	93:21.0	+8:55.0
16	Sarah Rollins	Great Britain	93:31.0	+9:05.0
17	Natalia Korzhova	Russia	94:08.0	+9:42.0
18	Esther Gil	Spain	94:09.0	+9:43.0
19	Caroline Cejka	Switzerland	94:23.0	+9:57.0
20	Martina Rákayová	Slovakia	94:56.0	+10:30.0
21	Jana Panchártková	Czech Republic	96:09.0	+11:43.0
22	Angela Wild	Switzerland	96:52.0	+12:26.0
23	Fanni Gyurkó	Hungary	97:26.0	+13:00.0
24	Aija Skrastina	Latvia	97:44.0	+13:18.0
25	Joanne Allison	Australia	98:23.0	+13:57.0
26	Sandy Hott	Canada	100:03.0	+15:37.0
27	Zsuzsa Fey	Romania	100:15.0	+15:49.0
28	Céline Dodin	France	100:20.0	+15:54.0
29	Merike Vanjuk	Estonia	101:43.0	+17:17.0
30	Sandra Pauzaite	Lithuania	101:49.0	+17:23.0
31	Michaela Gigon	Austria	101:54.0	+17:28.0
32	Iliana Shandurkova	Bulgaria	102:05.0	+17:39.0
33	Ane Linde	Denmark	103:27.0	+19:01.0
34	Jana Macinská	Slovakia	103:52.0	+19:26.0
35	Una Arama	Latvia	105:01.0	+20:35.0
36	Veronica Minoiu	Romania	106:00.0	+21:34.0
37	Natalaya Dimitrova	Bulgaria	106:07.0	+21:41.0
38	Rasa Ptasekaite	Lithuania	107:28.0	+23:02.0
39	Vanessa Round	Australia	109:11.0	+24:45.0
40	Anastasiia Danylova	Ukraine	109:33.0	+25:07.0
41	Louise Oram	Canada	110:50.0	+26:24.0
42	Ji Li	China	113:44.0	+29:18.0
	Riina Kuuselo	Finland	WTHD	
	Heli Jukkola	Finland	DNS	
	Tatiana Ryabkina	Russia	DNS	



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LONG FINAL - MEN

#	Name	Country	Time	
1	Daniel Hubmann	Switzerland	106:08.0	
2	Anders Nordberg	Norway	107:23.0	+1:15.0
3	François Gonon	France	108:05.0	+1:57.0
4	Andrey Khramov	Russia	109:30.0	+3:22.0
5	Matthias Merz	Switzerland	109:47.0	+3:39.0
6	Marián Dávidík	Slovakia	110:15.0	+4:07.0
7	Topi Anjala	Finland	110:17.0	+4:09.0
8	Olle Kärner	Estonia	110:18.0	+4:10.0
9	Martin Johansson	Sweden	110:38.0	+4:30.0
10	Jamie Stevenson	Great Britain	110:49.0	+4:41.0
11	Carl Waaler Kaas	Norway	111:39.0	+5:31.0
12	Kiril Nikolov	Bulgaria	111:49.0	+5:41.0
13	Michal Smola	Czech Republic	111:50.0	+5:42.0
14	Marc Lauenstein	Switzerland	112:20.0	+6:12.0
15	Philippe Adamski	France	112:39.0	+6:31.0
16	Dmitriy Tsvetkov	Russia	112:52.0	+6:44.0
17	Mikhail Mamleev	Italy	113:13.0	+7:05.0
18	Erik Öhlund	Sweden	113:15.0	+7:07.0
19	Audun Weltzien	Norway	113:34.0	+7:26.0
20	Roman Efimov	Russia	113:59.0	+7:51.0
21	Scott Fraser	Great Britain	115:23.0	+9:15.0
22	Rasmus Soes	Denmark	115:28.0	+9:20.0
23	Oli Johnson	Great Britain	115:36.0	+9:28.0
24	Jan Mrázek	Czech Republic	115:43.0	+9:35.0
25	Yuri Omelchenko	Ukraine	115:53.0	+9:45.0
26	Lukáš Barták	Slovakia	116:25.0	+10:17.0
26	Ruslan Glibov	Ukraine	116:25.0	+10:17.0
28	Mats Troeng	Sweden	117:10.0	+11:02.0
29	Mats Haldin	Finland	117:35.0	+11:27.0
30	Ádám Kovács	Hungary	117:43.0	+11:35.0
31	Fabien Pasquasy	Belgium	118:12.0	+12:04.0
32	Robert Banach	Poland	119:16.0	+13:08.0
33	Edgars Bertuks	Latvia	119:26.0	+13:18.0
34	Klaus Schgaguler	Italy	119:51.0	+13:43.0
35	Christian Teich	Germany	119:57.0	+13:49.0
36	Antti Harju	Finland	120:19.0	+14:11.0
37	David Schneider	Switzerland	120:26.0	+14:18.0
38	Janis Krumins	Latvia	120:34.0	+14:26.0
39	Ionut Alin Zinca	Romania	122:06.0	+15:58.0
40	Roger Casal	Spain	123:13.0	+17:05.0
41	Markus Lang	Austria	125:28.0	+19:20.0
42	Pavel Gvozdev	Israel	125:54.0	+19:46.0
43	Jonas Vytautas Gvildys	Lithuania	132:18.0	+26:10.0
44	Ross Morrison	New Zealand	136:56.0	+30:48.0
	Csaba Gösswein	Hungary	DNS	



