

### INTERNATIONAL ORIENTEERING FEDERATION

# COMPETITION RULES FOR INTERNATIONAL ORIENTEERING FEDERATION (IOF) SKI ORIENTEERING EVENTS

(Rules for the World Ski Orienteering Championships)
(Rules for the World Cup in Ski Orienteering)
(Rules for the Junior World Ski Orienteering Championships)
(Rules for the World Masters Ski Orienteering Championships)
(Rules for IOF World Ranking Events)

This version of the competition rules is valid from 1 September 2010. Subsequent amendments will be published on the official IOF web site at <a href="http://www.orienteering.org/">http://www.orienteering.org/</a>

A vertical line in the left margin indicates a major change to the previous version (1 December 2009)

# COMPETITION RULES FOR

# ${\bf INTERNATIONAL\ ORIENTEERING\ FEDERATION\ (IOF)}$

#### SKI ORIENTEERING EVENTS

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#### 1. Definitions

- 1.1 Ski Orienteering is a sport in which the competitors visit a number of points marked on the ground (controls) in the shortest possible time aided by map and compass. Skiing and navigational skills shall be tested in such a way that navigational skill is the decisive element. In ski orienteering the course shall be completed predominantly on skis. Parts may be completed on foot, in which case the competitor must carry appropriately-sized skis, sticks and shoes. The term competitor means an individual of either gender or a team, as appropriate.
- 1.2 Types of orienteering competition may be distinguished by:
  - the time of the competition:
    - day (in daylight)
    - *night* (in the dark)
  - the nature of the competition:
    - *individual* (the individual performs independently)
    - relay (two or more team members complete consecutive individual races)
    - *sprint relay* (two team members each complete three individual races alternately with each other)
    - *team* (two or more individuals collaborate)
  - the way of determining the competition result:
    - single-race competition (the result of one single race is the final result. The competitors may compete in different races: the A-race, the B-race and so on, with the placed competitors of the B-race placed after the placed competitors of the A-race and so on)
    - *multi-race competition* (the combined results of two or more races, held during one day or several days, form the final result)
    - qualification race competition (the competitors qualify for a final race through one or more qualification races in which they may be allocated to different heats. The competition's result is that of the final only. There may be A- and B-finals and so on, with the placed competitors of the B-final placed after the placed competitors of the A-final and so on)
  - the order in which controls are to be visited:
    - in a specific order (the sequence is prescribed)
    - in no specific order (the competitor is free to choose the order)
  - the length of the race:
    - Extra long distance
    - Long distance
    - Middle distance
    - Sprint
    - other distances
- 1.3 The term *Federation* means a full member Federation of the IOF.
- 1.4 The term *event* embraces all aspects of a ski orienteering meeting including organisational matters such as start draws, team officials' meetings and ceremonies. An event, e.g. the World Ski Orienteering Championships, may include more than one competition.
- WOC 1.5 The World Ski Orienteering Championships (WOC) is the official event to award the titles of World Champions in Ski Orienteering. It is organised under the authority of the IOF and the appointed Federation.
- WCup 1.6 The World Cup in Ski Orienteering (WCup) is the official series of events to find the world's best ski orienteers over a season. Each event involves only one competition. The different events are organised under the authority of the IOF and the Federations of the organisers.

- JWOC 1.7 *The Junior World Ski Orienteering Championships (JWOC)* is the official event to award the titles of Junior World Champions in Ski Orienteering. It is organised under the authority of the IOF and the appointed Federation.
- WMOC 1.8 *The World Masters Ski Orienteering Championships (WMOC)* is the official event to find the world's best veteran ski orienteers. It is organised under the authority of the IOF and the Federation of the organiser.
- WRE 1.9 *IOF World Ranking Events (WRE)* are international events which are accepted by the IOF Council into the official IOF Calendar. They are organised under the authority of the IOF and the Federation of the organiser.
  - 1.10 The IOF World Ranking Scheme is a system to rank the World's Elite Ski Orienteers based on their performances in the World Orienteering Championships, World Cups and World Ranking Events.

#### 2. General provisions

- These rules, together with the Appendices, shall be binding at the World Ski Orienteering Championships, the World Cup in Ski Orienteering, the Junior World Ski Orienteering Championships, the World Masters Ski Orienteering Championships and for W21 and M21 elite classes at IOF World Ranking Events. Every rules point with no event abbreviation before its number is valid for all these events. A rules point valid only for one or more of these events is marked with the specific abbreviation(s) in the margin beside the rules point number. Such specific rules take precedence over any general rules with which they conflict.
- Where an event is of two types (e.g. if the World Championships also forms a part of the World Cup) the rules for the higher-level event (as defined by the order in 1.5-1.9) shall take precedence.
- 2.3 These rules are recommended as a basis for national rules.
- 2.4 If not otherwise mentioned these rules are valid for individual day orienteering competitions on skis.
- 2.5 Additional regulations which do not conflict with these rules may be determined by the organiser. They need the approval of the IOF Event Adviser.
- 2.6 These rules and any additional regulations shall be binding for all competitors, team officials and other persons connected with the organisation or in contact with the competitors.
- 2.7 Sporting fairness shall be the guiding principle in the interpretation of these rules by competitors, organisers and the jury.
- 2.8 The English text of these rules shall be taken as decisive in any dispute arising from a translation into any other language.
- 2.9 In relays the rules for individual competitions are valid, unless otherwise stated.
- 2.10 The IOF Council may decide special rules or norms which shall be followed, e.g. *IOF Anti-Doping Rules, International Specification for Orienteering Maps, Principles for Course Planning, Leibnitz Convention.*
- 2.11 The IOF Council may allow deviations from these rules and norms. Requests for permission to deviate from them shall be sent to the IOF Secretariat at least 6 months prior to the event.
- 2.12 In exceptional circumstances, due to special snow or weather conditions, in order to maximise fairness the Organiser with the IOF Event Adviser may allow rule deviations. Such deviations should, if possible, be agreed at a team leaders' meeting.

- WCup 2.13 The *Ski Orienteering World Cup Guidelines* (updated by the end of June prior to each World Cup season) shall be followed. Deviations require the consent of the IOF Event Adviser.
- JWOC 2.14 The championships shall be organised in accordance with the following principles:
  - The best junior ski orienteers of each Federation shall be offered competitions of high technical quality.
  - The event shall have a social, rather than a competitive atmosphere, accentuating exchange of experience.
  - The costs of participating shall be kept low.

#### 3. Event programme

- 3.1 The event dates and programme are proposed by the organiser and approved by the IOF Council.
- WOC 3.2 The World Ski Orienteering Championships is organised every odd year. The programme shall include Sprint, Middle and Long distance competitions, a Sprint Relay and a normal Relay as well as an opening ceremony, a closing ceremony and adequate model events and rest. The Middle and Long distance competitions are single race competitions. Either the Long distance competition or the Middle distance competition shall have a mass start. The Sprint distance competition may be organised as a qualification race competition with parallel qualification race heats for both men and women. The programme shall be no longer than 7 days.
  - WCup 3.3 The World Cup is organised every even year. The Individual World Cup consists of a number of individual events. The Relay World Cup consists of a number of relay events.
  - WCup 3.4 The IOF Council determines the number and types of World Cup events and any necessary special rules.
  - WCup 3.5 A World Cup event can be organised separately or in conjunction with another event. If another competition is organised on the same day, it shall take place before or after the World Cup competition.
  - WCup 3.6 The first individual competition of each World Cup season shall be a Middle distance or Long distance competition with a mass start in order to give equal conditions to all competitors.
  - JWOC 3.7 The Junior World Ski Orienteering Championships is an annual event. The programme shall include a Long distance single race competition, a Middle distance single race competition, a Sprint single race competition and a Relay as well as an opening ceremony, a closing ceremony and adequate rest and model events. The programme shall be no longer than 6 days.
  - WMOC 3.8 The World Masters Ski Orienteering Championships is an annual event. The programme shall include one multi-race competition and adequate training or model events. The competition consists of two long distance races and the combined times of these two races forms the final result. The programme shall be no longer than 4 days.
  - WRE 3.9 The events which are selected to be IOF World Ranking Events are chosen by Federations according to criteria determined by the IOF.

#### 4. Event applications

- 4.1 Any Federation may apply to organise an IOF event.
- 4.2 Applications shall be forwarded by the Federation to the IOF Secretariat. The official application form shall be used, and the applications shall contain all requested information and guarantees.

- 4.3 The IOF Council may impose a levy on any IOF event. The amount of the levy shall be announced at least six months before the closing date for applications for that event.
- 4.4 The IOF Council can void the sanctioning of an event if the organiser fails to comply with the rules, the norms, the IOF Event Adviser's directions or the information submitted in the application. The organiser cannot claim damages in this case.
- WOC 4.5 Applications shall be received no later than 31 January three years prior to the championship year. The organising Federation is appointed by the IOF Congress the same year. The appointment must be confirmed by the signing, within 12 months, of a contract to organise the event, else Council may make an alternative appointment.
- WCup JWOC Applications shall be received no later than 31 January two years prior to the event year. The provisional appointment of organisers or organising Federations is made by the IOF Council by October 31st the same year. Each appointment must be confirmed by the signing, within 6 months, of a contract to organise the event, else Council may make an alternative appointment.
- WCup 4.7 Each Federation may submit more than one application, ranked in priority order.
- WRE 4.8 The IOF Council shall indicate, by the end of June prior to the season, each Federation's allocation of WREs for the year in question and the criteria these events must meet. Applications shall be due no later than 31 August prior to the season and shall be approved or rejected by the IOF Council by 31 October the same year.

