

*Night orienteering in the dark forest  
together with more than one thousand  
other competitors is a unique experience.*

PHOTO: KEITH SAMUELSON



# In a mass start race you may follow your opponents with a clear conscience

BY TOMMI ROIMELA

In a relay competition it is frowned on and in an individual start situation it is absolutely forbidden according to the rules of competition. You may well ask what? – The answer is following other competitors, or what ever one might want to call it.

*"All sorts of mutual/reciprocal help and co-operation between two or more competitors is forbidden. It is forbidden to deliberately follow another competitor or run with him with the purpose of taking advantage of his orienteering skills. This does not apply to competitors in a mass start race."*

The above rules can be found in many national competition rules for orienteering. These clauses leave no room for doubt, pure collaboration between two competitors is still forbidden. What also appears in the rules though – both in respect to mass start and relay competitions – is that you are allowed to benefit from other orienteers' skills. Why is this so?

In relay, chasing start and mass start competitions the idea of the race is to fight man against a man or team against a team. The very essence of this kind of competition is for example between the last leg runners in a relay race, the reciprocal battle. Prohibiting following would damage the spirit of the competition.

Since following is possible in a mass start race, one might easily think that it's easy to win just by running after other competitors. This is not the case as the course planners do use a weapon of their own – the spreading method, also called forking or *gaffling* in Scandinavia.

## Same course legs in different order

The idea of a spreading system is very simple. Runners don't visit the controls in the same order, but when the finish is

reached, every orienteer (in a mass start or a chasing start race) or team (in a relay) will have run all the same course legs. Because of this spreading system, an orienteer will not be able to know whether the runner in front of him in the forest is heading to the same control.

Especially in big relay competitions, spreading can be made to be very complicated. For example in the Jukola relay in Finland, the first legs are usually spread out so that besides "forked" controls of his own an orienteer will have some controls which are the same for some other competitors too. In this way the chance of two runners having exactly the same course will be diminished. Furthermore, a clever course planner will place the controls in such a way that a careless orienteer will easily make a mistake and will end up on the wrong course (control combination). Different courses may cross each other so that orienteers on different courses will be running in contrary directions and a careless orienteer, again, may easily be tempted into heading in the wrong direction.

Well-planned courses are the planner's best way of preventing following. If

there are enough possibilities for different route choices, a group of orienteers will soon split up naturally as not all of them will make the same route choice and take the same route.

## Will following be allowed in the future?

Many people think that the rule forbidding following is already outdated in individual competitions with interval starts as well. The differences between elite competitors at the top level are nowadays very small and therefore when an orienteer is caught by a later-starting competitor, the game is usually already over. One of the arguments of critics is that following is almost impossible to control. The word of one competitor against that of another about following is not necessarily enough for disqualification.

According to those who support allowing following, it is pointless to try to benefit from following another competitor. They say nobody can build his orienteering career upon following. Some people consider following to be a kind of a competition tactic, even if a fairly dubious one.

**In relays and other mass start events, the course planners use spreading methods to ensure fairness.**

PHOTO: TEEMU VIRTANEN







*The use of electronic punching systems makes it easy to verify that the athlete has visited the controls in the correct order.*

PHOTO: TEEMU VIRTANEN

# Orienteering – an ethical sport

BY IAIN ROCHFORD

**E**thics in sport can encompass a whole range of moral issues: adhering to rules and regulations, fair play, attitude to artificial performance enhancing methods and numerous others. How then are ethical aspects dealt with in the sport of orienteering?

Orienteering can be defined as “independent navigation around a given course with the controls in a set order”. The essence of the sport is to do this independently and the only permitted aids are of course the traditional ones of map and compass. Consequently, some of the new products arising from recent technological developments, such as GPS (Global Positioning

Systems), are not allowed.

## **New technology used to ensure fairness**

Some of these technological developments on the other hand have made their appearance into the sport, but rather on the organisational side. The traditional method of checking that the competitors have completed the course and visited all the checkpoints in the set order is to check the control cards which the runners ‘punch’ at each control. The recent introduction of electronic timing systems, which allow the organisers to see the exact time when the runner visits the control, makes it easy to verify that

the controls have indeed been visited in the correct order. Instead of a card, the runners now carry a small dibber on their finger which contains an electronic chip that records the time when the control is ‘punched’.

As well as making the verification procedure very efficient, the electronic timing and punching systems consequently now make it possible for course planners to devise courses that can now cross over and have a number of controls which shall be visited at different stages of the course to be located close together. The possibility of ‘taking controls out of order’ is now thus a thing of the past.



To those who are not familiar with orienteering, a common question is doesn't everyone just follow each other? The answer of course is that orienteering races are normally run as time trials, that is competitors start at intervals. The only races where there is man-to-man competition is in relay races or mass start races. These races however usually have some sort of spreading system so that although all runners (or teams) will visit the same controls, it will not be in the same order. This if a runner tries to follow another, it is not certain that both the runners will be going to the same control. 'Following' is also expressly prohibited in the IOF rules.

### **Orienteers show respect for others**

One other ethical aspect which often arises is respecting out-of-bounds areas, and thus the wishes of other parties who also have an interest in the natural areas that our sport uses. When organising an orienteering race, the organisers take into account the wishes and requests of the landowners, hunters and nature and environmental organisations. Any especially sensitive areas will be indicated on the map as prohibited and often also marked in the terrain by tape or stationing marshals at strategic points. It is also normal, particularly in Scandinavia, to carry out a "drive" in the early morning before the race so that elk and deer are led into pockets of terrain that allow the animals to be left undisturbed during the actual race. The race planner will have planned the courses around these areas, and research shows that the animals return to their normal areas very quickly after the orienteering race is over. In certain times of the year which are sensitive for wildlife, such as the bird nesting season and when young animals have just been born, it is common that organisers will avoid using such exposed areas, and may use less sensitive areas instead.

Orienteering is a sport in which the competitors are used to taking the correct route choice decisions quickly and effectively. It would not be surprise then if this also applied in respect to ethical decisions as well.

*When planning the orienteering courses, the organiser takes into account the wishes and requests of other interest groups such as landowners and hunters.*

PHOTO: KEITH SAMUELSON







*Ski orienteers have come closer to ski stadiums and to spectators. The photo shows Swedish Tomas Löfgren and Ukrainian Andriy Kubin at the 2002 World Championships long distance event in Bulgaria.*

PHOTO: TEEMU VIRTANEN

# Even familiar terrain can be strange enough

BRINGING SKI ORIENTEERING EVENTS INTO SKI STADIUMS CREATES A CONTRADICTION

BY TOMMI ROIMELA

**D**uring the past years ski orienteers have come closer and closer to ski stadiums. Today most ski orienteering competitions are indeed held on well-known ski stadiums. It is of course easier for the organisers as the permanent ski tracks can be used as the basis for the network of ski orienteering tracks. On the other hand it can cause a few problems as

some of the competitors may be familiar with the terrain. Is the sense of fairness in danger in this situation?

Pekka Varis, a member of the IOF Ski Orienteering Commission, thinks the current trend is absolutely right. Varis, who led the Ski Orienteering World Cup 1997 almost as he liked

until he became injured at the end of the season, and who won silver in the 1998 World Ski Orienteering Championships classic distance, stresses though that fairness has to be the primary objective.

– I think it's right to bring the competition into a stadium. It makes the technical preparations easier, and the



network of ski tracks is often already there. For the local visibility of the sport it's also important to have top orienteers from the respective region taking part in the event.

Nevertheless, special care should always be devoted to issues of fairness. A "fair" competition situation doesn't come automatically, Varis points out. You can't just take people to the ski stadium and let them ski.

– All aspects have to be thought through carefully for each event. It's quite rare for anyone to have a real advantage from knowing the terrain, but occasionally even a little help from advance knowledge of the terrain can be decisive, he says.

It would be ideal if athletes had such high ethical standards that they wouldn't compete in terrain they are "too" familiar with. But you cannot really expect that will be the case.

– It's a difficult question. If someone is competing in the terrain he actually knows very well, the threshold to withdraw from a race in the future gets higher for others too. You can't just leave it up to an athlete's ethical attitude, but the organiser and the IOF Event Advisor have to judge it carefully on a case by case basis, he stresses.

### **Getting to know the terrain already before the competition**

There is a definitive trend that ski orienteering events will be drawn to ski stadiums. Inevitably there will be situations where some of the athletes know the ski tracks better than others. However, there are ways to make it fair to everybody.

– One important thing is to make the dashed tracks unforeseeable. This means that you don't use the paths which already exist in terrain, but the tracks are made in the virgin forest, proposes Varis.

His idea is that when the tracks are manmade, you can use the same terrain again in the future. Then you just make the tracks differently, and the network will again be unknown

for all competitors. Another way to ensure fairness is very simple. If someone knows the terrain, let's make it possible for everybody else too.

– If you feel that someone has a real advantage from knowing the terrain, you can try to make things more equal for the other competitors by having the model event in a part of the competition terrain, or even allow competitors to ski the model event on the permanent tracks of the competition course. For example, before the World Ski Orienteering

Championships 2004 in Sweden, there will be a training day for everybody in Åsarna in conjunction with the ski orienteering World Cup 2003, and one week is reserved for training during the summer 2003 in the very same terrain, he relates.

Varis believes though that there is not just one correct way in which to deal with the issue of fairness:

– I think that all means of ensuring fairness, including the possibility of embargoing the terrain should always be considered on a case by case basis, he concludes.



*Former world elite ski orienteer Pekka Varis is now a member of the IOF Ski Orienteering Commission.*

PHOTO: PIIRIO VALIANEN



# Trail orienteering – the ultimate in 'fair' sport

BY DON BRAGGINS

In the great majority of sports adapted for those with physical (mobility) disabilities, it is necessary to classify participants by the degree or type of disability, by age, or by sex. By contrast, a form of orienteering does not need any such classification. This version of the sport is called trail orienteering, and it has evolved from 'handicap orienteering' originally developed in Sweden solely for people with disabilities. Today, trail orienteering is open to everybody and practised in some twenty different countries on four continents.

## **Speed doesn't count**

In foot orienteering, competitors must interpret the detailed map while running; the winner is the one who completes the course in the shortest time having found all the control points. The key to success is a combination of map reading and interpretation skills plus fleetness of foot; the faster you run, the harder it is to think, of course!

Trail orienteering completely eliminates the element of speed over the ground, but makes the map-interpretation element much harder. In many events there are different classes on offer to cater for different levels of experience. However, the degree of disability has nothing to do with the different classes. Depending on the level of difficulty, up to five control markers are hung at each site and only one will correspond exactly with the control description and control circle position. Indeed, in the elite class, one possible answer is 'None of the controls corresponds'. The control sites are chosen so that they can be seen from a wheelchair-navigable path or area, but they may be quite a distance into the forest.