RELAY - WOMEN

#	Country	Time	Name	Time
1	Finland	133:14.0	1. Katri Lindeqvist	43:44.0
			2. Merja Rantanen	44:17.0
			3. Minna Kauppi	45:13.0
2	Russia	135:49.0 +2:35.0	1. Galina Vinogradova	41:53.0
			2. Yulia Novikova	45:53.0
			3. Tatiana Ryabkina	48:03.0
3	Sweden	136:27.0 +3:13.0	1. Annika Billstam	42:10.0
			2. Sofie Johansson	43:46.0
			3. Helena Jansson	50:31.0
4	Switzerland	137:08.0 +3:54.0	1. Ines Brodmann	42:42.0
			2. Vroni Koenig-Salmi	42:20.0
			3. Lea Mueller	52:06.0
5	Czech Republic	138:22.0 +5:08.0	1. Radka Brožková	42:10.0
			2. Eva Juřeníková	45:45.0
			3. Dana Brožková	50:27.0
6	Norway	140:04.0 +6:50.0	1. Marianne Riddervold	42:59.0
			2. Marianne Andersen	45:05.0
			3. Anne Margrethe Hausken	52:00.0
7	China	149:37.0 +16:23.0	1. Mingyue Zhu	45:58.0
			2. Shuangyan Hao	47:19.0
			3. Ji Li	56:20.0
8	Australia	150:01.0 +16:47.0	1. Joanne Allison	43:13.0
			2. Grace Elson	48:49.0
			3. Kathryn Ewels	57:59.0
9	Latvia	150:16.0 +17:02.0	1. Inga Dambe	44:12.0
			2. Zanda Abzalone	50:20.0
			3. Aija Skrastina	55:44.0
10	Hungary	153:59.0 +20:45.0	1. Fanni Gyurkó	46:06.0
			2. Éva Makrai	47:53.0
			3. Ildikó Szerencsi	60:00.0
11	Slovakia	154:04.0 +20:50.0	1. Katarína Labašová	51:44.0
			2. Jana Macinská	49:05.0
			3. Martina Rákayová	53:15.0
12	Great Britain	154:16.0 +21:02.0	1. Pippa Whitehouse	49:04.0
			2. Rachael Elder	48:53.0
			3. Sarah Rollins	56:19.0
13	Estonia	154:53.0 +21:39.0	1. Annika Rihma	44:32.0
			2. Merike Vanjuk	51:30.0
			3. Liis Johanson	58:51.0
14	France	155:48.0 +22:34.0	1. Capucine Vercellotti	44:00.0
			2. Amélie Chataing	53:17.0
			3. Céline Dodin	58:31.0
15	Germany	156:54.0 +23:40.0	1. Elisa Dresen	47:57.0
			2. Esther Doetsch	51:48.0
			3. Meike Jaeger	57:09.0