#### 5. Classes

- 5.1 Competitors are divided into classes according to their gender and age. Women may compete in men's classes.
- 5.2 Competitors aged 20 or younger belong to each class up to the end of the calendar year in which they reach the given age. They are entitled to compete in older classes up to and including 21.
- 5.3 Competitors aged 21 or older belong to each class from the beginning of the calendar year in which they reach the given age. They are entitled to compete in younger classes down to and including 21.
- WRE 5.4 The main competition classes are called W21 and M21, for women and men respectively.
- WRE 5.5 The W21 and M21 classes shall be restricted to competitors classified as elite competitors by their Federation or who are selected for the class based on their position in a Federation's ranking scheme.
- WRE 5.6 Should a class have too many entries, it may be split into parallel classes based on the competitors' previous performances.
- WOC 5.7 In both individual and relay competitions, there is one class for women and one for WCup men. There are no age restrictions.
- JWOC 5.8 In both individual and relay competitions, there is one class for women and one for men. Only competitors who are entitled to compete in the classes W20 or M20 may participate.
- WMOC 5.9 The following classes shall be offered: W35, M35, W40, M40, W45, M45, W50, M50, W55, M55, W60, M60, W65, M65, W70, M70, W75, M75, W80, M80, W85, M85. Classes for older orienteers (e.g. W90, M90) may be offered at the organiser's discretion.

### 6. Participation

JWOC

6.13

	6. Participation		
WOC WCup JWOC	6.1	A competitor may represent only one Federation during any one 12 month period running from November to October.	
WOC WCup JWOC	6.2	Competitors who are representing a Federation shall have full passport-holding citizenship of the country of that Federation.	
WOC WCup JWOC	6.3	Each participating Federation shall appoint a team manager to act as a contact person between the team and the organiser. It is the team manager's duty to see that the team receives all necessary information.	
	6.4	Competitors participate at their own risk. Insurance against accidents shall be the responsibility of their Federation or themselves, according to national regulations.	
WOC	6.5	All competitors represent a Federation. Each Federation may enter a team of up to 14 competitors — up to 7 women and 7 men — and an unlimited number of team officials.	
WOC	6.6	In each individual competition, every Federation may enter up to 4 women and 4 men and, in addition, the current World Champions for the distance may be entered by their Federation(s) provided they are members of the Federation's team. If the Sprint competition is a qualification race competition, then, in the absence of ties, the number qualifying for the final from each heat shall be such that the final has a total of 30 competitors (or the smallest possible number above 30).	
WOC	6.7	In the Relay, each Federation may enter one women's team and one men's team, each consisting of 3 team members. Teams with competitors from more than one Federation are not allowed but incomplete teams may start. Under no circumstances may persons other than entered competitors (rule 6.5) participate in the competition.	
WOC	6.7a	In the Sprint Relay, each Federation may enter one team consisting of 2 team members of whom at least one must be a woman. Teams with competitors from more than one Federation are not allowed and incomplete teams may not start. Under no circumstances may persons other than entered competitors (rule 6.5) participate in the competition.	
WCup	6.8	All competitors represent a Federation. Each Federation may enter up to 6 women and 6 men in each individual competition. If a World Cup Event is arranged in conjunction with a Regional Championships, the reigning regional champions of that region in each format are allowed to compete in the World Cup event of that format in addition to their Federation's quotas.	
WCup	6.9	Each Federation may enter up to 2 women's and 2 men's teams, each consisting of 3 competitors, in each Relay competition. A Federation may not enter more than 6 men and 6 women in the competition.	
WCup	6.10	The organising Federation may have two additional competitors as official World Cup competitors in the individual competitions. These competitors shall start in the lowest ranked start group.	
JWOC	6.11	All competitors represent a Federation. Each Federation may enter a team of up to 14 competitors — up to 7 women and up to 7 men — and an unlimited number of team officials.	
JWOC	6.12	In each individual competition, each Federation may enter up to 6 women and 6 men.	

In the relay, each Federation may enter up to 2 women's and 2 men's teams, each consisting of 3 team members.

WCup JWOC 6.14 If a Federation is unable to make up full relay teams, it may form incomplete teams or teams with competitors from other federations. Under no circumstances may persons other than entered competitors participate in the competition.

#### 7. Costs

- 7.1 The costs of organising an event are the responsibility of the organiser. To cover the costs of the competition(s), the organiser may charge an entry fee for competitors and an accreditation fee for non-competitors (team officials, media etc). This fee shall be kept as low as possible and shall be approved by the IOF Event Adviser. For an event with several competitions the organiser must offer competitors the option of a fee for each competition entered. Entry fees are for individual races but may additionally be offered as a discounted package. No extra competitor accreditation fees are allowed. The IOF Event Advisor can approve other fees, i.e. transport, third party fees, etc. against verified real costs.
- 7.2 Each Federation or individual competitor is responsible for paying the entry fee as specified in the invitation. The time limit for paying the entry fee shall not be earlier than 6 weeks prior to the event.
- 7.3 Late entries can be charged an additional fee. The amount of the additional fee shall be approved by the IOF Event Adviser.
- 7.4 Each Federation or individual competitor is responsible for defraying the expenses of travel to the event, accommodation, food and transport between the accommodation, event centre and competition sites. If the use of official transport to the competition sites or other service provided by the organisers is mandatory, the entry fee shall include these costs.
- 7.5 The travelling costs of the IOF appointed Event Adviser and Assistant/s, to and from the venue, shall be paid by the IOF. Local costs during controlling visits and the event days are paid by the organiser or the organiser's Federation according to national agreements.
- 7.6 All costs of IOF Event Advisers and Assistants appointed by a Federation shall be paid by the organiser or the Federation according to national agreements.

WOC WCup JWOC

- 7.7 Unless there is good standard accommodation and food at a very low price, different standards of accommodation and food shall be offered, allowing competitors a choice of price groups. The fees for the competition, the food and the accommodation must be shown as three separate amounts. In any case it shall not be obligatory to use the accommodation arranged by the organiser.
- 7.8 If the event (or part of the event) has to be cancelled, the organiser may retain a minimum proportion of the entry fee in order to cover committed costs.

#### 8. Information about the Event

8.1 All information and ceremonies shall be at least in English. Official information shall be given in writing. It may be given simply orally only in response to questions at team officials' meetings or in urgent cases.

WOC WCup JWOC 8.2 Information from the organiser or the IOF Event Adviser shall be given in the form of bulletins. Bulletins shall be published on, or by being linked to, the IOF Web Site. Notification that Bulletin 3 has been published shall be sent by e-mail to all participating Federations. If further information is necessary, it shall be given to all appropriate Federations.

#### WOC WCup JWOC

- 8.3 Bulletin 1 (preliminary information) shall include the following information:
  - organiser and the names of the event director, Event Adviser and controller(s)
  - address and telephone/fax number/e-mail address/web page for information
  - venue
  - dates and types of the competitions
  - classes and any participation restrictions
  - opportunities for training
  - general map of the region
  - embargoed areas
  - any peculiarities of the event

WOC

• a colour copy of the most recent version of any previous orienteering map(s) of the embargoed areas

#### WOC WCup JWOC

#### 8.4 Bulletin 2 (invitation) shall include the following information:

- all information given in Bulletin 1
- official entry and accommodation forms
- latest date and address for entries
- entry fee for competitors and team officials
- latest date and address for the payment of the entry fees
- types and cost of accommodation and food
- latest date for reservation of official accommodation
- description of any transport offered
- directions for obtaining entry permits (visas)
- details of opportunities for training
- description of terrain, climate and any hazards
- event programme
- map scales, vertical contour intervals and any additional or modified symbols
- winning time and approximate length of each course
- address and telephone/fax number/e-mail address of the official responsible for the media
- the exact location of each competition area and finish arena (if they have been decided)

WCup JWOC WOC WCup JWOC

- a colour copy of the most recent version of any previous ski orienteering or orienteering map(s) of the embargoed areas
- directions for the registration of media representatives and any extra representatives of the Federations

#### WOC WCup JWOC

#### 8.5 Bulletin 3 (event information) shall include the following information:

- latest date for sending the exact number of participants
- latest date for sending the names of participants
- detailed programme of the event, including timetable for final name entries and for the allocation of start groups
- details of the terrain
- summary of entries received
- any permitted deviations from the rules
- address and telephone/fax number/e-mail address of the competition office
- details of accommodation and food
- transport schedule
- team officials' meetings
- the exact location of each competition area and finish arena

#### WOC WCup JWOC

- 8.6 Bulletin 4 (additional event information) shall be given on arrival of the competitors and shall include final details of event information including:
  - the length, total climb, number of controls and number of refreshment controls on each individual course and, for relays, on each leg
  - any anti-doping requirements
  - all Special Rules relevant to the event
  - any additional regulations and any Rule Deviations that have been granted
  - the time limits for complaints
  - the location for making complaints
  - maximum skiing times
  - names and federations of jury members

As much information as possible should be put in Bulletin 4, leaving the minimum of information to be communicated at team officials' meetings.