The primary ranking of the competi-

tors is made on the basis of the total number of correctly identified control sites. As this ranking is likely to leave several competitors with the same score, there is a second element based on thinking time – the participants have to identify one or two controls which act as a tie breaker. At such a 'time control' the competitor receives a 'clean' map with just one control circle and one description on

it. The time used by the competitor to make the decision is recorded. The shorter the decision time, the higher the ranking against other competitors with an equal number of correct scores.

## **Escorts to provide physical help**

An escort can provide physical help to the competitor – by pushing a



*In trail orienteering, escorts can provide physical help, for example by pushing a wheelchair.*

PHOTO: KEITH SAMUELSON





*Depending on the level of difficulty, up to five control markers are hung at each site and only one will correspond with the correct control description and the control circle position on the map.*

PHOTO: KEITH SAMUELSON

chair, holding and orientating map and compass, even marking the control card with the decision according to the competitor's instructions. However, escorts may not help in the decision-making process; they can give as much physical help as may be necessary, but must not offer any advice or opinions to the competitor, nor interrupt their concentration. In elite competitions, escorts are allotted to the competitors at random so that they do not know the individual they are helping.

This is perhaps where there is most need for flexibility in dealing with competitors having different kinds of disability. Ideally the competitor points to the box (A, B etc) on a board in front of them one of the markers, i.e. A, B, etc. as soon as the choice is made. This overcomes any language problems and avoids the possibility of the choice being heard by waiting competitors who are held

back some distance from the site. However, if the competitor does not have the use of arms or hands, it may be necessary to use a verbal response. In some cases it may also be necessary to provide a helper who is familiar with the person's speech or other method of communication to help interpret the decision, without looking at the map or terrain themselves.

#### **Able-bodied are not at an advantage**

No-one must leave the path (trail) to gain the advantage of looking all around a control site. Because of this rule, able-bodied and wheelchair users, all compete equally. Obviously, all the control markers must be hung so that they can be seen by anyone in a seated position on the trail, and course-setters and controllers check on visibility from a seated position. At the time controls, all competitors

are required to sit so that the viewing perspective is the same for all. Control markers are hung at a standard height above the ground, so that they indicate the contours of the ground even if the ground itself is below the line of site. There is always some way in which any competitor can arrive unequivocally at the correct answer – the skill is for the course setter not to make this too obvious.

Even if the trail orienteering course must be accessible to the least mobile, smooth paths are not necessarily needed. In fact, it can be much more enjoyable for disabled participants if they do get 'off the beaten track' for a change. Even an 'out and back' single track, provided it has some good features visible from it, will do – though a loop is preferable. Extra 'pushers' can be stationed at steep sections; sometimes they use ropes and become 'pullers' instead!







# A long and testing World Cup season

BY CLIVE ALLEN

**T**he World Cup took centre stage this year, with seventeen events staged in six countries - Belgium, Switzerland, Norway, Sweden, Hungary and the Czech Republic. Simone Luder, Switzerland and Bjørnar Valstad, Norway are the top names in the individual standings after the finals in the Czech Republic at the beginning of October; Norway's women and Finland's men took the relay gold medals.

## Eight wins for Luder

Simone Luder, 24 years old, has dominated women's orienteering this year, winning eight of the thirteen World Cup individual races - five long distance, one middle distance and two sprints. Such was her dominance that overall victory was already assured before the individual final. A Biology student, she finishes her studies in the spring and will then concentrate on preparing for the 2003 World Championships to be held in her home country in August. "I haven't yet reached my top level in training", she says, and vows to be stronger mentally, physically and technically next year. She will be aiming to improve on the 1 gold and 1 bronze medal she won at the Finland World Championships in 2001.

Behind Luder competition was tight and compatriot Vroni König-Salmi took second place in the World Cup standings, albeit 60 points behind, through victory in the final race. Hanne Staff, Norway finished third in the table, 7 points further down.

## Final decisive for Valstad

The men's competition remained open right to the end. Pasi Ikonen, Finland, made the best start to the season and led the standings by 13 points ahead of the final round of races. He suffered injury and loss of form, however, and



Norwegian Bjørnar Valstad, here surrounded by young fans, rated this World Cup success second only to his World Championship victory in Scotland in 1999.

PHOTO: ERIK BORG

ended up fourth overall. Bjørnar Valstad with two race victories and a second place behind him was well placed to take over the lead, but had to resist strong challenges from Michael Mamleev, Russia and Mats Haldin, Finland who finished second and third respectively in the final standings.

Valstad heads the final table by 10 points. "Victory is really important for me", said Valstad, now 35. He rated this success second only to his World Championship victory in Scotland in 1999.

## Relay gold for Norway and Finland

Norway's women have shown excellent form throughout the season and were rewarded with victory in the final where the race order - Norway first, Switzerland second and Sweden third - became also the order in the final standings. Finland finished fourth overall and Great Britain fifth.

Finland dominated the men's relay competition, winning three of the four races, but it was a close final with Denmark only 16 seconds behind Finland at the finish. Sweden finished third in the final, good enough for second place in the overall table, with Denmark taking third place in the standings ahead of Switzerland and Norway.

## World Cup in the public eye

The 2002 programme proved a true test of orienteering skills, with every discipline represented and some interesting innovations in race design. Orienteering in an urban environment featured more prominently than ever before in the World Cup, bringing international-level competition yet more into the public eye. Another success story in this direction was the World Cup Web Portal on the IOF website, which recorded hundreds of hits on results, stories, photos and standings for every race in the series.





Simone Luder has dominated women's orienteering this year, winning eight of the thirteen World Cup individual races. Her overall victory was already assured before the individual final. Hanne Staff, Norway ended up third overall.

PHOTO: ERIK BORG

## World Cup 2002

### FINAL STANDINGS

#### Men

1) Bjørnar Valstad NOR 358, 2) Michael Mamleev RUS 348, 3) Mats Haldin FIN 347, 4) Pasi Ikonen FIN 326, 5) Jani Lakanen FIN 319, 6) Yuri Omeltchenko UKR 312, 7) Thomas Bührer SUI 292, 8) Holger Hott Johansen NOR 291, 9) Gábor Domonyik HUN 259, 10) Jamie Stevenson GBR 259, 11) Janne Salmi FIN 242, 12) Thomas Asp SWE 234, 13) Carsten Jørgensen DEN 228, 14) Valentin Novikov RUS 221, 15) Jon Duncan GBR 213, 16) Thierry Gueorgiou FRA 212, 17) Fredrik Löwegren SWE 210, 18) Robert Banach POL 208, 19) Håkan Pettersson SWE 207, 20) Johan Näsman SWE 207, 21) Janusz Porzycz POL 207, 22) Jarkko Huovila FIN 206, 23) Francois Gonon FRA 198, 24) Marian Davidik SVK 195, 25) Tore Sandvik NOR 188, 26) Mattias Karlsson SWE 187, 27) Hans Gunnar Omdal NOR 165, 28) René Rokkjær

DEN 160, 29) Emil Wingstedt SWE 155, 30) Donatus Schnyder SUI 131.

#### Women

1) Simone Luder SUI 434, 2) Vroni König-Salmi SUI 374, 3) Hanne Staff NOR 367, 4) Gunilla Svärd SWE 356, 5) Katarina Allberg SWE 333, 6) Heather Monro GBR 313, 7) Karin Hellman SWE 313, 8) Emma Engstrand SWE 303, 9) Birgitte Husebye NOR 301, 10) Brigitte Wolf SUI 299, 11) Anette Granstedt SWE 292, 12) Jenny Johansson SWE 274, 13) Karin Schmalfeld GER 267, 14) Tatyana Riabkina RUS 254, 15) Anne Margarethe Hausken NOR 252, 16) Elisabeth Ingvaldsen NOR 237, 17) Liisa Anttila FIN 233, 18) Regula Hulliger SUI 205, 19) Sara Gemperle SUI 200, 20) Anna Gornicka-Antonowicz POL 185, 21) Heli Jukkola FIN 182, 22) Zsuzsa Fey ROM 174, 23) Satu Vesalainen FIN 163, 24) Sarah Rollins GBR 163, 25) Brigitte Grüniger SUI 152, 26) Karina Nordrum NOR 145, 27) Jo Allison AUS 143, 28) Paula Haapakoski FIN 139, 29) Barbara Baczek POL 132, 30) Hannah Wootton GBR 129.

#### RELAY

##### Men

1) Finland 60, 2) Sweden 47, 3) Denmark 43, 4) Switzerland 38, 5) Norway 37, 6) Great Britain 32, 7) France 30, 8) Russia 30, 9) Australia 26, 10) Czech Republic 22, 11) Slovakia 20, 12) Poland 13, 13) Germany 11, 14) Belgium 9, 15) Austria 8, 16) Estonia 6, 17) Hungary 6, 18) Lithuania 6, 19) Italy 5, 20) New Zealand 4, 21) Israel 0, 21) Ireland 0, 21) Japan 0, 24) Ukraine 0, 24) USA 0, 24) Bulgaria 0, 24) Spain 0, 24) Latvia 0, 24) Belarus 0, 24) Croatia 0, 24) Yugoslavia 0.

##### Women

1) Norway 57, 2) Switzerland 54, 3) Sweden 50, 4) Finland 41, 5) Great Britain 29, 6) Germany 26, 7) Czech Republic 26, 8) Denmark 23, 9) Poland 23, 10) Lithuania 19, 11) France 16, 12) Italy 14, 13) Russia 13, 14) Slovakia 12, 15) Australia 8, 15) Romania 8, 17) Hungary 5, 18) Austria 4, 19) Ukraine 3, 20) Bulgaria 2, 21) Spain 1, 22) Latvia 0, 22) Estonia 0.