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16	Ukraine	157:30.0	+24:16.0	1. Iaroslava Trygubiak	46:19.0
				2. Olga Syvoronova	54:47.0
				3. Nadiya Volynska	56:24.0
17	Bulgaria	157:48.0	+24:34.0	1. Natalaya Dimitrova	47:36.0
				2. Iliana Shandurkova	46:59.0
				3. Stefaniya Dimitrova	63:13.0
18	Lithuania	160:45.0	+27:31.0	1. Indre Valaite	56:14.0
				2. Sandra Pauzaite	46:37.0
				3. Inga Kazlauskaite	57:54.0
19	Spain	162:32.0	+29:18.0	1. Esther Gil	47:30.0
				2. Ona Rafols	51:51.0
				3. Annabel Fernandez	63:11.0
20	Denmark	167:05.0	+33:51.0	1. Line Søderlund	59:22.0
				2. Ane Linde	50:46.0
				3. Signe Soes	56:57.0
21	United States	173:25.0	+40:11.0	1. Samantha Saeger	48:42.0
				2. Sandra Zürcher	58:57.0
				3. Hillary Saeger	65:46.0
22	Austria	176:12.0	+42:58.0	1. Thea Lillehov	50:27.0
				2. Anita Seeböck	57:37.0
				3. Michaela Gigon	68:08.0
23	Canada	185:33.0	+52:19.0	1. Victoria Smith	61:21.0
				2. Heather Smith	62:43.0
				3. Louise Oram	61:29.0
24	Ireland	196:58.0	+63:44.0	1. Niamh O Boyle	58:20.0
				2. Ciara Largey	62:28.0
				3. Ailbhe Creedon	76:10.0
25	Japan	199:03.0	+65:49.0	1. Yoko Bamba	48:11.0
				2. Madoka Kogure	72:05.0
				3. Naoko Kanoh	78:47.0
26	Portugal	215:02.0	+81:48.0	1. Raquel Costa	60:57.0
				2. Maria Sa	67:40.0
				3. Susana Pontes	86:25.0



RELAY - MEN

#	Country	Time		Name	Time
1	Great Britain	138:17.0		1. Graham Gristwood	43:45.0
				2. Jon Duncan	45:04.0
				3. Jamie Stevenson	49:28.0
2	Russia	138:58.0	+0:41.0	1. Dmitriy Tsvetkov	45:47.0
				2. Andrey Khramov	44:30.0
				3. Valentin Novikov	48:41.0
3	Switzerland	141:49.0	+3:32.0	1. Baptiste Rollier	46:37.0
				2. Matthias Merz	43:41.0
				3. Daniel Hubmann	51:31.0
4	Czech Republic	142:27.0	+4:10.0	1. Jan Procházka	43:44.0
				2. Michal Smola	46:46.0
				3. Tomáš Dlabaja	51:57.0
5	Latvia	142:53.0	+4:36.0	1. Edgars Bertuks	43:37.0
				2. Janis Krumins	47:37.0
				3. Martins Sirmas	51:39.0
6	Finland	143:21.0	+5:04.0	1. Pasi Ikonen	44:08.0
				2. Jarkko Huovila	47:24.0
				3. Tero Föhr	51:49.0
7	Norway	144:03.0	+5:46.0	1. Lars Skjeset	44:42.0
				2. Anders Nordberg	47:46.0
				3. Øystein Kvaal Østerbø	51:35.0
8	Sweden	144:13.0	+5:56.0	1. Erik Öhlund	45:45.0
				2. Martin Johansson	46:07.0
				3. Peter Öberg	52:21.0
9	Slovakia	147:05.0	+8:48.0	1. Pavol Bukovac	46:33.0
				2. Marián Dávidík	48:05.0
				3. Lukáš Barták	52:27.0
10	Hungary	147:39.0	+9:22.0	1. Ádám Kovács	46:38.0
				2. Csaba Gösswein	43:51.0
				3. Zsolt Lenkei	57:10.0
11	Austria	148:03.0	+9:46.0	1. Gernot Kerschbaumer	44:30.0
				2. Felix Breitschädel	47:51.0
				3. Martin Binder	55:42.0
12	Poland	148:36.0	+10:19.0	1. Wojciech Dwojak	47:57.0
				2. Robert Banach	46:11.0
				3. Wojciech Kowalski	54:28.0
13	Italy	151:32.0	+13:15.0	1. Michele Tavernaro	46:55.0
				2. Klaus Schgaguler	47:15.0
				3. Mikhail Mamleev	57:22.0
14	Ukraine	151:51.0	+13:34.0	1. Ruslan Glibov	44:33.0
				2. Oleksandr Kratov	48:21.0
				3. Pavlo Ushkvarok	58:57.0
15	Australia	152:13.0	+13:56.0	1. David Shepherd	47:28.0
				2. Simon Uppill	49:13.0
				3. Julian Dent	55:32.0