#### WOC

8.7 Bulletin 1 shall be published 24 months before the event, Bulletin 2 shall be published 10 months before the event and Bulletin 3 shall be published 2 months before the event.

#### WCup JWOC

8.8 Bulletin 1 shall be published 12 months before the event, Bulletin 2 shall be published 6 months before the event and Bulletin 3 shall be published 2 months before the event.

#### WMOC 8.9 WRE

Information from the organiser shall be given in the form of two bulletins. Bulletin 1/2 shall be available on the internet via the IOF web site. Bulletin 3 is provided to all competitors.

- WMOC 8.10 Bulletin 1/2 shall be available 12 months before the event; Bulletin 3 shall be available 1 month before the event.
- WRE 8.11 Bulletin 1/2 shall be available 4 months before the event; Bulletin 3 shall be available 1 week before the event.

#### WMOC 8.12 WRE

Bulletin 1/2 (preliminary information and invitation) shall include the following information:

- organiser and the names of the event director and controller(s)
- address and telephone/fax number/e-mail address/web page for information
- venue
- dates and types of the competitions
- classes and any participation restrictions
- general map of the region
- embargoed areas
- any peculiarities of the event
- official entry form
- latest date and address for entries
- entry fee for competitors
- latest date and address for the payment of the entry fees
- types and cost of accommodation and food
- description of any transport offered
- directions for obtaining entry permits (visas)
- details of opportunities for training
- description of terrain, climate and any hazards
- event programme
- scales, vertical contour intervals and any additional or modified map symbols
- expected winning time

#### WMOC WMOC

- a recent sample map showing the type of terrain
- information about how to obtain copies of any previous map(s) of the embargoed areas

#### WMOC 8.13 WRE

- Bulletin 3 (event information) shall include the following information: detailed programme of the event, including start lists
  - details of the terrain
  - summary of entries received
  - any permitted deviations from the rules
  - address and telephone/fax number/e-mail address of the competition office
  - transport schedule
  - the length, total climb, number of controls and number of refreshment controls
  - the time limits for complaints
  - the location for making complaints
  - maximum skiing times
  - names and federations of jury members

#### 9. Entries

- 9.1 Entries shall be submitted according to the instructions given in Bulletin 2. At least the following details shall be supplied for each competitor: family name and first name, gender, year of birth, Federation. The names of the team officials shall be supplied. Late entries can be refused.
- 9.2 A competitor may only enter one class in any one competition.
- 9.3 The organiser may exclude competitors or teams from starting if their entry fee is not paid and no agreement has been reached about payment.

WOC
WCup
<b>JWOC</b>

- 9.4 Reservations and reservation fees for accommodation shall reach the organiser at the times specified in Bulletin 2.
- WOC WCup JWOC
- 9.5 Competitors may only be selected and entered by their Federation.

#### WOC WCup JWOC

- 9.6 Entries giving the number of competitors of each gender, the number of relay teams, the number of team officials and the team manager's name, address, e-mail address and phone/fax numbers shall reach the organiser no later than 2 months before the event.
- WOC WCup JWOC
- 9.7 Each competitor's name and gender and the names of the team officials shall reach the organiser no later than 10 days before the event. Changes may be made to the team until 15.00 hours on the day before the first competition.
- WOC WCup JWOC
- 9.8 Names of the competitors and, if required, their starting group allocation or their skiing order within a relay team shall reach the organiser no later than 15.00 hours on the day before the competition.
- WOC WCup JWOC
- 9.9 No competitor may be replaced within one hour of the first start. In relays, this also applies to the skiing order of the team members.

### WOC WCup JWOC

- 9.10 In individual competitions, between 15.00 hours on the day before the competition and one hour before the first start in the class, a competitor may be replaced for a valid reason (e.g. accident or illness). Change of starting group or qualification race heat is not permitted. No replacement is possible for finals of qualification race competitions or for multi-race competitions after the first race. After the start draw, no substitutions are allowed in the red group (WOC) and in the Top 15 (WCup).
- WOC WCup JWOC
- 9.11 In relays, changes of names of the relay team members and/or their skiing order shall reach the organiser at least one hour before the start of the relay.
- WOC 9.12 Replacement of a competitor after 15.00 hours on the day before the event may only be made from within the entered team.

WOC WCup JWOC 9.13 In each individual competition each Federation shall allocate its competitors to specified starting groups. Before allocating a second competitor to a group, a Federation shall allocate one competitor to each group. If a Federation fails to allocate its competitors to starting groups, the organiser shall decide the allocation.

#### 10. Travel and transport

WOC WCup JWOC 10.1 Each Federation is responsible for organising its own travel.

WOC WCup JWOC On request, the organiser shall arrange to transport teams from the nearest international airport or railway station to the event centre or accommodation.

WOC WCup JWOC

- 10.3 Transport between the accommodation, event centre, competition sites, etc may either be arranged by the organiser or by the teams. On request, the organiser shall arrange all necessary transport during the event.
- 10.4 The use of official transport to a competition site may be declared mandatory by the organiser.

#### 11. Training and model event

- 11.1 Training opportunities shall be offered before the competition if requested.
- On the day prior to the first competition of an event, the organiser shall put on a model event to demonstrate the terrain type, map quality, different types of tracks, control set-up, refreshment points and marked routes.
- 11.3 Competitors, team officials, IOF officials and media representatives shall be offered the opportunity to participate in the model event.
- 11.4 If deemed necessary by the IOF Event Adviser, further model events shall be organised.
- 11.5 If deemed appropriate by the IOF Event Adviser, the model event may be organised on the day of the competition.

WOC

11.6 Equal opportunity for training shall be offered to all Federations. The organiser shall offer training opportunities in the 12 months before the Championships. Terrain and maps should as far as possible be similar to those of the championships.

#### 12. Starting order and heat allocation

- 12.1 In an *interval start*, the competitors start singly at equal start intervals. In a *mass start*, all competitors in a class start simultaneously; in relays this applies only to the team members skiing the first leg. In a *chasing start*, the competitors start singly at start times and intervals determined by their previous results.
- 12.2 The starting order shall be approved by the IOF Event Adviser. The start draw may be public or private. It may be made by hand or by a computer.
- 12.3 The start list shall be published on or before the day prior to the competition and before any team officials' meeting that must be held according to Rule 13.1. If a qualification race is organised on the same day as the finals, the start list for the finals shall be published at least one hour before the first start.
- 12.4 The names of all competitors and teams correctly entered shall be drawn, even if a competitor has not arrived. Entries without names (blanks) are not considered for the draw. If the starting group allocations have not been received by the deadline, the organiser may allocate the competitors into starting groups.

In a chasing start race where the first starters are likely to be disadvantaged by the weather conditions (e.g. heavy snowfall), the organiser and the IOF Event Adviser may decide to postpone the start. In special situations the organiser and the IOF Event Adviser may decide that an interval start procedure should be used. In this case the starting list will be in reverse order of the result list of the first part of the competition.

WOC JWOC 12.6 For an interval start other than finals of qualification race competitions, the starting order shall be drawn at random. The draw shall be made normally in three (four at WOC) unrestricted starting groups. There may be a further restricted group (Red Group at WOC) with the starting order drawn at random.

WOC JWOC 12.7 For an interval start, except within a restricted starting group, competitors from the same Federation may not start consecutively. If they are drawn to start consecutively, the next competitor drawn shall be inserted between them. If this happens at the end of the draw or at the end of a starting group, the competitor before them shall be inserted between them.

WOC

- 12.8 In qualification race competitions, the start draw for the qualification races shall be made so that each of the following requirements is satisfied:
  - as many competitors as there are parallel heats shall start at each start time, with the possible exception of the last start time
  - as far as possible, the heats shall be equally strong
  - competitors from the same Federation shall not start at consecutive times if they are in the same heat
  - the allocation of competitors to the different heats shall be drawn so that the competitors of a Federation are distributed as equally as is mathematically possible among the heats.

WOC

12.9 In qualification race competitions, the starting order of the finals shall be the reverse of the placings in the qualification race heats; the best competitors shall start last. Ties shall be decided by drawing lots. E.g. if two competitors tie for 6th place in heat 1, a coin shall be tossed to determine who has placing 6 and who has placing 7 in heat 1 for the purposes of this rule. Competitors with the same placing in the different parallel heats shall start in the sequence of the number of their heat, i.e. 1, 2, 3...; the winner of the highest numbered heat therefore starts last.