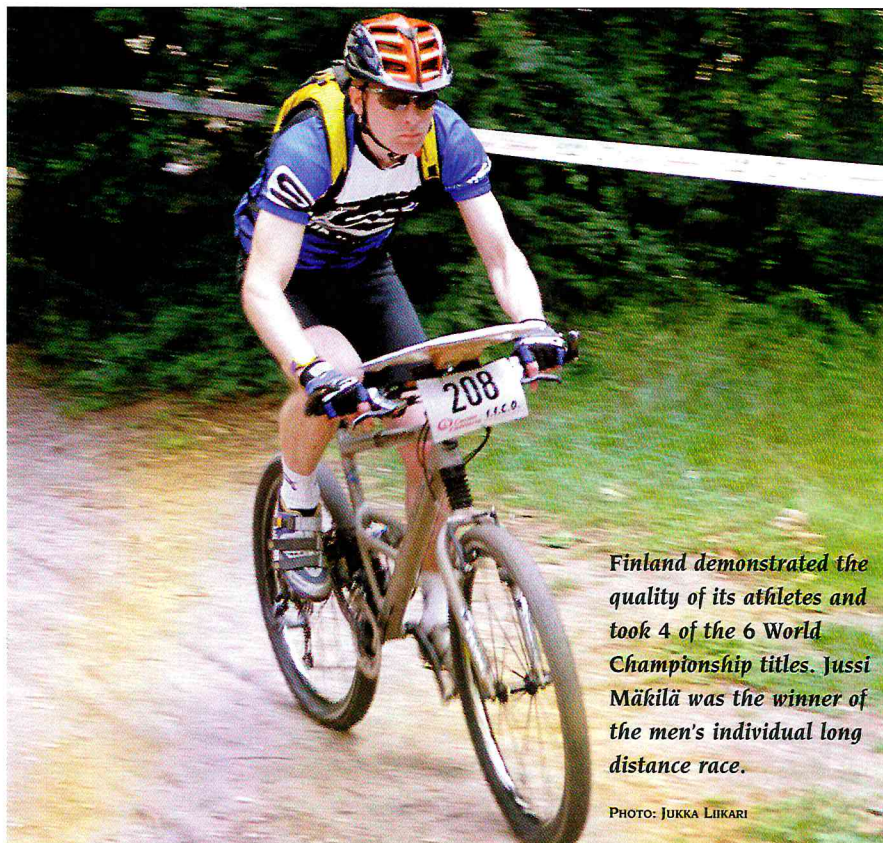
# Successful World Championships première

BY IAIN ROCHFORD

After having World Cup races since 1998, the newest orienteering discipline, Mountain Bike (MTB) Orienteering, held its first-ever World Championships in the vast forests around the historic town of Fontainebleau, situated south-east of Paris. National teams from 28 countries participated in this historical event. The organising team produced a worthy championships with good courses and good terrain and worthy champions, marred only by a problem with the terrain for the opening prologue.

This prologue race was to have decided the start order for the chasing start of the classic distance. However, it emerged at the team leaders' meeting that the terrain and map for this event had been used for the French Championships just a few weeks prior to the World Championships. A compromise was reached that the classic distance would revert to a normal individual start procedure, and all competitors would qualify for the classic if they finished within 200% of the winner's time.

It was clear beforehand that the major "professional" MTB orienteering nations, such as France, Czech and



*Finland demonstrated the quality of its athletes and took 4 of the 6 World Championship titles. Jussi Mäkilä was the winner of the men's individual long distance race.*

PHOTO: JUKKA LIUKARI

newly-emergent Finland, with their full support teams would be seen at the top of the results list, but it was also hoped that other strong individual competitors would gain a podium place. Finland duly demonstrated the quality of its athletes and took 4 of the 6 titles. The host nation, France, also lived up to its repu-

tation as a cycling country by taking the other two.

## Australian debut successful

The performance though of the Australian competitors, exemplified by Emily Viner's second and fourth places, backed up by Alex Randall's placing just outside the top ten in the men's Classic race, was a breath of fresh air for the sport. No Australians had previously competed in the previous World Cup races and did not know where they stood. They quickly found out that they could indeed compete with the best, and this bodes well for 2004, when Australia will host the next World MTB Orienteering Championships.

MTB orienteering racers have been a mix of foot orienteers successfully making the crossover to MTB orienteering, such as Alain Berger of Switzerland and Laure Coupat of France, ski orienteers and cyclists. But the sport is now seeing specialist racers emerge who concentrate seriously on their sport, and it will be interesting to see how the sport develops in the future.



*Finnish Päivi Tommola won the women's long distance race. Australian Emily Viner came second and German Antje Bornhak took bronze, only 18 seconds ahead of Hana Ryglova from Czech Republic. French Caroline Finance was fifth.*

PHOTO: LASZLO ZENTAI





# European Championships the major goal for Matti Keskinarkaus

*This winter the European Championships is the major goal for Matti Keskinarkaus.*

PHOTO: ERIK BORG

BY ERIK BORG

**M**atti Keskinarkaus has won everything that is possible to win in ski orienteering. This winter, the European Championships is the major goal of the 26-year Finn this winter.

— I have won the World Cup. Therefore this is no longer so important, and by aiming at the European Championships, I will not need to have top form for the whole winter, states Matti.

The Finnish ski orienteering ace won the long-distance race at the World Championships last year. The year before, he won both the overall World Cup and the European Championships' gold medal at the short distance. Now, most of all, he wants to have a new European gold medal in the long distance.

— I am going for all the distances, but it is the long distance race which I would really like to win if I had the choice, he says.

This spring he had an operation on one of his feet, which resulted in two months without training.

— I was not very motivated at that time, but now sport seems even more fun than before. I really enjoy training and races more than before because I have already achieved my goals that I had as a small boy, says Keskinarkaus.

He has recovered his motivation, and

the trainee pilot will undoubtedly be a man to watch out for this winter. His compatriot, Arto Lilja, who is still trying for his first major international triumph, may perhaps be a prominent challenger because of his hunger to win. The Russians are also almost sure to be found at the top of the results. Edouard Khrennikov, Andrei Gruzdev and Ruslan Gristan will certainly be at the forefront. Anders Hauge has always been exceptionally good on his home tracks in Norway. This winter might see his big breakthrough internationally.

Lena Hasselström, the ski orienteering queen of recent seasons, will not be concentrating on ski orienteering this winter. Her abdication will open the door for a tough battle between Russian Tatiana Vlasova, Stina Grenholm of Sweden and the two Finnish girls Erja Jokinen and Katja Rajaniemi for her vacant throne. Norwegian Stine Hjermstad Kirkevik will not be seen in the ski tracks either as she is expecting her first child.

## Not given up on the Olympics

There is no place for ski orienteering in the Olympic Games in Italy. Kåre Kirkevik thinks this is a pity, but he also believes there will be new chances in the future.

— We must just continue our work and see when the next opportunity arises, comments Kirkevik, who is the Chairman of the IOF Ski Orienteering Commission.

In late August the IOC Executive Committee decided that no new sports disciplines would be added to the Olympic Games in 2006.

— The decision was very disappointing to the ski orienteering world, but is of minor importance in the short term. I don't believe that the decision will have any major effect for the sport in Scandinavia and Russia. It may have a more negative significance for Southern and Mid-Europe and Eastern Europe outside Russia where the sport and the available resources are smaller, comments Kirkevik.

Ski orienteering has had to contend with very unkind weather gods for a number of years. This has resulted in difficulties in obtaining organisers, but it is a good international calendar that awaits the world's best ski orienteers this winter with 11 World Cup races in four countries and three relays. The World Cup races in Italy also incorporate the European Championships.

Even though the snow conditions have been poor, the interest for ski orienteering has been sustained at an impressive level. Participation at the last World Championship relays is good proof of this.

— 22 nations took part in the men's relay class at the World Championships. In comparison, there were only 14 nations in the men's cross country at the Winter Olympics in Salt Lake City, relates Kirkevik.



# Trail orienteers get their own World Championship

BY ANNE BRAGGINS

The criteria set by the IOF General Assembly in 2000 were met early this year and Council thus approved the first World Championship in Trail Orienteering to be held alongside the 2004 World Orienteering Championships in Sweden. This is an excellent venue for the discipline to reach such maturity as the first competitions for disabled people were held in Sweden some 20 years ago.

Originally, trail orienteering was developed to offer people with physical disabilities, not being able to move at speed through rough terrain, a possibility to enjoy a form of orienteering. At that time trail orienteering was for disabled people only. Since then, society has changed; integration is now encouraged and some able-bodied orienteers compete in trail orienteering as well as in the other athletic disciplines. The elite trail orienteers must have the same mental technical ability as the mappers and planners of competitions but their mobility remains unconnected to their results.

According to the aim of the IOF to get orienteering included in the Olympic/Paralympic Games, and respecting the wishes of the 2000 General Assembly, there will be only one championship class for all competitors regardless of sex, age or physical ability/disability. However, the title of World Champion and the medals will be awarded only to competitors who qualify for the Paralympic class by having some permanent physical disability which gives a significant disadvantage in foot orienteering competi-



Belgian Christian Meunier and Lithuanian Zenoida Pashkevich have finished their race on the first day of the 2002 European Championships in Trail Orienteering.

PHOTO: HANS-EUGEN SCHANG

tions. To encourage as many federations as possible to send competitors to the World Championships, the national team size has been restricted to three, with two selected for the team competition.

It is envisaged that an open public competition will be held on the championship course. This will be an ideal opportunity for up-and-coming athletes to gain international competition experience without the pressure of representing their country. During 2003, the EU 'Year of the Disabled', there will be training opportunities, i.e. the last World Cup competition and the European Trail Orienteering Championships associated with the World Orienteering Championships in Switzerland.

A quote from a first-time able-bodied competitor at the recently held European Trail Orienteering Championships: "Thanks for the experience, I do not think that I have ever come off a foot orienteering course as mentally exhausted as I did after these two days. I am now studying maps to see where I can set courses." The championships were organised on behalf of the IOF Trail Orienteering Commission by Peter Gehrmann and members of the ASG Teutoburger Wald, and the event was supported by the local community and Mayor of Schloss Holte-Stukenbrock. Eight nations attended, six being represented in the top ten places of the Paralympic class. There were many new faces among the competitors but, as experience counts, past competitors keep returning!

## Results

### Top 10 results for the Paralympic class:

1) John Crosby GBR, 2) Dave Gittus GBR, 3) Valeriy Tsodikov UKR, 4) Dick Keighley GBR, 5) Sigrid Mols GER, 6) Evaldas Butrimas LIT, 7) Grita

Miliauskaite LIT, 8) Tadeus Shimkovich LIT, 9) Jaques Eloy BEL, 10) Alexander Gubin RUS.

### Top 10 results in the Open class:

1) Mark Heikoop NED, 2) Anne

Straube GER, 3) John Crosby GBR, 4) Olga Korchagina RUS, 5) Hans Breckle GER, 6) Dave Gittus GBR, 7) Valeriy Tsodikov UKR, 8) Bernard Legrand BEL, 9) Dick Keighley GBR, 10) Anke Breckle, GER.



## Sue Harvey – Vice President of the European Masters Association

IOF President Sue Harvey has been elected Vice President of the newly founded European Masters Association (EMA). The association was founded by six sports, i.e. athletics, orienteering, basketball, handball, lifesaving and chess, and the objective of the EMA is to organise European Masters Games. The vision behind this objective is wider, though: to encourage masters sport for its health and social benefits.

The next EMA Council meeting is scheduled for December in Aarhus, Denmark, to coincide with the World Handball Masters Championships.

## Thirty-three members present at the IOF Congress

Delegates from thirty-three member countries participated in the activities of the XXI IOF Congress held in Fontainebleau, France in early July. The delegates also had the opportunity to attend the first ever World Championships in Mountain Bike Orienteering which were organised concurrently with the Congress. National teams from 28 countries on four continents participated in the Championships.

The 22nd IOF Ordinary Congress and General Assembly will be held in conjunction with the 2004 World Orienteering Championships in Västerås, Sweden.