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16	Germany	152:50.0	+14:33.0	1. Alexander Lubina	45:36.0
				2. Christian Teich	48:33.0
				3. Torben Wendler	58:41.0
17	Bulgaria	158:50.0	+20:33.0	1. Nikolay Dimitrov	50:13.0
				2. Ivaylo Kamenarov	52:25.0
				3. Kiril Nikolov	56:12.0
18	Lithuania	159:10.0	+20:53.0	1. Vilius Aleliunas	54:15.0
				2. Darius Sadeckas	50:44.0
				3. Simonas Krepsta	54:11.0
19	Belgium	161:20.0	+23:03.0	1. Fabien Pasquasy	46:11.0
				2. Michel Bastin	52:29.0
				3. Bart Delobel	62:40.0
20	Estonia	161:59.0	+23:42.0	1. Sander Vaher	47:44.0
				2. Erkki Aadli	47:56.0
				3. Peeter Pihl	66:19.0
21	New Zealand	167:59.0	+29:42.0	1. Michael Adams	49:09.0
				2. Ross Morrison	46:19.0
				3. Neil Kerrison	72:31.0
22	Japan	172:25.0	+34:08.0	1. Daisuke Yamaguchi	49:20.0
				2. Shigeyuki Koizumi	53:49.0
				3. Koji Kashimada	69:16.0
23	Spain	176:13.0	+37:56.0	1. Daniel Portal	56:09.0
				2. Lluís Ferrer	62:03.0
				3.	58:01.0
24	Canada	176:29.0	+38:12.0	1. Patrick Goeres	54:19.0
				2. Wil Smith	60:31.0
				3. Mike Smith	61:39.0
25	Slovenia	182:01.0	+43:44.0	1. Andraž Hribar	50:15.0
				2. Jaka Piltaver	58:45.0
				3. Janez Pretnar	73:01.0
26	United States	182:40.0	+44:23.0	1. Eric Bone	54:10.0
				2. Eddie Bergeron	58:01.0
				3. Ross Smith	70:29.0
27	Romania	186:17.0	+48:00.0	1. Ionut Alin Zinca	47:43.0
				2. Tamas Bogya	56:42.0
				3. Marius Anghel	81:52.0
28	China	188:51.0	+50:34.0	1. Guilong Li	57:48.0
				2. Bin Cao	61:12.0
				3. Rui Pan	69:51.0
29	Croatia	188:53.0	+50:36.0	1. Matjaž Štanfel	59:13.0
				2. Damir Klobučarić	66:20.0
				3. Lino Legac	63:20.0
30	Portugal	189:25.0	+51:08.0	1. Joaquim Sousa	54:18.0
				2. Celso Moiteiro	64:50.0
				3. Pedro Nogueira	70:17.0
31	Republic Serbia	195:49.0	+57:32.0	1. Dejan Avramovic	60:48.0



				2. Igor Vukovic	60:54.0
				3. Cedomir Paunovic	74:07.0
32	Ireland	207:24.0	+69:07.0	1. Andrew Quin	70:50.0
				2. Patrick Higgins	66:40.0
				3. Neil Dobbs	69:54.0
33	South Africa	231:35.0	+93:18.0	1. Eugene Botha	82:27.0
				2. Paul Wimberley	78:29.0
				3. Nicholas Mulder	70:39.0
	France	DISQ		1. François Gonon	43:15.0
				2. Damien Renard	45:58.0
				3. Thierry Gueorgiou	DISQ
	Denmark	DISQ		1. Mikkel Lund	45:27.0
				2. Christian Christensen	48:33.0
				3. Tue Lassen	DISQ
	Turkey	DISQ		1. Mehmet Bekmez	62:32.0
				2. Musa Erdoğan	80:59.0
				3. İlyas Avci	DISQ