WOC

- 12.10 If competitors from the same Federation get consecutive start times in a final of a qualification race competition, the following procedure is carried out commencing at the end of the start list (i.e. at the last starter). The latest starter from a different Federation starting before two competitors from the same Federation with consecutive start times is inserted between these two competitors in the start list. If two or more competitors from the same Federation are left with consecutive start times at the start of the start list, the reverse procedure is then carried out. E.g. A₁, A₂, A₃, B, C, D, E₁, E₂, E₃ → A₁, A₂, A₃, B, C, E₁, E₂, D, E₃ → A₁, A₂, A₃, B, E₁, C, E₂, D, E₃ → (reverse procedure) → A₁, B, A₂, A₃, E₁, C, E₂, D, E₃ → A₁, B, A₂, E₁, A₃, C, E₂, D, E₃.
- 12.11 Before mass start draws, each of the various course combinations shall be allocated to start numbers. Competitors (in an individual event with loops) or teams (in a relay) from the same federation shall not have the same course combinations. The course combinations shall remain secret until after the last competitor has started.

WOC 12.12 In qualification races, the heat allocation of each competitor shall be drawn under the supervision of the IOF Event Adviser. The heat allocation of each competitor shall not be revealed to the competitor until after the competitor's start.

WOC WCup JWOC 12.13 In the relay, the entered teams are given start numbers according to the sequence of their placings in the last relay championship (for WCup the most recent total WCup relay result list) in question. Those not being placed in the last championship are given the subsequent start numbers in alphabetical order. The allocation of the various course combinations to start numbers shall be supervised by the IOF Event Adviser. The allocation shall be kept secret until after the last competitor has started.

WCup JWOC

- 12.14 Incomplete relay teams and teams with competitors from more than one Federation shall start at the same time as the official relay start.
- 12.15 For an interval start, the normal start interval is 2 minutes for Long distance, 2 minute for Middle distance and 1 minute for Sprint. In special cases, the organiser and the IOF Event Adviser may decide shorter or longer start intervals.

WOC

12.16 The last starting group, group 5, also referred to as "The Red group", is restricted. For each WOC, membership of the Red group and starting order within the red group shall be according to the Special Rules "Red group allocation for the Ski Orienteering World Championship" issued by IOF Council a minimum of one year before WOC.

WOC 12.17

- 12.17 In the individual race with mass start the following start order is used:
  - Row 1 Red group (following rule 12.16)
  - Row 2 Start group 4
  - Row 3 Start group 3
  - Row 4 Start group 2
  - Row 5 Start group 1

WOC JWOC

- 12.18 The starting order of the starting groups is normally consecutively in number order, i.e. 1, 2, 3, 4, Red group (for WOC). A change of starting position of the restricted group (Red Group), due to special snow or weather conditions, may be decided by the organiser and the IOF Event Adviser, no later than 2 hours before the first start.
- WMOC 12.19 The start order for the first race shall be drawn at random. The start order for the second race shall be the reverse of the start order in the first race.

#### 13. Team officials' meeting

WOC WCup JWOC 13.1 The organiser shall hold a team officials' meeting on the day prior to the competition. This meeting shall start no later than 19.00 hours. The IOF Event Adviser shall lead or supervise the meeting.

WOC WCup JWOC 13.2 The competition material (start lists, control cards, transport schedule, latest information, weather forecast etc) shall be handed out before the meeting starts. Final start lists, start number bibs and control cards may be handed out later; by 21.00 hours at the latest.

WOC WCup JWOC 13.3 Team officials shall have the opportunity to ask questions during the meeting.

WMOC 13.4 WRE

3.4 There are no team officials' meetings.

#### 14. Terrain

- 14.1 The terrain shall be suitable for setting competitive ski orienteering courses. The objectives of the Leibnitz convention shall be considered when choosing the terrain and event arena, and in designing the courses. That may involve the use and reuse of existing skiing arena facilities with major track systems.
- 14.2 When deciding terrain for, and planning major IOF ski orienteering events, the criteria given in Appendix 8 "Guidelines for use of terrain for Major Ski Orienteering Events" shall be followed.

- 14.3 The competition terrain shall normally be embargoed as soon as it is decided. If that is not possible, then arrangements for access to the terrain must be published as soon as possible. The guidelines in Appendix 8 should be followed.
- 14.4 Permission for access into embargoed terrain shall be requested from the organiser if needed.
- 14.5 Any rights of nature conservation, forestry, hunting, etc in the area shall be respected.

#### **15. Maps**

- 15.1 Maps, course markings and additional overprinting shall be drawn and printed according to the IOF *International Specification for Orienteering Maps*. Deviations need approval by the IOF Council.
- 15.2 Errors on the map and changes which have occurred in the terrain since the map was printed shall be overprinted on the map if they have a bearing on the event.
- 15.3 Maps shall be protected against moisture and damage.
- 15.4 If a previous orienteering map or ski orienteering map of the competition area exists, colour copies of the most recent edition must be displayed for all competitors on the day prior to the competition.
- On the day of the competition, the use of any map of the competition area by competitors or team officials is prohibited until permitted by the organiser.
- 15.6 The competition map must not be larger than required by a competitor to ski the course. The map shall only be printed on one side of the paper.
- WMOC 15.7 The map for age classes 45 and above shall be at a scale of 1:10000, and this scale may be used for all classes with the approval of the IOF Event Adviser.
  - 15.8 The IOF and its member Federations shall have the right to reproduce the event maps with courses in their official magazines or on their websites without having to pay a fee to the organiser.

#### 16. Courses

- 16.1 The IOF *Principles for Course Planning* (see Appendix 5) and the Leibnitz Convention (see Appendix 7) shall be followed.
- The standard of the courses shall be worthy of an international ski orienteering event. The navigational skill, concentration and skiing ability of the competitors shall be tested. All courses shall call upon a range of different orienteering techniques. Courses for sprint shall require, in particular, a high level of concentration throughout the course, detailed map reading and frequent decision making. Courses for long distance shall require route choice, while courses for middle distance may represent a mix of the requirements for sprint and long distance courses.
- 16.3 The length of the courses shall be given in two ways:
  - as the length of a straight line from the start via the controls to the finish deviating for, and only for, physically impassable obstructions (high fences, impassable cliffs etc), prohibited areas and marked routes
  - following the shortest sensible route choice from the start via the controls to the finish.
- 16.4 The total climb shall be given as the climb in metres along the shortest sensible route.
- 16.5 The total climb of a course should not exceed 6% of the length of the shortest sensible route choice.

- WOC 16.6 For qualification races, the courses for the parallel heats shall be as nearly as possible WCup of the same length and standard.
  - 16.7 In relay competitions, the controls shall be combined differently for the teams, but all teams shall ski the same overall course. Generally the winning times for each leg should be as equal as possible. However, in specific cases (mixed relays, different ages etc) leg lengths may be different. However, the sum of the winning times of the legs shall be kept as prescribed. All teams must ski the different length legs in the same sequence.
  - 16.8 In individual competitions, the controls may be combined differently for the competitors, but all competitors shall ski the same overall course.
- WOC 16.9 The courses shall be set to give the following winning times in minutes:

women	men	
75-90	95-100	Long distance
40-45	40-45	Middle distance
10-15	10-15	Sprint
30-35	30–35	Relay for each leg
100 (3 legs)	100 (3 legs)	Relay, sum of fastest times for all legs
6-10	6-10	Sprint Relay for each leg
35-55	35-55	Sprint Relay, sum of fastest times for all legs

WCup 16.10 The courses shall be set to give the following winning times in minutes:

women	men	
75-90	95-100	Long distance
40-45	40-45	Middle distance
10-15	10-15	Sprint
30-35	30–35	Relay for each leg
100	100	Relay, sum of fastest times for all legs
120-135	150-165	Extra long distance
8-10	8-10	Sprint Relay for each leg
55	55	Sprint Relay, sum of fastest times for
		all legs

JWOC 16.11 The courses shall be set to give the following winning times in minutes:

women	men	
60-65	70-75	Long distance
25-35	25–35	Middle distance
10-15	10-15	Sprint
30-35	30–35	Relay for each leg
95	95	Relay, sum of fastest times for all legs

WMOC 16.12 The courses shall be set to give the following winning times in minutes:

time	men	time
55	M35	70
50	M40	65
45	M45	60
45	M50	55
45	M55	50
45	M60	50
45	M65	50
45	M70	50
45	M75	50
45	M80	50
45	M85	50
	55 50 45 45 45 45 45 45 45 45	55 M35 50 M40 45 M45 45 M50 45 M55 45 M60 45 M65 45 M70 45 M75 45 M80

Depending on local conditions, the lengths of courses may vary.

#### 17. Restricted areas and routes

- 17.1 Rules set by the organising Federation to protect the environment and any related instructions from the organiser shall be strictly observed by all persons connected with the event.
- 17.2 Out-of-bounds or dangerous areas, forbidden routes, line features that shall not be crossed, etc shall be marked on the map. If necessary, they shall also be marked on the ground. Competitors shall not enter, follow or cross such areas, routes or features.
- 17.3 Compulsory routes, crossing points and passages shall be marked clearly on the map and on the ground. Competitors shall follow the entire length of any marked section of their course.