## Sue Harvey re-elected President

At the XXI Ordinary General Assembly held on 5 July 2002, Sue Harvey (GBR) was re-elected President of the IOF for the Congress period 2002–2004, and Hugh Cameron (AUS), Åke Jacobson



*In late August, the IOF President Sue Harvey attended the Annual General Meeting of the Association of the IOC Recognized International Sports Federations (ARISF). The meeting was held at the IOC Headquarters in Lausanne, and the ARISF members were welcomed by IOC Sports Director Gilbert Felli.*

PHOTO: JAN C. FRANSSO

(SWE) and Edmond Szechenyi (FRA) were re-elected Vice Presidents. Leho Haldna (EST), Jan-Erik Krusberg (FIN), Iordanka Melnikliyska (BUL), Shin Murakoshi (JPN) and Marcel Schiess (SUI) were appointed Council members.

## Thailand sixty-first IOF member

The General Assembly delegates formally approved membership applications from five countries. The former associate member Chinese Taipei was now admitted to full membership, and Pakistan, Indonesia, Turkey, and Thailand were granted associate membership. All of these membership applications had been provisionally approved by the IOF Council. The IOF now has 61 members.

## World Championships awarded

Aarhus, a Danish university city with approx. 200,000 inhabitants will be hosting the 2006 World Orienteering Championships (WOC), whilst the venue of the 2007 WOC will be the Ukrainian capital Kiev with three million inhabitants. The 2006 World Championships in Mountain Bike Orienteering will be held

in Banska Bystrica, Slovakia. These decisions were taken by the 21st IOF Ordinary General Assembly held on 5 July 2002 in Fontainebleau-Ury, France.

At its September meeting, the IOF Council decided to appoint Lithuania organiser of the Junior World Championships in 2006. The event will be held some 120 km from Vilnius. At the same meeting, Council awarded the 2006 World Masters Orienteering Championships to Austria. The proposed venue is in Eastern Austria near Vienna.

## Negative doping tests at the World Championships

All the results of the anti-doping tests conducted at this year's World Ski Orienteering Championships and the World Mountain Bike Championships were negative. The tests were carried out on behalf of the International Orienteering Federation and the analysis was performed by the IOC accredited laboratories of the Olympic Athletic Centre of Athens "Spiros Louis", and the Laboratoire National de Depistage du Dopage in Chatenay-Malabry, France, respectively.





## Foot Orienteering

2003:

JUNIOR WORLD CHAMPIONSHIPS  
7 – 12 July,  
Põlva, EST

WORLD MASTERS CHAMPIONSHIPS  
13 – 17 July,  
Halden, NOR

WORLD CHAMPIONSHIPS  
3 – 9 August  
Rapperswil/Jona, SUI

2004:

JUNIOR WORLD CHAMPIONSHIPS  
4 – 11 July,  
Kaliningrad, RUS

WORLD MASTERS CHAMPIONSHIPS  
3 – 10 July,  
Asiago, ITA

WORLD CHAMPIONSHIPS  
11 – 19 September  
Västerås, SWE

WORLD CUP  
**1st Round**  
(also European Championships):  
10 – 17 July

Roskilde, DEN

**2nd Round:**

World Championships  
11 – 19 September  
Västerås, SWE

**3rd Round:**

19 – 24 October  
Dresden, GER

2005:

JUNIOR WORLD CHAMPIONSHIPS  
July  
Tenero, SUI

WORLD MASTERS  
CHAMPIONSHIPS  
Organiser to be confirmed

WORLD GAMES  
14 – 24 July  
Duisburg, GER

WORLD CHAMPIONSHIPS  
9 – 15 August  
Aichi prefecture, JPN

2006:

WORLD CHAMPIONSHIPS  
Dates to be confirmed  
Aarhus, DEN

JUNIOR WORLD CHAMPIONSHIPS  
Dates to be confirmed  
Druskininkai, LTU

WORLD MASTERS CHAMPIONSHIPS  
Dates to be confirmed  
Wiener Neustadt, AUT

2007:

WORLD CHAMPIONSHIPS  
Dates to be confirmed  
Kiev, UKR



## Ski Orienteering

2003:

WORLD CUP  
**Round 1** (also European  
Championships):  
13 – 19 January, Alpe de Suici  
(Seiser Alm), ITA

**Round 2:**

8 – 15 February, Östersund/Åsarna &  
Sundsvall, Timrå, SWE

**Round 3:**

26 February – 2 March, Voru/Haanja, EST  
3 – 9 March, Cheliabinsk, RUS

JUNIOR WORLD CHAMPIONSHIPS  
17 – 23 February,  
St. Petersburg, RUS

WORLD MASTERS CHAMPIONSHIPS  
26 February – 2 March,  
Otepää, EST

2004:

WORLD CHAMPIONSHIPS  
17 – 22 February  
Åsarna/Östersund, SWE

JWOC & WMOC  
Dates to be confirmed  
Vuokatti, FIN



## MTB Orienteering

2004:

WORLD CHAMPIONSHIPS  
18 – 23 October  
Maryborough, Victoria, AUS

2006:

WORLD CHAMPIONSHIPS  
Dates to be confirmed  
Banska Bystrica SVK



## Trail Orienteering

2003:

WORLD CUP  
5 – 7 August, in conjunction with the  
2003 WOC  
Winterthur, SUI

2004:

WORLD CHAMPIONSHIPS  
September, in conjunction with the  
2004 WOC  
Västerås, SWE

## MEETINGS

### Presidents' Conference

August 2003, in conjunction with the  
2003 WOC in Rapperswil/Jona, SUI

### IOF Congress and General Assembly

September 2004, in conjunction with  
the 2004 WOC in Västerås, SWE

### IOF Council

28 – 30 September 2002, Helsinki, FIN  
10 – 12 January 2003, Helsinki, FIN  
(Council & Commissions)  
25 – 27 April 2003, venue to be decided  
3 – 9 August 2003, in conjunction with  
the WOC in Rapperswil/Jona  
21 – 23 November 2003, venue to be  
decided



# Junior World Orienteering Championships 2002

**ALICANTE, SPAIN,  
7-14 JULY, 2002**

## Classic distance

### Men

1) Hubmann, Daniel SUI 59:35, 2) Kowalski, Wojciech POL 59:57, 3) Bortnik, Alexei RUS 60:00, 4) Andersson, Erik SWE 60:09, 5) Holmberg, Anders SWE 60:23, 6) Novikov, Leonid RUS 61:14, 7) Myllärinen, Jani FIN 61:42, 8) Dlabaja, Tomas CZE 61:51, 9) Johansson, Martin SWE 62:19, 10) Wickholm, Jörgen FIN 62:23, 11) Schuler, Benno SUI 62:31, 12) Boström, Mårten FIN 62:38, 13) Huhtanen, Juha-Matti FIN 62:40, 14) Kostylev, Egor RUS 62:44, 15) Sirmais, Martins LAT 62:50, 16) Jansson, Andreas SWE 62:51, 16) Krepsta, Simonas LTU 62:51, 18) Kaas, Carl Waaler NOR 63:29, 19) Bernaciak, Aleksander POL 63:51, 19) Müller, Matthias SUI 63:51, 21) Zinca, Ionut ROM 63:52, 22) Kharchenko, Andriy UKR 63:53, 23) Höij, Johan SWE 64:04, 24) Stroi, Michael AUT 64:13, 25) Ushkvarok, Pavlo UKR 64:24, 26) Nikolov, Kiril BUL 64:33, 27) Bartak, Lukas SVK 64:45, 28) Tervo, Tuomas FIN 64:51, 29) Ebnetter, Lukas SUI 64:55, 30) Sprok, Bence HUN 65:07.

### Women

1) Kivimäki, Tiina FIN 50:08, 2) Przyczkova, Michaela CZE 50:14, 3) Kauppi, Minna FIN 51:10, 4) Moe, Lene NOR 52:12, 5) Satri, Pinja FIN 52:33, 6) Valaite, Indre LTU 53:31, 7) Schjerve, Inga Ekeberg NOR 53:40, 8) Lampinen, Anna SWE 53:47, 9) Behounova, Veronika CZE 54:20, 10) Stalder, Seline SUI 54:24, 11) Novakova, Katerina CZE 54:39, 12) Fritschy, Martina SUI 54:43, 13) Gorchkova, Maria RUS 55:01, 14) Hokka, Laura FIN 55:07, 15) Merova, Tanya BUL 55:26, 16) Persson, Lina

SWE 55:41, 17) Altdorfer, Alexandra SUI 55:46, 18) Brocklebank, Vicky GBR 55:53, 19) Joensuu, Marttiina FIN 55:55, 20) Müller, Lea SUI 56:11, 21) Mere, Siiri EST 56:31, 22) Elson, Grace AUS 56:38, 22) Suomalainen, Sari FIN 56:38, 24) Dockalova, Martina CZE 57:16, 25) Gil Brotons, Veronica ESP 57:36, 26) Mueller, Insa GER 57:43, 27) Skrastina, Aija LAT 57:50, 28) Rufferova, Iva CZE 58:07, 29) Statham, Georgie AUS 58:11, 30) Söes, Signe DEN 58:28, 31) Prekopova, Marta SVK 58:31.

## Short distance

### Men

1) Andersson, Erik SWE 22:54, 2) Tervo, Tuomas FIN 23:09, 3) Wickholm, Jörgen FIN 23:20, 4) Huhtanen, Juha-Matti FIN 23:26, 5) Merz, Matthias SUI 23:35, 6) Holmberg, Anders SWE 23:52, 7) Skjeset, Lars NOR 24:03, 8) Minakov, Alexandre RUS 24:23, 9) Speake, Matt GBR 24:25, 10) Höij, Johan SWE 24:43, 11) Kandybey, Yevhen UKR 24:49, 12) Vaher, Sander EST 24:53, 12) Tsvetkov, Dmitry RUS 24:53, 14) Müller, Matthias SUI 24:59, 15) Krepsta, Simonas LTU 25:00, 16) Johansson, Martin SWE 25:08, 17) McCarthy, Ewan GBR 25:18, 18) Pijak, Ondrej SVK 25:22, 19) Bortnik, Alexei RUS 25:27, 20) Rollier, Baptiste SUI 25:32, 21) Flynn, Greg NZL 25:35, 22) Mörch, Mikkel DEN 25:38, 23) Taba, Riho EST 25:44, 24) Söes, Rasmus DEN 25:55, 25) Dlabaja, Tomas CZE 25:57, 26) Bader, Leif GER 26:03, 27) Sorvisto, Juha FIN 26:07, 28) Morgan, Nicholas GBR 26:28, 29) Ebnetter, Lukas SUI 26:47, 30) Drencak, Tomas SVK 26:49.