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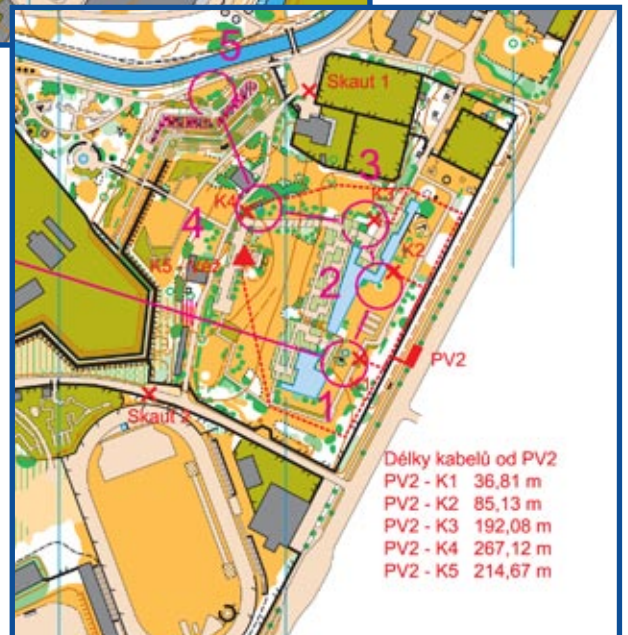
Závod	Délka [km]	Převýšení [m]	Počet kontrol	Počet občerstv. stanic
Sprint Qualification				
Women A	2.4	10	14	-
Women B	2.4	10	14	-
Women C	2.4	10	14	-
Men A	2.8	10	17	-
Men B	2.8	10	17	-
Men C	2.8	10	17	-
Sprint Final				
Women	2.5	45	17	-
Men	3.0	45	17	-
Long Distance Qualification				
Women A	7.1	275	15	1
Women B	7.1	235	16	1
Women C	7.1	270	15	1
Men A	10.8	410	21	2
Men B	10.9	400	21	2
Men C	10.9	400	20	2
Middle Distance Qualification				
Women A	3.9	110	16	-
Women B	3.9	120	16	-
Women C	3.8	110	16	-
Men A	4.8	140	18	-
Men B	4.8	125	18	-
Men C	4.7	130	19	-
Middle Distance Final				
Women	4.8	200	23	1
Men	5.8	245	27	1
Long Distance Final				
Women	11.9	440	24	4
Men	17.3	750	36	4
Relay Final				
Women leg 1	5.6-5.8	275	17	1
Women leg 2	5.6-5.8	275	17	1
Women leg 3	6.9-7.0	300	22	1
Women total	120 min			
Men leg 1	7.4-7.6	350	23	1
Men leg 2	7.4-7.6	350	23	1
Men leg 3	8.1-8.4	400	27	1
Men total	134 min			