#### 18. Control descriptions

18.1 Control descriptions are not used in ski orienteering.

#### 19. Control set-up and equipment

- 19.1 The control point given on the map shall be clearly marked on the ground and be equipped to enable the competitors to prove their passage.
- 19.2 Each control shall be marked by a control flag consisting of three squares, about 30 cm x 30 cm, arranged in a triangular form. Each square shall be divided diagonally, one half being white and the other orange (PMS 165).
- 19.3 All controls must be situated on tracks shown on the competition map.
- 19.4 Each control shall be identified with a code number, which shall be fixed to the control so that a competitor using the marking device can clearly read the code. Numbers less than 31 may not be used. The figures shall be black on white, between 5 and 10 cm in height and have a line thickness of 5 to 10 mm. Horizontally-displayed codes shall be underlined if they could be misinterpreted by being read upside down (e.g. 161).
- 19.5 The control number and code number shall be printed on the map as specified in the IOF *International Specification for Orienteering Maps*.
- 19.6 To prove the passage of the competitors, there shall be a sufficient number of marking devices in the immediate vicinity of each flag.
- 19.7 If the estimated winning time is more than 45 minutes, refreshments shall be available at least every 30 minutes at the estimated speed of the winner.
- 19.8 At least pure water of suitable temperature shall be offered as refreshment. If different refreshments are offered, they shall be clearly marked.
- 19.9 All controls for which there are security concerns shall be guarded.

#### 20. Punching systems

- 20.1 Only IOF licensed electronic punching systems may be used, as per Appendix 3.
- 20.2 Competitors shall have the possibility of practising with the electronic punching system at the model event.
- 20.3 Competitors shall be responsible for punching their own card at each control using the punching device provided.
- 20.4 The control card must clearly show that all controls have been visited.

- 20.5 A competitor with a control punch missing or unidentifiable shall not be placed unless it can be established with certainty that the punch missing or unidentifiable is not the competitor's fault. In this exceptional circumstance, other evidence may be used to prove that the competitor visited the control, such as evidence from control officials or cameras or read-out from the control unit. In all other circumstances, such evidence is not acceptable and the competitor must be disqualified. In the case of SportIdent, this rule means that:
  - If one unit is not working, a competitor must use the backup provided and will be disqualified if no punch is recorded
  - If a competitor punches too fast and fails to receive the feedback signals, the card will not contain the punch and the competitor must be disqualified (even though the control unit may have recorded the competitor's card number
- 20.6 The organiser has the right to have the control card checked by officials at appointed controls.
- 20.7 Competitors who lose their control card, omit a control or visit controls in the wrong order shall be disqualified.

#### 21. Equipment

- 21.1 As long as the rules of the organising Federation do not specify otherwise, the choice of clothing shall be free.
- 21.2 Start number bibs shall be clearly visible and worn as prescribed by the organiser. If placed on the leg, the bibs shall not be larger than 20 cm × 24 cm with figures at least 10 cm high. The number bibs may not be folded or cut.
- 21.3 During the competition the only navigational aids that competitors may use are the map provided by the organiser, and a compass.
- 21.4 Competitors shall use or carry their own skis and ski poles from the start via the controls to the finish. However, competitors may leave broken or damaged equipment along the course.
- 21.5 Every team shall have the chance to have skis, bindings, ski shoes, ski poles and other equipment deposited at the start and finish area, and for longer distances, at one or more pre-determined controls. Undamaged ski equipment may only be changed in these designated areas, and no assistance (e.g. from a coach) is permitted during the change.
- 21.6 Competitors may not use or carry telecommunication equipment between entering the pre-start area and reaching the finish in a race, unless the equipment is approved by the organiser. GPS data loggers with no display or audible feedback can be used unless the organiser specifically forbids the use of such equipment. The organiser may require competitors to wear a tracking device.

#### 22. Start

- 22.1 In individual competitions, the start is normally an interval start. In relay competitions, the start is normally a mass start.
- 22.2 For an interval start, a simultaneous start or a chasing start, the start must be prepared so that two or more competitors may start side by side. The first 100-200 metres must be prepared to a width of at least three metres. For a mass start, the "Guidelines for Ski Orienteering mass-start events" shall be followed.

WOC WCup JWOC All competitors shall have at least 30 minutes for undisturbed preparation and warm-up at the start area. Only competitors who have not started and team officials shall be allowed into the warm-up area.

- 22.4 The start may be organised with a pre-start before the time start, situated at one edge of the warm-up area. If there is a pre-start, a clock showing the competition time to team officials and competitors shall be displayed there, and the competitors' names shall be called or displayed.
- 22.5 At the start, a clock showing the competition time to the competitors shall be displayed. If there is no pre-start, competitors' names shall be called or displayed.
- 22.6 The start shall be organised so that later competitors and other persons cannot see the map, courses, route choices or the direction to the first control. If necessary, there shall be a marked route from the time start to the point where orienteering begins.
- 22.7 The competitor is responsible for taking the right map. The competitor's start number or name or course shall be indicated on or near the map so as to be visible to the competitor before he/she starts.
- 22.8 The point where orienteering begins shall be shown on the map with the start triangle and, if it is not at the time start, marked in the terrain by a control flag but no marking device.
- 22.9 For an interval start, and for a simultaneous start, competitors shall receive the map 15 seconds before the start in sprint and one minute before the start in other distances. For mass starts competitors shall receive the map 15 seconds before the start. For chasing starts the competitors shall take their map themselves after the time start.

#### WOC WCup

- 22.10 For an interval start, and for a simultaneous start, competitors shall receive the map 15 seconds before the start in sprint and 30 seconds before the start in other distances. For mass starts competitors shall receive the map 15 seconds before the start. For chasing starts the competitors shall take their map themselves after the time start.
- WRE 22.11 The organiser may decide to hand out the map 30 seconds before the start in middle and long distance competitions.
  - 22.12 Competitors who are late for their start time through their own fault shall be permitted to start. The organiser will determine at which time they may start, considering the possible influence on other competitors. They shall be timed as if they had started at their original start time.
  - 22.13 Competitors who are late for their start time through the fault of the organiser shall be given a new start time.
  - 22.14 The changeover between the members of each relay team takes place by touch. The changeover may be organised so that the incoming team member collects the map of the outgoing team member and hands it over as the changeover touch.
  - 22.15 Correct and timely relay changeover is the responsibility of the competitors, even when the organiser arranges an advanced warning of incoming teams.
  - 22.16 With the approval of the IOF Event Adviser the organiser may arrange mass starts for the later legs for relay teams that have not changed over.
  - 22.17 Once a relay team has accepted its disqualification no further members of that team shall be allowed to start.

#### WOC WCup JWOC

22.18 In the changeover area, outgoing team members shall have some advance warning of the arrival of their preceding team members

#### 23. Finish and time-keeping

23.1 The competition ends for a competitor when crossing the finishing line.

- 23.2 The route from the last control to the finish shall be bounded by tape or by rope. The last 200 m of the course before the finish, and before the exchange zones in relays, should be as straight as possible and prepared to a width of at least 6 m, if possible 9 m. The last 100-150 m will be the finish zone. The beginning of this zone must be clearly marked with a coloured line. This zone must be separated into at least 2 lanes (each of width 3 m) that must be clearly marked and highly visible but not interfering with the skis. Once the competitors enter the finish zone they must remain in their lane unless they are overtaking another competitor.
- 23.3 The finish line shall be at least 6 m wide (if possible 9 m) and shall be at right angles to the direction of the finish lanes. The exact position of the finish line shall be obvious to approaching competitors.
- When a competitor has crossed the finish line, the competitor shall hand in the control card and the competition map.
- 23.5 The finishing time shall be measured when the competitor's front foot crosses the finish line. Times shall be rounded down to whole seconds. Times shall be given in hours, minutes and seconds or in minutes and seconds only. Tenths of a second timing may be used in sprint races if appropriate timekeeping systems are used (see the IOF IT Commission paper "How to secure Fair Timekeeping)
- 23.6 The timekeeping systems shall measure times of competitors in the same class, relative to each other, with an accuracy of 0.5 seconds or better.

#### WMOC WRE

- 23.7 Punching at the finish line may be used as a timekeeping system.
- When a light beam is used for finish timing, the time is taken when the contact is broken. The measuring point of the light or photo barrier must be at height of 15 cm above the snow surface.

#### WOC WCup

- 23.9 Two independent timekeeping systems, a primary and a secondary, shall be used continuously throughout the competition.
- 23.10 In competitions with mass or chasing starts, finish judges shall rule on the final placings and a jury member shall be present at the finish line.

#### WOC WCup

- 23.11 In competitions with mass or chasing starts, a camera shall record the finish.
- 23.12 With the approval of the IOF Event Adviser, the organiser may set maximum skiing times for each class.
- 23.13 There shall be medical facilities and personnel at the finish, who are also equipped to work in the forest.

#### WOC

- 23.14 The maximum skiing times shall be:
  - Sprint, 90 minutes for women and men
  - Middle and Long distance, 3 hours for women and men
  - Relay, 6 hours for women and men.

#### 24. Results

24.1 Provisional results shall be announced and displayed in the finish area or the assembly area during the competition.

#### WOC WCup JWOC

- 24.2 Provisional results shall be available on the internet during the competition.
- 24.3 The official results shall be published no more than 4 hours after the latest allowable finishing time of the last starter. They shall be handed out on the day of the competition to each team manager and to accredited media representatives.