### Women

1) Kauppi, Minna FIN 22:42, 2) Valaite, Indre LTU 23:25, 3) Fritschy, Martina SUI 23:47, 4) Satri, Pinja FIN 24:12, 5) Przyczkova, Michaela CZE 24:21, 6) Korzhova, Natalia RUS 24:47, 7) Novakova, Katerina CZE 24:50, 8) Rihma, Annika EST 25:18, 9) Jansson, Helena SWE 25:36, 10) Plokhenko, Viktoriya UKR 25:48, 11) Ferchalova, Iana RUS 25:50, 12) Mere, Siiri EST 25:55, 13) Joensuu, Marttiina FIN 25:59, 14) Gorchkova, Maria RUS 26:24, 15) Rezvova, Natalia RUS 26:34, 16) Novik, Hanne NOR 26:38, 17) Lampinen, Anna

SWE 26:48, 18) Flatekval, Jorid NOR 26:50, 19) Müller, Lea SUI 26:56, 20) Zsigmond, Szava HUN 27:03, 21) Moe, Lene NOR 27:04, 22) Mueller, Insa GER 27:09, 23) Radford, Zoe AUS 27:26, 24) Brocklebank, Vicky GBR 27:37, 25) Persson, Lina SWE 27:52, 26) Hokka, Laura FIN 27:59, 27) Fasting, Mari NOR 28:20, 28) Rufferova, Iva CZE 28:24, 29) Sbaraglia, Maria Novella ITA 28:34, 30) Thompson, Clementine AUS 28:40.

## Relay

### Men

1) Switzerland 1:55:03 (Merz, Matthias; Hubmann, Daniel; Ebnetter, Lukas), 2) Finland 1:56:50 (Tervo, Tuomas; Huhtanen, Juha-Matti; Wickholm, Jörgen), 3) Sweden 1:57:45 (Holmberg, Anders; Höij, Johan; Andersson, Erik), 4) Russia 2:01:09 (Kostylev, Egor; Novikov, Leonid; Bortnik, Alexei), 5) Czech Republic 2:02:35 (Krcal, Jaroslav; Vodicka, Jan; Dlabaja, Tomas), 6) Slovakia 2:02:54 (Drencak, Tomas; Pijak, Ondrej; Bartak, Lukas), 7) Poland 2:04:23 (Bernaciak, Aleksander; Krawczyk, Maciej; Kowalski, Wojciech), 8) Norway 2:04:37 (Sagberg, Torbjorn; Skjeset, Lars; Boen, Christian), 9) Austria 2:04:40 (Lang, Markus; Stroi, Michael; Kerschbaumer, Gernot), 10) Ukraine 2:04:43 (Kharchenko, Andriy; Kandybey, Yevhen; Ushkvarok, Pavlo), 11) Great Britain B 2:08:46 (McCarthy, Ewan; Speake, Matt; Morgan, Nicholas), 12) Belgium 2:08:53 (Van Gasse, Etienne; Van Gasse, Laurent; Gilot, Jan), 13) Germany 2:09:44 (Bader, Leif; Gieseler, Christian; Teich, Christian), 14) Denmark B 2:12:51 (Skouenborg, Thomas; Korsbæk, Palle; Borch, Jeppe), 15) Estonia 2:13:26 (Liblik, Urmo; Taba, Riho; Vaher, Sander).

### Women

1) Switzerland 1:42:14 (Wolleb, Franziska; Fritschy, Martina; Müller, Lea), 2) Finland 1:42:44 (Kivimäki, Tiina; Satri, Pinja; Kauppi, Minna), 3) Sweden 1:46:09 (Jansson, Helena; Persson, Lina; Lampinen, Anna), 4) Norway 1:46:55 (Flatekval, Jorid; Novik, Hanne; Moe, Lene), 5) Estonia 1:47:15 (Mere, Siiri; Klade, Piret; Saue, Eveli), 6) Czech Republic 1:48:31 (Przyczkova,



Michaela; Behounova, Veronika; Dockalova, Martina), 7) Russia 1:48:47 (Ferchalova, Iana; Korzhova, Natalia; Gorchkova, Maria), 8) Great Britain 1:51:01 (Daniel, Laura; Kingdon, Becky; Brocklebank, Vicky), 9) Hungary 1:51:48 (Csiszar, Adrienn;

Zsigmond, Szava; Fekete, Zsuzsanna), 10) Germany 1:57:54 (Kaufmann, Elisa; Mueller, Insa; Kundisch, Sieglinde), 11) Australia 1:58:32 (Elson, Grace; Radford, Zoe; Statham, Georgie), 12) Spain 2:00:38 (Gil Brotons, Veronica, Samper Sanz, Rosa

Ana; Gil de la Vega, Paula), 13) France 2:00:40 (Goffre, Anaïs; Cavallini, Cécilia; Klein, Carole), 14) Latvia 2:01:50 (Skrastina, Aija; Ansaberga, Ieva; Arniece, Liga), 15) Austria 2:02:08 (Seeböck, Anita; Leonhardt, Karin; Breitschädel, Julia).

# World MTB Orienteering Championships 2002

FONTAINEBLEAU, FRANCE, 1-7 JULY, 2002

## Long distance

### Men

1) Mäkilä Jussi FIN 1:30:10, 2) Gillmann Jérémie FRA 1:31:32, 3) Berger Alain SUI 1:32:21, 4) Rygl Jaroslav CZE 1:32:27, 5) Clor Hervé FRA 1:32:36, 6) Korchagin Victor RUS 1:33:37, 7) Poirrette Joël FRA 1:34:18, 8) Zhurkin Maxim RUS 1:34:46, 9) Tervala Mika FIN 1:35:29, 10) Perrin Gilles FRA 1:38:02, 11) Houlihan John GBR 1:38:51, 12) Randall Alex AUS 1:39:06, 13) Olsen Tommy NOR 1:39:55, 14) Mach Radovan CZE 1:40:04, 15) Delins Kasparus LAT 1:40:13, 16) Dörfler Dietmar AUT 1:40:31, 17) Hanicak Tomas SVK 1:40:35, 18) Hallik Margus EST 1:40:37, 19) Pesu Raino FIN 1:41:37, 20) Vliegen Erik BEL 1:42:22, 21) Krotkov Alexander RUS 1:42:25, 22) Casal Roger ESP 1:42:38, 23) Mogno Michele ITA 1:42:46, 24) Okle Beat SUI 1:43:52, 25) Vodrazka Jakub CZE 1:43:53, 26) Seger Simon SUI 1:44:47, 27) Jabas Remy SUI 1:45:05, 28) Ottesson Rene EST 1:45:21, 29) Tommola Mikko FIN 1:45:32, 30) Gritsan Rouslan RUS 1:45:34.

### Women

1) Tommola Päivi FIN 1:16:52, 2) Viner Emily AUS 1:17:59, 3) Bornhak Antje GER 1:18:29, 4) Ryglova Hana CZE 1:18:47, 5) Finance Caroline FRA 1:19:30, 6) Mäkelä Hanna-Maija FIN 1:19:39, 7) Korhonen Kirsi FIN 1:20:05, 8) Gigon Michaela AUT 1:20:17, 9) Jakoubova Marketta CZE 1:20:22, 10) Väisänen Mervi FIN 1:20:46, 11) Pfuhl Gerit GER 1:21:34, 12) Thomas Sylvia GER 1:21:58, 13) Stengard Ingrid FIN 1:24:23, 14) Mikryukova Nadiya RUS

1:24:38, 15) Podrabska Anna CZE 1:25:12, 16) Jackson Carolyn AUS 1:25:42, 17) Füzy Anna HUN 1:25:52, 18) Durcova Alena SVK 1:26:51, 19) Hrdinova Marie CZE 1:26:56, 20) Eckhardt Cornelia GER 1:27:32, 21) Folprechetova Jaroslava CZE 1:27:57, 22) Hausermann Ursula SUI 1:29:12, 23) Gil Amparo ESP 1:29:24, 24) Prier Janet GBR 1:29:39, 25) Prehsler Martina AUT 1:30:00, 26) Gil Esther ESP 1:30:16, 27) Arlauskiene Ramune LTU 1:30:19, 28) Quinn Julie AUS 1:30:59, 29) Verdeil Christine FRA 1:31:06, 30) Muhlemann Regula SUI 1:31:16.

## Sprint

### Men

1) Tervala Mika FIN 27:13, 2) Berger Alain SUI 27:49:00, 3) Gillmann Jérémie FRA 27:59, 4) Mäkilä Jussi FIN 28:00, 5) Korchagin Victor RUS 28:18, 6) Zhurkin Maxim RUS 28:20, 7) Perrin Gilles FRA 28:30, 8) Prochazka Jiri CZE 28:52, 9) Houlihan John GBR 29:14, 10) Olsen Tommy NOR 29:22, 11) Strejcek Petr CZE 29:23, 12) Surgan Stefan SVK 29:34, 13) Pesu Raino FIN 29:59, 14) Delins Kasparus LAT 30:06, 15) Mach Radovan CZE 30:08, 16) Hanicak Tomas SVK 30:15, 17) Rygl Jaroslav CZE 30:16, 18) Gasperotti Ivan ITA 30:19, 18) Jabas Remy SUI 30:19, 20) Grende Ants LAT 30:34, 21) Tompuri Tuomo FIN 30:48, 22) Hallik Margus EST 30:50, 23) Gritsan Rouslan RUS 30:54, 24) Gigon Christian AUT 30:56, 25) Sxay Sébastien FRA 30:57, 26) Okle Beat SUI 30:59, 27) Ferrer Lluís ESP 31:00, 27) Sarkkinen Timo FIN 31:00, 29) Wohanka Pavel CZE 31:03, 30) Dörfler Dietmar AUT 31:05.

### Women

1) Coupat Laure FRA 30:24, 2) Väisänen Mervi FIN 30:31, 3) Bornhak Antje GER 31:18, 4) Viner Emily AUS 31:45, 5) Gigon Michaela AUT 32:40, 6) Finance Caroline FRA 33:11, 7) Tommola Päivi FIN 33:17, 8) Hrdinova Marie CZE 33:29, 9) Ryglova Hana CZE 33:51, 10) Jakoubova Marketta CZE 33:52, 11) Wicki Yvonne SUI 34:24, 12) Pfuhl Gerit GER 34:33, 13) Mikryukova Nadiya RUS 34:36, 14) Prehsler Martina AUT 34:47, 15) Jackson Carolyn AUS 34:53, 16) Chmelikova Jana CZE 34:58, 17) Bastien Amélie FRA 35:06, 18) Stengard Ingrid FIN 35:13, 19) Coupat Magali FRA 35:21, 20) Podrabska Anna CZE 35:31, 21) D'amico Monica ITA 35:49, 22) Thomas Sylvia GER 35:50, 23) Arlauskiene Ramune LTU 35:51, 24) Letho Satu FIN 36:00, 25) Füzy Anna HUN 36:03, 26) Korhonen Kirsi FIN 36:04, 27) Gil Amparo ESP 36:31, 28) Somers-Cocks Charlotte GBR 36:44, 28) Eckhardt Cornelia GER 36:44, 30) Gil Esther ESP 37:21.