Appendix 5

5. Example of planning and realising of TV coverage

Location of TV cameras during Sprint Final race

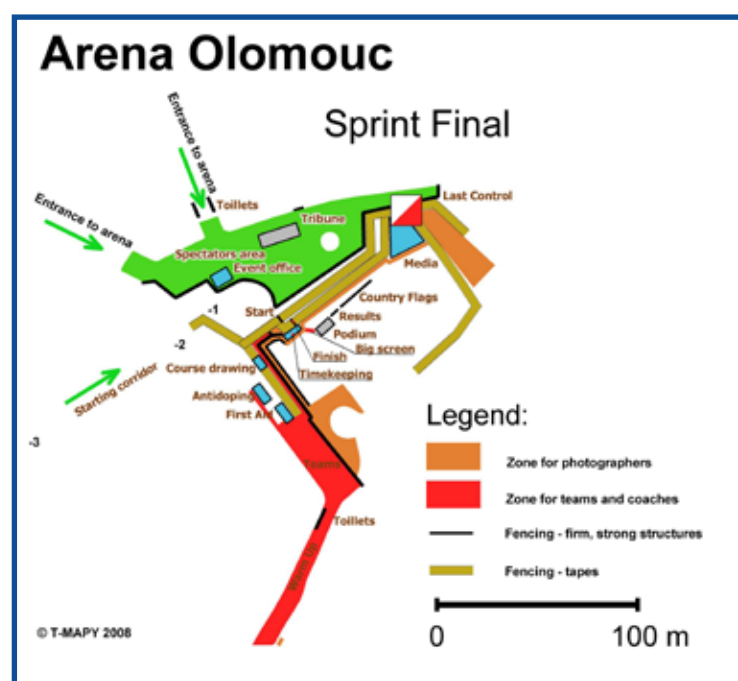


TV úsek, schéma

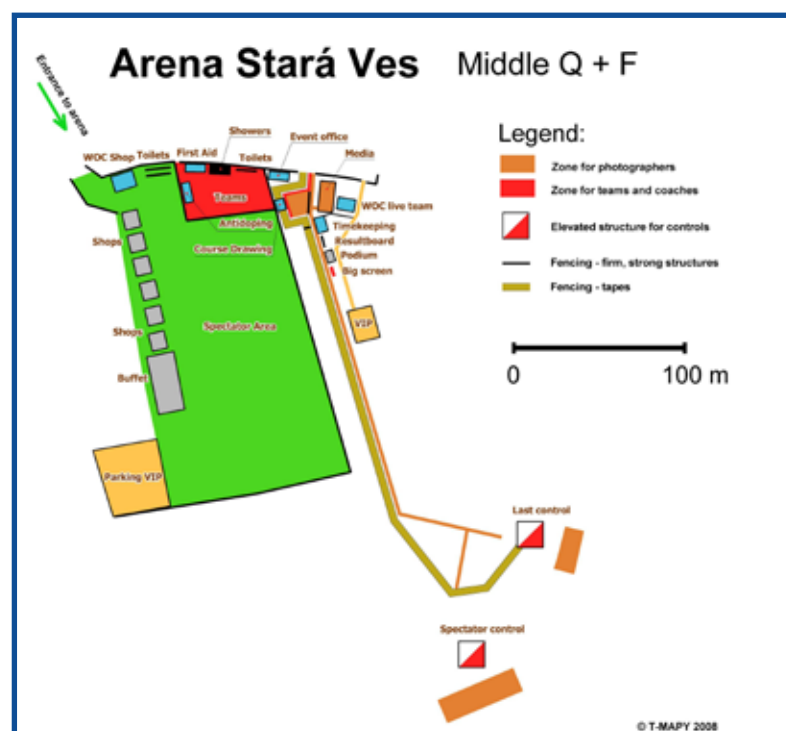


6. Maps of arenas for the Final races

Sprint



Middle





Appendix 6

Long

Arena Skřípov

Long



Legend:

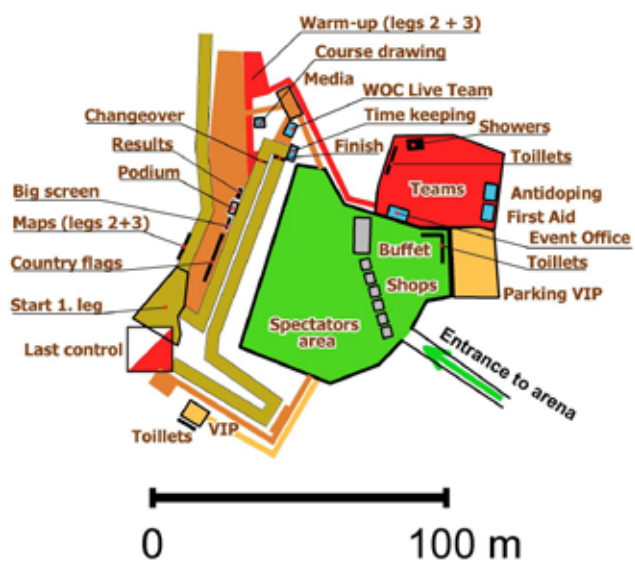
- Zone for photographers
- Zone for teams and coaches
- Fencing - firm, strong structures
- Fencing - tapes

© T-MAPY 2008

Relay

Arena Skřípov

Relay



Legend:

- Zone for photographers
- Zone for teams and coaches
- Fencing - firm, strong structures
- Fencing - tapes

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