- 24.4 If the finals of a qualification race competition take place on the same day as the qualification races, the results of the qualification races shall be published no more than 30 minutes after the latest allowable finishing time of the last starter.
- 24.5 The official results shall include all participating competitors. In relays, the results shall include the competitors' names in the order in which they raced, and times for their legs as well as the course combinations that each skied.
- 24.6 If an interval start is used, two or more competitors having the same time shall be given the same placing in the results list. The position(s) following the tie shall remain vacant.
- 24.7 If a mass start or chasing start is used, the placings are determined by the order in which the competitors finish. In relays this will be the team member skiing the last relay leg.
- 24.8 In relays where there are mass starts for later legs, the sum of the individual times of the team members shall determine the placings of the teams that have taken part in such mass starts. Teams taking part in mass starts for later legs are placed after all teams which have changed over and finished in the ordinary way.
- 24.9 Competitors or teams who exceed the maximum time shall not be placed.
- WOC 24.10 Every accredited person (competitors, team officials, media representatives etc) shall be given a start list, an official results list and a competition map.
- WCup 24.11 Points shall be awarded according to the World Cup Guidelines.
- WCup JWOC The results of incomplete teams and teams with competitors from more than one Federation are not considered in determining the placings in relay competitions and shall not appear in the official results list.
- WCup 24.13 The organiser shall display, in the finish area, the old and the new total scores for at least the 20 best competitors and all Federations.
- WCup 24.14 The IOF Secretariat shall produce the official total score lists after every group of events and send them to all participating Federations and to all organisers.
- JWOC 24.15 If a Federation is represented by two teams in a relay class, only the team with the better result is considered in determining the placings.
- JWOC 24.16 For both classes, a *team score* is calculated for each Federation (to place the Federations in a *team competition*) by adding the placings of each Federation's three best competitors in both individual competitions and the official placing—multiplied by three—of its placed relay team. If a Federation has fewer than three finishers in any individual competition, every missing competitor is treated as though they finished one place behind the last finisher. If a Federation has no place in the relay competition, it is treated as if they finished one place behind the last official placed team. An overall team score is then calculated for each Federation by adding together its men's and women's team scores. The lowest score wins.
- WOC 24.17 The results shall be published on the internet and electronically submitted to the IOF WCup JWOC
- WMOC 24.18 The results shall be published on the internet within one day of the event.
- WRE 24.19 The World Ranking point calculation method for each season is decided by the IOF Council no later than the end of June prior to the season.

#### 25. Prizes

WRE

25.1 The organiser shall arrange a dignified prize-giving ceremony.

- 25.2 Prizes for men and women shall be equivalent.
- 25.3 If two or more competitors have the same placing, they shall each receive the appropriate medal and/or certificate.
- WOC 25.4 The title of World Champion shall be awarded in the following eight separate competitions:
  - women, Sprint men, Sprint
  - women, Middle distance men, Middle distance
  - women, Long distance men, Long distance
  - women, Relay
     men, Relay
- JWOC 25.5 The title of Junior World Champion shall be awarded in the following six separate competitions:
  - women, Sprint men, Sprint
  - women, Middle distance men, Middle distance
  - women, Long distance
     men, Long distance
  - women, Relay
     men, Relay
- WOC 25.6 The following prizes shall be awarded in all competitions:
  - 1st place Gold medal (plated) and certificate
     2nd place Silver medal (plated) and certificate
    - 3rd place Bronze medal and certificate
    - 4th-6th place Certificate

Medals and certificates shall be supplied by the IOF.

- WOC 25.7 The prize-giving ceremonies shall be performed by the representatives of the organising Federation and a representative of the IOF.
- WOC 25.8 In the relay, each individual member of the team shall receive the appropriate medal and/or certificate.
- WOC 25.9 During the prize-giving ceremony, the national flags of the first 3 competitors or teams shall be flown and the national anthem of the winner shall be played.
- WCup 25.10 The winners of each competition receive medals provided by the IOF. In each individual competition at least 6 competitors per class and in each relay competition at least the winning teams shall receive prizes provided by the organiser.
- WCup 25.11 The first 3 competitors in both classes in the overall Individual World Cup score lists after the last event receive medals provided by the IOF. At least the first 6 competitors in the overall score list after the last event receive prizes provided by the organiser of that event. The winning Federations of the overall Relay World Cup receive prizes provided by the IOF.
- JWOC 25.12 The winning Federation of the overall team competition (according to rule 24.16) receives a prize provided by the IOF.
- WMOC 25.13 The first 3 competitors in each class receive medals provided by the IOF.

#### 26. Fair play

**JWOC** 

- All persons taking part in a ski orienteering event shall behave with fairness and honesty. They shall have a sporting attitude and a spirit of friendship. Competitors shall show respect for each other, for officials, journalists, spectators and the inhabitants of the competition area. The competitors shall be as quiet as possible in the terrain.
- 26.2 In an individual interval start race, competitors are expected to navigate and move through the terrain independently.
- 26.3 Except in the case of an accident, obtaining assistance from other competitors or providing assistance to other competitors during a competition is forbidden. It is the duty of all competitors to help injured competitors.

- 26.4 Doping is forbidden. The *IOF Anti-Doping Rules* apply to all IOF events and the IOF Council may require doping control procedures to be conducted.
- 26.5 The organiser should publish the venue of the competition in advance. If the venue is not made public, all officials shall maintain strict secrecy about the competition area and terrain. In any case, strict secrecy about the courses must be kept.
- 26.6 Any attempt to survey or train in the competition terrain is forbidden, unless explicitly permitted by the organiser. Attempts to gain any information related to the courses, beyond that provided by the organiser, is forbidden before and during the competition.
- 26.7 The organiser shall bar from the competitions a competitor who is deemed to have a substantial advantage over other competitors. Such cases shall be discussed and decided after consultation with the IOF Event Adviser. (See Appendix 8)
- 26.8 Team officials, competitors, media representatives and spectators shall remain in the areas assigned to them.
- 26.9 Control officials shall neither disturb nor detain any competitor, nor supply any information whatsoever. They shall remain quiet, wear inconspicuous clothing and shall not help competitors approaching controls.
- 26.10 Having crossed the finish line, a competitor may not re-enter the competition terrain without the permission of the organiser. A competitor who retires shall announce this at the finish immediately and hand in the map and control card. That competitor shall in no way influence the competition nor help other competitors.
- 26.11 A competitor who breaks any rule, or who benefits from the breaking of any rule, may be disqualified.
- 26.12 Non-competitors who break any rule are liable to disciplinary action.
- 26.13 The organiser must void a competition if at any point it becomes clear that circumstances have arisen which make the competition unfair or dangerous for the competitors.

#### 27. Complaints

- 27.1 A complaint can be made about infringements of these rules or the organiser's directions.
- 27.2 Complaints can be made by team officials or competitors.
- 27.3 Any complaint shall be made in writing to the organiser as soon as possible. A complaint is adjudicated by the organiser. The complainant shall be informed about the decision immediately.
- 27.4 There is no fee for a complaint.
- 27.5 The organiser may set a time limit for complaints. Complaints received after this time limit will only be considered if there are valid exceptional circumstances which must be explained in the complaint.

#### 28. Protests

- 28.1 A protest can be made against the organiser's decision about a complaint.
- 28.2 Protests can be made by team officials or competitors.
- 28.3 Any protest shall be made in writing to a member of the jury no later than one hour after the organiser has announced the decision about the complaint.
- 28.4 There is no fee for a protest.

#### **29. Jury**

- 29.1 A jury shall be appointed to rule on protests.
- 29.2 The IOF Council decides for which events it shall appoint the jury. If the IOF is not appointing the jury, the Federation of the organiser shall appoint the jury.
- 29.3 The jury shall consist of 3 or 5 voting members, according to Rules 29.10–29.14, from different Federations. The IOF Event Adviser shall lead the jury but has no vote.
- 29.4 A representative of the organiser has the right to participate in the jury meetings but has no vote.
- 29.5 The organiser shall act according to the jury's decisions, e.g. to reinstate a competitor disqualified by the organiser, to disqualify a competitor approved by the organiser, to void the results in a class approved by the organiser or to approve results declared invalid by the organiser.
- 29.6 The jury is competent to rule only if all members are present. In urgent cases preliminary decisions may be taken if a majority of the jury members agree on the decision.
- 29.7 If a jury member declares him- or herself prejudiced or if a jury member is unable to fulfil his or her task, the IOF Event Adviser shall nominate a substitute.
- 29.8 Arising from its ruling on a protest, the jury in addition to instructing the organiser may recommend that the IOF Council excludes a person from some or all future IOF events in the case of a major violation of the rules.
- 29.9 Decisions of the jury are final.
- WOC 29.10 The jury is appointed by the IOF Council. It shall consist of 5 voting members from different Federations.
- JWOC 29.11 The jury is appointed by the IOF Council. It shall consist of 3 voting members from different Federations.
- WOC 29.12 The jury shall consist of both men and women. No jury member shall come from the organising Federation.
- WCup 29.13 The jury shall consist of 3 voting members from different Federations. Two members are appointed by the IOF Council. One member is appointed by the Federation of the organiser.
- WRE 29.14 The jury shall consist of 3 voting members, if possible from different Federations.