## Relay

### Men

1) France (Sxay Sébastien, Poirrette Joel, Pralus Olivier) 141:56, 2) Czech Republic (Strejcek Petr, Mach Radovan, Rygl Jaroslav) 142:14, 3) Finland (Pesu Raino, Makila Jussi, Tervala Mika) 142:18, 4) Russia (Gritsan Rouslan, Zhurkin Maxim, Korchagin Victor) 144:00, 5) Slovakia (Sabo Mikulas, Surgan Stefan, Hanicak Tomas) 146:47, 6) Switzerland (Fritschy Jonas, Seger Simon, Berger Alain) 150:24, 7) Latvia



(Voicescuks Ugis, Grende Ants, Delins Kaspars) 151:00, 8) Australia (Randall Alex, Lebbink Grant, Walter Thomas) 156:49, 9) Italy (Bellini Mauro, Gasperotti Ivan, Mogno Michele) 157:00, 10) Estonia (Rae Arbo, Ottesson Rene, Hallik Margus) 158:07, 11) Spain (Ferrer Lluís, Morcillo José-Luis, Casal Roger) 159:11, 12) Austria (Gigon Christian, Wieser Thomas, Dorfler Dietmar) 161:58, 13) Great Britain (Houlihan John, Haeding Steve, Simpson Andy) 172:30, 14) Portugal (Sebastiao Eduardo, Sousa Luis, Reis Alexandre) 174:57, 15) Germany (Mannel Harald, Deinert Axel, Klinke Ronny) 175:00, 16) Hungary (Holluby Andras, Paulovits Laszlo, Vajda Zsolt) 175:16, 17) Ireland (Casey John, May Justin, Rochford Iain) 175:27, 18) Lithuania (Kalvaitis Antanas Darius, Zilinskas Tautvydas, Arlauskas Remigijus) 177:29, 19) Israel (Shurer Ronen, Ovdat Ofer, Ezrachi Altshuler Erez) 194:29, 20) Japan (Aikawa Sou, Ohkita Yohey, Watanabe Mizuki) 200:55, Belgium (Vliegen Eric, Van Cayzele Laurent, Tournay Benoit) Pm.

#### Women

1) Finland (Korhonen Kirsii, Tommola Päivi, Väisänen Mervi) 111:00, 2) France (Coupat Laure, Coupat Magali, Finance Caroline) 111:46, 3) Czech Republic (Ryglóva Hana, Jakoubova Marketa, Hrdinova Marie) 111:47, 4) Germany (Pfuhl Gerit, Thomas Sylvia, Bornhak Antje) 118:54, 5) Australia (Viner Emily, Jackson Carolyn, Quinn Julie) 123:27, 6) Switzerland (Hausermann Ursula, Wicki Yvonne, Muhlemann Regula) 131:30, 7) Italy (Rottenstainer Sabine, Innerrebnner Vera, D'amico Monica) 132:48, 8) Slovakia (Durova Alena, Janaskova Iveta, Kralova Katarina) 150:47, 9) Japan (Hosoya Misaki, Fujihara Mizuho, Kotera Yoshiko) 152:55, Austria (Prehler Martina, Senft Nicole, Gigon Michaela) pm, Spain (Gil Esther, Roches Cristina, Gil Amparo) pm, Great Britain (Somers-Cocks Charlotte, Pryer Janet, Heppenstall Claire) pm, Lithuania (Pilekyte Sigita, Urbonaite Roma, Arlauskienė Ramune) pm, Russia (Vorobieva Anna, Grand Elena, Mikryukova Nadiya) pm.

## World Cup in MTB Orienteering 2001

### FINAL STANDINGS

#### Individual

#### Women

1) Bornhak Antje GER 191, 2) Väisänen Mervi FIN 186, 3) Stengård Ingrid FIN 183, 4) Tommola Päivi FIN 171, 5) Hrdinova Marie CZE 163, 6) Gigon Michaela AUT 154, 7) Jakoubova Marketa CZE 148, 8) Podrabska Anna CZE 146, 9) Korhonen Kirsii FIN 145, 10) Thomas Sylvia GER 136, 11) Mäkelä Hanna-Maija FIN 135, 12) Lehto Satu FIN 135, 13) Ryglóva Hana CZE 129, 14) Fuzy Anna HUN 129, 15) Nowak Greta AUT 125, 16) Kupcova Kristina CZE 115, 17) Folprechtova Jaroslava CZE 94, 18) Marosffy Orsolya HUN 91, 19) Roches Cristina ESP 89, 20) Mirjuokova Nadja RUS 87, 21) Gil Veronica ESP 86, 22) Gil Ester ESP 84, 23) Pfuhl Gerit GER 82, 24) Coupat Laure FRA 77, 25) Dannowski Anke GER 73, 26) Medvedeva Irina RUS 73, 27) Wieser Kerstin AUT 69, 28) Wicki Yvonne SUI 68, 29) Kirkevik Stine H. NOR 62, 30) Ulreich Ingrid AUT 58.

#### Men

1) Tervala Mika FIN 188, 2) Mäkilä Jussi FIN 185, 3) Rygl Jaroslav CZE 171, 4) Kortchagin Viktor RUS 171, 5) Jourkine Maxim RUS 159, 6) Lilja Arto FIN 147, 7) Prochazka Jiri CZE 140, 8) Berger Alian SUI 137, 9) Clor Herve FRA 134, 10) Doerfler Dietmar AUT 133, 11) Forsman Petri FIN 131, 12) Wohanka Pavel CZE 126, 13) Strejcek Petr CZE 118, 14) Wieser Thomas AUT 110, 15) Sarkkinen Timo FIN 95, 16) Surgan Stefan SVK 91, 17) Pesu Raino FIN 90, 18) Seger Simon SUI 89, 19) Gillmann Jeremy FRA 85, 20) Hallik Margus EST 84, 21) Rae Arbo EST 84, 22) Tommola Mikko FIN 83, 23) Houlihan John GBR 81, 24) Gasperotti Ivan ITA 79, 25) Sabo Mikulas SVK 74, 26) Kubin Jiri CZE 71,

27) Mach Radovan CZE 70, 28) Mougin Sylvain FRA 66, 29) Fritschy Jonas SUI 65, 30) Syrjälä Jussi FIN 65.

#### Relay

#### Men

1) Finland 40, 2) Czech Republic 32, 3) Austria 30, 4) Spain 25, 5) France 24, 6) Slovakia 23, 7) Switzerland 21, 8) Hungary 19, 9) Belgium 18, 10) Russia 15, 11) Italy 15, 12) Germany 10, 13) Great Britain 5.

#### Women

1) Finland 40, 2) Czech Republic 34, 3) Austria 26, 4) Spain 23, 5) France 20, 6) Russia 17, 7) Hungary 13, 7) Germany 13, 9) Norway 11, 10) Italy 10.

#### Country competition

1) Finland 2302, 2) Czech Republic 1838, 3) Austria 1224, 4) Spain 928, 5) France 897, 6) Germany 846, 7) Russia 827, 8) Hungary 611, 9) Switzerland 554, 10) Italy 446, 11) Slovakia 403, 12) Belgium 227, 13) Norway 204, 14) Estonia 170, 15) Great Britain 160, 16) Latvia 49, 17) Denmark 38, 18) Ireland 19, 19) Australia 5.

## World Ski Orienteering Championships 2002

**BOROVETZ, BULGARIA,  
23 FEBRUARY – 3 MARCH,  
2002**

#### Long distance

#### Men

1) Matti Keskinarkaus FIN 1:42:29, 2) Edouard Khrennikov RUS 1:43:05, 3) Raino Pesu FIN 1:45:10, 3) Bertil Nordqvist SWE 1:45:10, 5) Jukka Lanki FIN 1:48:35, 6) Ondrej Vodrazka CZE 1:49:51, 7) Vladislav Kormichtchik RUS 1:50:24, 8) Tomas Löfgren SWE 1:50:45, 9) Andrei Gruzdev RUS 1:50:47, 10) Claes Turesson SWE 1:51:13, 11) Nikolai Bondar RUS 1:51:38, 12) Andreas Edvardsen NOR



1:51:55, 13) Jarkko Urpalainen FIN  
1:51:59, 14) Viktor Korchagin RUS  
1:52:11, 15) Stefan Lauenstein SUI  
1:52:54, 16) Jakub Vodrazka CZE  
1:53:19, 17) Peter Arnesson SWE  
1:53:30, 18) Todor Kalniev BUL 1:53:34,  
19) Boris Fisher SUI 1:53:49, 20)  
Tommy Olsen NOR 1:54:02, 21)  
Christian Hohl SUI 1:54:42, 22) Markus  
Buchtele AUT 1:55:40, 23) Margus  
Halik EST 1:56:20, 24) Nerijus Sulcys  
LTU 1:56:46, 25) Jan Lauerman CZE  
1:56:54, 26) Walter Seber ITA 1:58:37,  
27) Aners Hauge NOR 1:58:51, 28)  
Johann Kugler AUT 1:59:30, 29) Plamen  
Mestanski BUL 2:01:12, 30) Mihail  
Mihailov BUL 2:03:30.

### Women

1) Lena Hasselström SWE 1:20:34, 2)  
Erja Jokinen FIN 1:23:16, 3) Mervi  
Väisänen FIN 1:23:56, 4) Stine  
Hjermstad Kirkevik NOR 1:26:37, 5)  
Tatiana Vlassova RUS 1:27:45, 6) Marte  
Reenaas NOR 1:28:04, 7) Natalia  
Tomilova RUS 1:29:32, 8) Ramune  
Arlauskiene LTU 1:31:35, 9) Marie  
Lund SWE 1:32:17, 10) Liisa Anttila  
FIN 1:32:53, 11) Irina Onichtchenko  
RUS 1:33:16, 12) Elena Karchevskaia  
RUS 1:33:26, 13) Ann-Charlotte  
Carlsson SWE 1:34:02, 14) Stina  
Grenholm SWE 1:34:18, 15) Regula  
Muhleman SUI 1:35:10, 16) Barbora  
Chudikova CZE 1:35:14, 17) Eva  
Bohmanova CZE 1:36:04, 18) Hanna  
Kosonen FIN 1:37:45, 19) Yvonne  
Gantenbein SUI 1:40:53, 20) Lenka  
Hasmanova CZE 1:41:53, 21) Kjersti  
Reenaas NOR 1:42:22, 22) Kristin  
Hasle NOR 1:44:04, 23) Teodora  
Maltcheva BUL 1:47:03, 24) Manuela  
Wyder SUI 1:48:22, 25) Vilma  
Rudzenskaite LTU 1:50:43, 26) Antje  
Bornhak GER 2:02:36, 27) Diana  
Vosyliute LTU 2:06:45, 28) Christiane  
Trobe GER 2:14:48, 29) Yoshiko Sakai  
JPN 2:21:10, 30) Sharon Crawford USA  
2:25:26.