#### 30. Appeals

- 30.1 An appeal may be made against infringements of these rules if a jury is not yet set up, or if the event is over and the jury has dispersed. No appeal may be made against a jury decision.
- 30.2 An appeal may only be made by Federations.
- 30.3 An appeal shall be made in writing to the IOF Event Adviser appointing body as soon as possible.
- 30.4 There is no fee for an appeal.
- 30.5 Decisions about an appeal are final.
- 30.6 The IOF Council shall deal with the appeal.

#### 31. Event control

- All events, for which these rules are binding, shall be controlled by an *IOF Event Adviser*. The IOF Event Adviser shall be appointed within 3 months of the appointment of an organiser.
- 31.2 The IOF Council shall decide for which events it will itself appoint the IOF Event Adviser.
- 31.3 If the IOF Event Adviser is appointed by the IOF, he or she is the official representative of the IOF to the organiser, is subordinate to the IOF Council and communicates with the IOF Secretariat.
- 31.4 The Federation of the organiser shall always appoint a controller. This controller shall assist the IOF Event Adviser appointed by the IOF. If the IOF does not appoint an IOF Event Adviser for the event in question, the controller appointed by the Federation will be the IOF Event Adviser. The controller appointed by the Federation need not come from the same Federation.
- 31.5 All IOF Event Advisers shall hold the IOF Event Adviser's licence. No IOF Event Adviser or IOF Event Adviser's Assistant may have any responsibility for a participating team.
- The IOF Event Adviser shall ensure that rules are followed, mistakes are avoided and that fairness is paramount. The IOF Event Adviser has the authority to require adjustments to be made if he or she deems them necessary to satisfy the requirements of the event.
- 31.7 The IOF Event Adviser shall work in close collaboration with the organiser, and shall be given all relevant information. All official information sent to the Federations, such as bulletins, shall be approved by the IOF Event Adviser.
- 31.8 As a minimum, the following tasks shall be carried out under the authority of the IOF Event Adviser:
  - to approve the venue and the terrain for the event, including reserve area
  - to look into the event organisation and assess the suitability of the proposed accommodation, food, transport, programme, budget and training possibilities
  - to assess any planned ceremonies
  - to approve the organisation and layout of start, finish and changeover areas
  - to assess the reliability and accuracy of the time-keeping and results producing systems
  - to check that the map conforms with the IOF standards
  - to approve the courses after assessing their quality, including degree of difficulty, control sitings and equipment, chance factors and map correctness
  - to check any course splitting method and course combinations
  - to assess arrangements and facilities for the media
  - to assess arrangements and facilities for doping tests
- 31.9 The IOF Event Adviser shall make as many controlling visits as he or she deems necessary. The visits shall be planned in agreement with the appointing authority and the organiser. Immediately after each visit, the IOF Event Adviser shall send a brief, written report to the IOF Event Adviser appointing body with a copy to the organiser.
- 31.10 One or more assistants may be appointed by the IOF Event Adviser appointing body to help the IOF Event Adviser, particularly in the fields of mapping, courses, financing, sponsoring and media.
- 31.11 The IOF Event Adviser appointing body has the authority to revoke the appointment of the IOF Event Adviser.
- WOC 31.12 The IOF Event Adviser shall make 3 visits as a minimum: one at an early stage, one a year before the championships and one 3-4 months before the championships.

#### 32. Event reports

- No more than 3 weeks after the event, the organiser shall submit a short report to the IOF Event Adviser along with complete result lists.
- 32.2 No more than 4 weeks after the event, the IOF Event Adviser shall send a report to the IOF Event Adviser appointing body. The report should include any significant features of the event and details of any complaints or protests.

WOC WCup JWOC

- 32.3 The Organiser shall forward two sets of maps with course details and a complete results list to the IOF.
- WMOC 32.4 No more than 3 weeks after the event, the Organiser shall forward a selection of maps with course details, and a complete results list to the IOF.
- WOC 32.5 One copy of every bulletin, the final programme including start lists, a plan of the organisation and a final statement of accounts shall be sent to the IOF Secretariat for the archives no more than 6 months after the event.

#### 33. Advertising and sponsorship

- 33.1 Advertising of tobacco and hard liquor is not permitted.
- Advertising on track suits or other clothing which are worn by team members during the official ceremonies shall not exceed 300 cm<sup>2</sup>. There is no restriction to the amount of advertising on the competitors' competition clothing or equipment except for the start number bibs.

#### 34. Media service

- 34.1 The organiser shall offer the media representatives attractive working conditions and favourable opportunities to observe and report on the event.
- 34.2 As a minimum, the organiser shall make available to media representatives the following:
  - hotel accommodation of medium standard, to be paid for by the users
  - start lists, programme booklet and other information on the day prior to the competition
  - opportunity to take part in the model event
  - weather-protected, quiet working space in the finish area
  - result lists and maps with courses immediately after the competition
  - internet access to be paid for by the users.
- 34.3 The organiser shall make every effort to maximise media coverage as long as this does not jeopardise the fairness of the event.

#### 35. Cold weather safety

- 35.1 There are three main factors to be considered by the organiser and the IOF Event Adviser regarding cold weather safety: the temperature; the duration of the exposure; and the clothing and other protection against cold weather. These factors together with any other relevant information such as the 'wind chill factor' must be taken into consideration when a decision is made regarding cold weather.
- 35.2 If the temperature level is between minus 15° C and minus 20° C at any point of the course, recommendations regarding cold weather protection must be given to competitors and competition officials. Adequate controls must be established to ensure that the recommendations are being followed and the competitors' health and safety are protected.

35.3	If the temperature in a major portion of the course is minus $20^{\circ}$ C or below, the competition shall be delayed or cancelled. Such decision is to be made jointly by the organiser and the IOF Event Adviser.

# **Appendix 1: General competition classes**

#### 1. Age classes

- 1.1 Competitors are divided into classes according to their gender and age. Women may compete in men's classes.
- 1.2 Competitors aged 20 or younger belong to each class up to the end of the calendar year in which they reach the given age. They are entitled to compete in older classes up to and including 21.
- 1.3 Competitors aged 21 or older belong to each class from the beginning of the calendar year in which they reach the given age. They are entitled to compete in younger classes down to and including 21.
- 1.4 The main competition classes are called W21 and M21, for women and men respectively.
- 1.5 For competitors younger than 21, the classes W20 and M20, W18 and M18 and so on with intervals of 2 years are used. For older competitors, the classes W35 and M35, W40 and M40 and so on with intervals of 5 years are used.
- Each class may be divided into subclasses according to the difficulty and/or length of the courses. Subclasses according to difficulty and course lengths are named E (elite)—if applicable, A, B, C and N (novice). Subclasses according to course lengths only are named S (short) and L (long).
- 1.7 Elite (E) classes may only be provided for age classes 18, 20 and 21. They shall be restricted to competitors classified as elite competitors by their Federation or who are selected for the class based on their position in a Federation's ranking scheme.

#### 2. Parallel classes

2.1 Should a class have too many entries, it may be split into parallel classes. Splitting of elite classes should be based on the competitors' previous performances. Other classes than elite classes should be split so that competitors from the same club, district or Federation are equally distributed among the parallel classes.

# Appendix 2: Agenda for team officials' meeting

As much information as possible should be put in Bulletin 4, leaving the minimum of information to be transmitted verbally at the team officials' meeting.

#### 1. Opening

#### 2. Roll-call

• max two representatives per federation

#### 3. Presentation of officials

- Organizer's officials
- Jury members

#### 4. Time schedule

• If not according to program

#### 5. Transport to competition centre

#### 6. Competition centre (overhead transparency diagram)

- Parking
- Change facilities and showers
- Ski waxing and temperature info
- Gliding test
- Warming-up tracks
- Pre-start
- Prohibited areas

#### 7. Waxing facilities

- Rooms
- Electricity
- Ski profiles
- Tables

#### 8. Equipment controls in terrain

- Common or separate controls, W/M
- Kms of course length
- Team bags to be delivered: where, when

#### 9. Courses

- Length (straight line and shortest sensible route choice)
- Number of control
- Intermediate times (kms of course length)
- Total climb
- Estimated winning times
- Altitude above sea level
- Refreshment controls, (kms of course length)
- Forkings?

#### 10. Tracks

- Specifications of different tracks
- Kind of preparation
- Number of crossings per square km
- Latest preparation

• Track qualities, present situation

#### 11. Map Type

- Scale and contour interval
- Size, trimmed down
- Special symbols
- When are they returned?

#### 12. Control card

• Type to be used

#### 13. Start procedure (overhead transparency diagram)

- Start method
- Starting commands
- Taking maps, when?
- Distance time start to start point

#### 14. Loop and map change procedure (overhead transparency diagram)

- Marking of maps
- Handing in used maps
- Taking new map
- Refreshment and equipment service

#### 15. Finish procedure

#### 16. Weather forecast

- Weather lately
- Forecast for the competition time
- Wind
- Snow
- Temperature
- Sun

#### 17. Closing

## **Appendix 3: Approved punching systems**

[Competition Rule 20.1 states that 'Only IOF licensed electronic punching systems may be used'.]