### Medium distance

#### Men

1) Edouard Khrennikov RUS 46:25, 2)  
Andrei Gruzdev RUS 46:53, 3) Kjetil  
Ulven NOR 48:05, 4) Arto Lilja FIN  
48:23, 5) Eivind Tonna NOR 48:43, 6)  
Anders Hauge NOR 48:52, 7) Jakub

Vodrazka CZE 49:09, 8) Bertil  
Nordqvist SWE 49:37, 9) Matti  
Keskinarkaus FIN 49:40, 10) Peter  
Dahlberg SWE 50:41, 11) Peter  
Arnesson SWE 51:21, 12) Roberto Ceol  
ITA 51:34, 13) Todor Kalniev BUL  
51:50, 14) Ondrej Vodrazka CZE 51:56,  
15) Peter Mosimann SUI 52:15, 16)  
Ander Ojandu EST 52:39, 17) Viktor  
Korchagin RUS 52:49, 18) Tommy  
Olsen NOR 53:18, 19) Marc Lauenstein  
SUI 53:24, 20) Teemu Kõngäs FIN  
53:25, 21) Egor Sorokin RUS 53:28, 22)  
Jukka Lanki FIN 54:03, 23) Margus  
Hallik EST 54:15, 24) Nerijus Sulcys  
LTU 54:42, 25) Lubomir Tomecek CZE  
56:40, 26) Fanck Dechavanne FRA  
56:50, 27) Plamen Mestanski BUL  
57:09, 28) Jan Lauerman CZE 57:26,  
29) Mihail Mihailov BUL 57:31, 30)  
Romas Kazimieraitis LTU 57:50.

### Women

1) Stina Grenholm SWE 45:28, 2) Erja  
Jokinen FIN 45:38, 3) Lena  
Hasselström SWE 45:40, 4) Katja  
Rajaniemi FIN 45:49, 5) Natalia  
Naumova RUS 46:11, 6) Ida Wirkström  
SWE 47:25, 7) Tatiana Vlassova RUS  
47:26, 8) Stine Hjermstad Kirkevik  
NOR 47:48, 9) Hanna Kosonen FIN  
48:51, 10) Natalia Tomilova RUS 49:34,  
11) Marte Reenaas NOR 49:37, 12)  
Kristin Hasle NOR 50:22, 13) Ramune  
Arlauskiene LTU 51:23, 14) Natalia Frei  
RUS 52:37, 15) Marie Lund SWE 53:03,  
16) Yvonne Gantenbein SUI 53:22, 17)  
Liisa Anttila FIN 53:28, 18) Eva  
Bohmova CZE 53:59, 19) Kjersti  
Reenaas NOR 55:01, 20) Stefania  
Belomajeva BUL 55:58, 21) Regula  
Muhleman SUI 56:11, 22) Barbora  
Chudikova CZE 56:59, 23) Lenka  
Hasmanova CZE 57:32, 24) Vilma  
Rudzenskaite LTU 58:07, 25) Antje  
Bornhak GER 1:03:44, 26) Yvonne  
Wicki SUI 1:03:58, 27) Teodora  
Maltcheva BUL 1:07:15, 28) Diana  
Vosyliute LTU 1:08:07, 29) Christiane  
Trobe GER 1:08:19, 30) Yuka Ueno JPN  
1:09:56.

### Sprint

#### Men

1) Andrei Gruzdev RUS 18:44, 2) Viktor  
Korchagin RUS 18:51, 3) Raino Pesu  
FIN 18:59, 4) Matti Keskinarkaus FIN

19:04, 5) Edouard Khrennikov RUS  
19:10, 6) Bertil Nordqvist SWE 19:15, 7)  
Kjetil Ulven NOR 19:38, 8) Andreas  
Edvardsen NOR 19:39, 9) Jukka Lanki  
FIN 19:44, 9) Anders Hauge NOR 19:44,  
11) Bengt Leandersson SWE 19:57, 12)  
Todor Kalniev BUL 20:02, 13) Claes  
Turesson SWE 20:03, 14) Peter  
Dahlberg SWE 20:04, 15) Boris Fisher  
SUI 20:13, 16) Arto Lilja FIN 20:27, 17)  
Jakub Vodrazka CZE 20:50, 18) Eivind  
Tonna NOR 20:58, 19) Ruslan Gristan  
RUS 20:59, 20) Ander Ojandu EST  
21:01, 21) Walter Seber ITA 21:05, 22)  
Johann Kugler AUT 21:22, 23) Peter  
Mosimann SUI 21:23, 24) Plamen  
Mestanski BUL 21:40, 25) Igor  
Zvontsov BLR 21:45, 26) Arsen  
Zhuravel UKR 21:55, 27) Fanck  
Dechavanne FRA 21:59, 28) Margus  
Hallik EST 22:02, 29) Ondrej Vodrazka  
CZE 22:03, 30) Christian Hohl SUI  
22:12.

### Women

1) Lena Hasselström SWE 16:49, 2)  
Erja Jokinen FIN 16:51, 3) Tatiana  
Vlassova RUS 16:59, 4) Katja Rajaniemi  
FIN 17:09, 5) Stina Grenholm SWE  
17:24, 5) Natalia Tomilova RUS 17:24,  
7) Irina Onichtchenko RUS 17:26, 8)  
Stine Hjermstad Kirkevik NOR 17:35, 9)  
Ramune Arlauskiene LTU 18:02, 10)  
Salla Lehto FIN 18:04, 11) Mervi  
Väisänen FIN 18:17, 12) Marte  
Reenaas NOR 18:21, 13) Ann-Charlotte  
Carlsson SWE 19:04, 14) Barbora  
Chudikova CZE 19:13, 15) Natalia  
Naumova RUS 19:18, 16) Kristin Hasle  
NOR 19:34, 17) Yvonne Gantenbein SUI  
20:02, 18) Eva Bohmova CZE 20:36, 18)  
Stefania Belomajeva BUL 20:36, 20)  
Teodora Maltcheva BUL 21:07, 21)  
Regula Muhleman SUI 21:22, 22) Vilma  
Rudzenskaite LTU 21:27, 23) Kjersti  
Reenaas NOR 21:41, 24) Yvonne Wicki  
SUI 21:48, 25) Diana Vosyliute LTU  
22:27, 26) Olga Khokhlova RUS 22:32,  
27) Antje Bornhak GER 22:35, 28)  
Lenka Hasmanova CZE 22:36, 29)  
Manuela Wyder SUI 23:34, 30) Yuka  
Ueno JPN 23:59.

### Relay

#### Men

1) Russia 1:56:37 (Andrei Gruzdev,  
Ruslan Gristan, Viktor Korchagin,



Edouard Khrennikov), 2) Finland 2:00:44 (Jukka Lanki, Matti Keskinarkaus, Arto Lilja, Raino Pesu), 3) Sweden 2:00:45 (Peter Dahlberg, Claes Turesson, Peter Arnesson, Bertil Nordqvist), 4) Czech Republic 2:06:25 (Ondrej Vodrazka, Lubomir Tomecek, Jan Lauerma, Jakub Vodrazka), 5) Norway 2:07:14 (Andreas Edvardsen, Anders Hauge, Tommy Olsen, Kjetil Ulven), 6) Switzerland 2:09:30 (Christian Hohl, Peter Mosimann, Marc Lauenstein, Stefan Lauenstein), 7) Bulgaria 2:14:28 (Plamen Mestanski, Nikolai Dimitrov, Mihail Mihailov, Todor Kalniev), 8) Lithuania 2:25:12 (Dalius Boguska, Romas Kazimieraitis, Laimis Drazdauskas, Nerijus Sulcys), 9) Ukraine 2:25:28 (Andriy Borys, Arsen Zhuravel, Oleksiy Kalinichenko, Andriy Kubin), 10) Austria 2:29:14 (Markus Buchtele, Dieter Mikula, Felix Meizer, Johann Kugler), 11) Germany 2:32:19 (Falk Hahnel, Bernd Kohlschmidt, Eike Bruns, Bengt Hansske), 12) France 2:35:34 (Fanck Dechavanne, Rudy Gouy, Christophe Cullell, Pierre Bernard), 13) Japan 3:19:29 (Tetsushi Maruyama, Satoru Motoki, Tatsunori Munakata, Morihiro Horie), Italy mp, Belarus disq, Estonia disq, Hungary disq, Ireland disq, Latvia disq, Romania disq, Poland disq, USA disq.

#### Women

1) Russia 1:21:12 (Irina Onichtchenko, Natalia Tomilova, Tatiana Vlassova), 2) Sweden 1:21:29 (Stina Grenholm, Ida Wirkström, Lena Hasselström), 3) Finland 1:23:41 (Salla Lehto, Katja Rajaniemi, Erja Jokinen), 4) Norway 1:24:34 (Marte Reenaas, Kristin Hasle, Stine Hjermstad Kirkevåg), 5) Switzerland 1:37:19 (Regula Muhleman, Yvonne Wicki, Yvonne Gantenbein), 6) Lithuania 1:37:37 (Vilma Rudzenskaite, Diana Vosylike, Ramune Arlauskienė), 7) Bulgaria 1:40:49 (Stefania Belomajeva, Milena Mitkova, Teodora Maltcheva), 8) Czech Republic 1:41:06 (Eva Bohmanova, Barbora Chudikova, Lenka Hasmanova), 9) USA 2:48:06 (Sharon Crawford, Julia Bohnen, Candice Raines), 10) Japan 3:07:30 (Yuka Ueno, Tomoko Motoki, Keiko Shiratori), Germany mp, Ireland mp, Poland disq, Romania disq.

## Junior World Championships in Ski Orienteering 2002

JABLONEC NAD NISOU –  
HARRACHOV,  
CZECH REPUBLIC,  
27 JAN – 3 FEB, 2002

#### Long distance

##### Women

1) Tchijikova Ekaterina RUS 70:03, 2) Mehtälä Katri FIN 70:04, 3) Böhmová Eva CZE 70:49, 4) Ferchalova Iana RUS 71:47, 5) Joensuu Marttiina FIN 72:33, 6) Lye Tone NOR 73:16, 7) Gorchkova Maria RUS 73:25, 8) Saastamoinen Outi-Maria FIN 73:37, 9) Grand Elena RUS 75:06, 10) Mäeots Tuuli EST 76:40, 11) Hru\_ková Lenka CZE 77:09, 12) Dahlberg Kajsa SWE 77:24, 13) Karjalainen Kaisa FIN 80:23, 14) Zlesáková Daniela CZE 80:51, 15) Horynová Martina CZE 80:55, 16) Malcheva Teodora BUL 81:07, 17) Jířissová Zuzana CZE 81:37, 18) Salmi Laura FIN 82:36, 19) Overoyen Anne NOR 83:33, 20) Hamas Klara SWE 83:51, 21) Eklöf Emelie SWE 84:07, 22) Janson Una Glende NOR 84:23, 23) Limberg Kadri EST 84:40, 24) Karvonen Eeva FIN 87:37, 25) Kozlova Tatiana RUS 88:08.

##### Men

1) Vesselov Kirill RUS 84:19, 2) Smirnov Anton RUS 85:00, 3) Tunis Staffan FIN 85:54, 4) Turkka Tuukka FIN 88:30, 5) Fabritchev Alexandre RUS 91:37, 6) Batoura Nikolai RUS 91:57, 7) Jokinen Pasi FIN 92:24, 8) Bouchal Jiří CZE 92:58, 9) Bortnic Alexei RUS 93:50, 10) Redlich Tomás CZE 94:13, 11) Tolstopiatov Vadim RUS 94:51, 12) Sagberg Torbjørn NOR 95:06, 13) Lehto Jonne FIN 95:08, 14) Johansson Jörgen SWE 95:23, 15) Tolkinen Jan FIN 96:00, 16) Morgan Nicholas GBR 96:03, 17) Erlebach Michal CZE 96:33, 18) Mestanski Plamen BUL 96:58, 19) Patras Andrej SVK 97:38, 20) Rost Erik SWE 98:40, 21) Stejskal Matij CZE 99:24, 22) Peer Andrea ITA 100:41, 23) Erm Tõnis EST 100:46,

24) Rauch Stanislav CZE 101:54, 25) Hammarberg Martin SWE 102:37.

#### Short distance

##### Women

1) Tchijikova Ekaterina RUS 26:33, 2) Gorchkova Maria RUS 27:57, 3) Grand Elena RUS 28:10, 4) Karjalainen Kaisa FIN 28:15, 5) Saastamoinen Outi-Maria FIN 28:17, 6) Salmi Laura FIN 28:53, 7) Ferchalova Iana RUS 28:54, 8) Joensuu Marttiina FIN 28:57, 9) Böhmová Eva CZE 29:16, 10) Bronnikova Yulia RUS 29:34, 11) Woxlin Elin SWE 29:35, 12) Eklöf Emelie SWE 29:38, 13) Syvertsen Kari Rommen NOR 29:44, 14) Hamas Klara SWE 29:46, 15) Lye Tone NOR 30:02, 16) Mere Siiri EST 30:06, 17) Karvonen Eeva FIN 30:22, 18) Hru\_ková Lenka CZE 30:37, 19) Janson Una Glende NOR 30:46, 20) Arnesson Ida SWE 30:50, 21) Mäeots Tuuli EST 31:03, 22) Kozlova Tatiana RUS 31:24, 23) Zlesáková Daniela CZE 31:25, 24) Overoyen Anne NOR 31:31, 25) Esberg Sofia SWE 31:36.

##### Men

1) Turkka Tuukka FIN 24:38, 2) Tunis Staffan FIN 24:59, 3) Tolstopiatov Vadim RUS 25:32, 4) Johansson Martin SWE 25:34, 5) Fabritchev Alexandre RUS 25:37, 6) Lehto Jonne FIN 25:43, 7) Batoura Nikolai RUS 25:44, 8) Jokinen Pasi FIN 26:06, 9) Mestanski Plamen BUL 26:16, 10) Rost Erik SWE 26:21, 11) Sagberg Torbjørn NOR 26:23, 12) Bortnic Alexei RUS 26:23, 13) Svingheim Magnus NOR 26:39, 14) Redlich Tomás CZE 26:49, 15) Watterdal Erik NOR 27:11, 16) Bouchal Jiří CZE 27:13, 17) Hammarberg Martin SWE 27:16, 18) Rauch Stanislav CZE 27:35, 19) Smirnov Anton RUS 27:37, 20) Morgan Nicholas GBR 27:38, 21) Patras Andrej SVK 27:42, 22) Laciga Radek CZE 27:55, 23) Syvertsen Anders Rommen NOR 27:58, 24) Johansson Jörgen SWE 28:05, 25) Erlebach Michal CZE 28:20.

#### Relay

##### Women

1) Russia A (Gorchkova Maria, Grand Elena, Tchijikova Ekaterina) 75:22, 2) Finland (Joensuu Marttiina, Saastamoinen Outi-Maria, Mehtälä Katri) 75:30, 3) Czech Republic A



(Hrusková Lenka, Zlesáková Daniela, Böhmová Eva) 78:06, 4) Norway (Syvertsen Kari Rommen, Lye Tone, Overoyen Anne) 82:38, 5) Estonia (Mäeots Tuuli, Limberg Kadri, Mere Siiri) 83:49, 6) Sweden (Arnesson Ida, Hamas Klara, Esberg Sofia) 86:31.

### Men

1) Finland A (Turkka Tuukka, Lehto Jonne, Tunis Staffan) 80:03, 2) Russia A (Vesselov Kirill, Tolstopiatov Vadim, Smirnov Anton) 81:05, 3) Czech Republic A (Redlich Tomáš, Rauch Stanislav, Bouchal Jiří) 84:10, 4) Sweden A (Rost Erik, Johansson Jörgen, Johansson Martin) 85:03, 5) Norway (Watterdal Erik, Svingheim Magnus, Sagberg Torbjørn) 85:15, 6) Bulgaria (Mestanski Plamen, Todorov Hristo, Malchev Naidem) 91:46, 7) Italy (Peer Andrea, Pradel Nicola, Antoniol Matteo) 95:05, 8) Estonia (Erm Tõnis, Vaher Sander, Jyrimäe Tõnis) 98:55, 9) Slovakia (Parák Peter, Krajčák Michal, Patras Andrej) 100:02, 10) Switzerland (Wüthrich Christian, Ott Simon, Rüegg Florian) 105:31, 11) Ukraine (Kubin Andriy, Ufimtsev Oleksiy, Borys Roman) 105:57, 12) Latvia (Fomenkovs Jevgenijs, Putnins Reinis, Karlis Linde) 110:47, 13) Belarus (Hrekav Artsiom, Labanouski Alexandr, Evsikov Andre) 119:14.

## World Masters Championships in Ski Orienteering 2002

JABLONEC NAD NISOU –  
HARRACHOV,  
CZECH REPUBLIC,  
27 JAN – 3 FEB, 2002

### Women

#### W35

1) Pilcová Petra CZE 136:09, 2) Gustafsson Johanna FIN 140:29, 3) Neumannová Renata CZE 147:27, 4) Csucs Monika ROM 188:03, Kröber Andrea GER disq., Szczurek Katarzyna POL disq.

#### W40

1) Paráková Maria SVK 106:45, 2) Juutilainen Virpi FIN 108:23, 3) Pavelková Jindra CZE 111:55, 4) Kavanová Jana CZE 145:24.

#### W45

1) Gousseva Natalia RUS 89:22, 2) Rosecká Alena CZE 91:52, 3) Tröbe Renate GER 95:43, 4) Skodová Zuzana CZE 102:12, 5) Kalibánová Jitka CZE 129:07.

#### W50

1) Nurminen Arja FIN 81:33, 2) Suomalainen Marja FIN 85:52, 3) Tarkiainen Sirpa FIN 86:09, 4) Halme Ritva FIN 88:51, 5) Barsoukova Tatiana RUS 89:5, 6) Bortnovskaia Tamara RUS 96:06, 7) Oswald Brigit SUI 110:36, 8) Roussanova Elena RUS 123:54, Kanerva Marja FIN disq.

#### W55

1) Crawford Sharon USA 85:07, 2) Vlachová Renata CZE 103:11, 3) Tupitsa Mirjami FIN 103:13, 4) Iosub Gabriela ROM 181:15, Ohramaa Tuula FIN disq.

#### W60

1) Haðkovská Jana CZE 94:17, 2) Huber Madeleine SUI 100:14, Vseteèková Hana CZE disq.

#### W70

1) Koivunen Saara FIN 105:19.

#### W75

1) Nieminen Sole FIN 97:28.

### Men (10 best results)

#### M35

1) Bernard Pierre FRA 141:22, 2) Chorniy Pavel BLR 156:48, 3) Navrátil Rostislav CZE 157:51, 4) Rööm Raivo EST 160:09, 5) Schlatter Stefan SUI 162:13, 6) Koláø Rudolf CZE 172:33, 7) Pärnik Jyri EST 178:59, 8) Knittel Bruno SUI 182:47, 9) Petr Josef CZE 186:04, 10) Reichl Michal CZE 196:2.

#### M40

1) Zwantcov Igor BLR 116:37, 2) Saastamoinen Kari FIN 119:23, 3) Tchernykh Serguei RUS 120:16, 4) Monschein Robert FRA 120:3, 5) Kochetkov Igor RUS 132:21, 6) Junod Alain SUI 137:22, 7) Csucs Andras ROM 142:56, 8) Mareèek Josef CZE 146:1, 9) Häny Hansruedi SUI 152, 10) Nimec Juraj SVK 162:32.

#### M45

1) Juutilainen Anssi FIN 99:16, 2) Männel Harald GER 103:56, 3) Kosmatchevs Andris LAT 111:01, 4) Korpil Martin CZE 118:58, 5) Sonnenberg Sergej GER 120:14, 6) Stejskal Petr CZE 121:16, 7) Koláø Karel CZE 121:57, 8) Hruka Jiří CZE 129:24, 9) Scheibenreif Johann AUT 139:47, 10) Fremder Dietmar GER 139:58.

#### M50

1) Pøinda Oldøich CZE 103:18, 2) Tolkkinen Veikko FIN 110:41, 3) Tröbe Lutz GER 111:11, 4) Oswald Hanspeter SUI 111:53, 5) Gorelov Viatcheslav RUS 117:54, 6) Johansson Anders SWE 121:32, 7) Erlebach Josef CZE 123:39, 8) Kadyrov Danis RUS 126:58, 9) Novák Karel CZE 129:32, 10) Labanouski Anatoli BLR 130:51.

#### M55

1) Orpana Risto FIN 83:49, 2) Mikkola Kyösti FIN 92:06, 3) Maier Curt AUT 92:44, 4) Pospíšil Jaromír CZE 94:16, 5) Harvala Asko FIN 98:03, 6) Sjökvist Lars-Ake SWE 99:25, 7) Vlach Oldøich CZE 109:51, 8) Johansson Bo SWE 112:05, 9) Procházka Zdenko CZE 113:23, 10) Pospíšil Jiří CZE 115:14.

#### M60

1) Salmi Tarmo FIN 87:07, 2) Kanerva Unto FIN 87:09, 3) Conrad Helmut GER 92:19, 4) Kettunen Seppo FIN 93:33, 5) Tupitsa Ilmari FIN 103:13, 6) Roussanov Pavel RUS 104:43, 7) Urbanec Antonín CZE 107:11, 8) Maceèek Karel CZE 109:16, 9) Nordström Erik SWE 121:36, 10) Takahara Susumu JPN 123:15.

#### M65

1) Horn Gerhard GER 93:12, 2) Heinemann Rolf GER 102:43, 3) Havlík Jaroslav CZE 109:3, 4) Takeishi Yuichi JPN 109:45, 5) Boudny Zdeněk CZE 116:21.

#### M70

1) Pystynen Paavo FIN 68:42.

#### M75

1) Majoinen Arvo FIN 83:27, 2) Vishnyakov Nikolay RUS 171:59.

#### M80

1) Hyvönen Olavi FIN 136:42, 2) Mäenpää Olavi FIN 190:41.



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