- The only licensed control punching systems (January 2007) are:
  - the *Emit* Electronic Punching and Timing system
  - the *SportIdent* system
- Details of the currently licensed versions are shown on the IOF web pages
- The use of any other control punching system requires prior approval of the IOF Rules Commission.
- With respect to the *Emit* system, the label attached to the competitor's electronic control card for back-up marking must be such that it will survive the conditions likely to be encountered during a competition (including immersion in water). It is the competitor's responsibility to ensure that the back-up card is marked so that it can be used if the electronic punch is missing.
- With respect to the *SportIdent* system, a backup needle punch must be present at each control. It is the competitor's responsibility to ensure that the electronic punch is in the ecard by not removing the e-card until the feedback signal has been received. If, and only if, no feedback signal is received, the competitor must use the backup punch.
- The control card must clearly show that all controls have been visited. A competitor with a control punch missing or unidentifiable shall not be placed unless it can be established with certainty that the punch missing or unidentifiable is not the competitor's fault. In this exceptional circumstance, other evidence may be used to prove that the competitor visited the control, such as evidence from control officials or cameras or read-out from the control unit. In all other circumstances, such evidence is not acceptable and the competitor must be disqualified. In the case of *SportIdent*, this rule means that:
  - If one unit is not working, a competitor must use the backup provided and will be disqualified if no punch is recorded
  - If a competitor punches too fast and fails to receive the feedback signals, the card will not contain the punch and the competitor must be disqualified (even though the control unit may have recorded the competitor's card number).

# Appendix 4: Guidelines for Ski Orienteering mass-start events

Mass-start with forking consisting of three or four loops can be used for middle and long distance events. In women's classes, the use of two loops is also possible.

Each loop shall have at least one, preferably more, common control points, and part of the loop between those controls should be independently forked.

At the end of the race there should be an unforked part, which should not be more than 1/5 of the length of the whole course. This can be arranged by having a common last part of the third loop or a common shorter fourth loop. However the first part of the third loop should be forked. In women's classes there may be only two loops, but in that case there shall be at least three independently forked parts making minimum of 8 different course combinations.

In the case of poor snow conditions, the competition should be changed to an interval start if the minimum requirements for mass-start forking cannot be satisfied.

Different forkings should not differ significantly in length or height to improve intermediate time keeping and thereby increase the spectator-friendliness. Course combinations should be randomly allocated to the start numbers. In IOF major events runners from the same nation shall not have the same course from start to finish. This should be checked after the draw.

The start area should be wide. Starting rows should be arranged in a way that competitors in the same starting group are in the same row. At least the first controls should be planned to avoid bi-directional skiing in narrow tracks.

All controls should be wide with several punching units. The first and later common controls should be designed especially wide.

The starting procedure in all individual Mass Starts and all Relay Starts is uniform in all IOF Events. Competitors are positioned in rows. 2 minutes prior to the start the competitors are asked to place their left hand behind their back. Organisers will distribute a folded map to the competitor's left hand. 15 seconds before the start, the competitors are told that they are allowed to put their maps into the map holder. At the start signal, competitors can start skiing. It's the competitor's own responsibility to take the right map at a map change. The competitor who takes a wrong map shall be disqualified. For such situations the organiser shall have spare maps and list of course combinations to quickly provide correct loops to the competitors.

Starting from a minimum of 100 m before the finish, there should be at least two, preferably three, separate finish lanes. A competitor has finished when the top of the front ski shoe has passed the clearly marked finish line. The finish line should be video recorded, if possible, to decide any unclear cases. At least one jury member shall be at the finish.

Spectator-friendliness shall be an important objective. Common controls should be used as radio controls, from where the current standing should be reported to the speaker.

# **Appendix 5: Principles for course planning**

#### 1. Introduction

- 1.1. Purpose
- 1.2. Application of these principles

#### 2. Basic principles

- 2.1. Definition of ski orienteering
- 2.2. Aim of good course planning
- 2.3. Course planner's golden rules

#### 3. The ski orienteering course

- 3.1. Terrain
- 3.2. Definition of a ski orienteering course
- 3.3. The start
- 3.4. The course legs
- 3.5. The controls
- 3.6. The finish
- 3.7. The elements of map reading
- 3.8. Route choices
- 3.9. The degree of difficulty
- 3.10. Competition types
- 3.11. What the course planner should aim for

#### 4. The course planner

#### 1. Introduction

#### 1.1. Purpose

These principles aims to establish a common standard for the planning of ski orienteering courses in order to ensure fairness in competition and to safeguard the unique character of the sport of ski orienteering.

#### 1.2. Application of these principles

Courses in all international ski orienteering events must be planned in accordance with these principles.

#### 2. Basic principles

#### 2.1. Definition of ski orienteering

Ski orienteering is a sport in which competitors visit a number of points marked on the ground, controls, in the shortest possible time aided only by map and compass. Skiing and navigational skills shall be tested in such a way that a navigational skill is the decisive element. Parts may be completed on foot, in which case the competitor must carry appropriately-sized skis, sticks and shoes. Orienteering on skis may be characterised as skiing navigation.

#### 2.2. Aim of good course planning

The aim of course planning is to offer competitors courses correctly designed for their expected abilities. Results must reflect the competitors' technical and physical ability.

#### 2.3. Course planner's golden rules

The course planner must keep the following principles in mind:

- the unique character of ski orienteering as skiing navigation
- the fairness of the competition
- competitor enjoyment
- the protection of wildlife and the environment
- the needs of media and spectators

#### 2.3.1. Unique character

Every sport has its own character. The unique sport of ski orienteering is to find and follow the best route through the competition terrain against the clock. This demands ski orienteering skills: accurate map reading, route choice evaluation, compass handling, concentration under stress, quick decision making, skiing on different types of tracks, etc.

#### 2.3.2. Fairness

Fairness is a basic requirement in competitive sport. Unless the greatest care is taken at each step of course planning and course setting, luck can easily become significant in ski orienteering competitions. The course planner must consider all such factors to ensure that the contest is fair and that all competitors face the same conditions on every part of the course.

#### 2.3.3. Competitor enjoyment

The popularity of ski orienteering can only be enhanced if competitors are satisfied with the courses they are given. Careful course planning is therefore necessary to ensure that courses are appropriate in terms of length, physical and technical difficulty, control siting, etc. In this respect it is particularly important that each course is suitable for the competitor doing that course.

#### 2.3.4. Wildlife and the environment

The environment is sensitive: wildlife may be disturbed and the ground as well as the vegetation may suffer from overuse. The environment also includes people living in the competition area, walls, fences, cultivated land, buildings and other constructions, etc.

It is usually possible to find ways to avoid interference with the most sensitive areas without damage. Experience and research have shown that even large events can be organised in sensitive areas without permanent damage if the correct precautions are taken and the courses are well planned.

It is very important that the course planner ensures that there is access to the chosen terrain and that any sensitive areas are discovered in advance.

#### 2.3.5. Media and spectators

The need to give a good public image of the sport of ski orienteering should be a permanent concern for a course planner. The course planner should endeavour to offer spectators and the media the possibility to follow as closely as possible the progress of a competition without compromising sporting fairness.

#### 3. The ski orienteering course

#### 3.1. Terrain

The terrain must be chosen so that it can offer fair competition to all competitors. To safeguard the character of the sport, the terrain should be skiable and suitable for testing the ski orienteering skills of the competitors.

#### 3.2. Definition of a ski orienteering course

A ski orienteering course is defined by the start, the controls, and the finish. Between these points, which are given precise locations in the terrain and correspondingly on the map, are the course legs over which the competitor must orienteer.

#### 3.3. The start

The start should be so situated and organised that:

- there is a warm up area
- waiting competitors cannot see route choices made by those who have started

The point from which orienteering on the first leg begins is marked in the terrain by a control flag with no marking device and on the map by a triangle. The competitors should be faced with orienteering problems right from the start.

#### 3.4. The course legs

#### 3.4.1. Good legs

The course legs are the most important elements of a ski orienteering course and will largely determine its quality. Good legs offer competitors interesting map-reading problems and lead them through good terrain with possibilities for alternative individual routes.

Within the same course (depending of competition types, see also 3.10) different types of legs should be offered, some of them based on intense map-reading and others containing more easily skied route choices. There should also be variations with regard to length and difficulty to force the competitor to use a range of orienteering techniques and skiing speeds. The course planner should also endeavour to give changes in general direction for consecutive legs as this forces the competitors to reorient themselves frequently.

It is preferable for a course to have a few very good legs joined by short links designed to enhance the legs rather than a larger number of even but lesser quality legs.

#### 3.4.2. Fairness of legs

No leg should contain route choices giving any advantage or disadvantage which cannot be foreseen from the map by a competitor under competitive conditions. Legs which encourage competitors to cross forbidden or dangerous areas must be avoided.

#### 3.5. The controls

#### 3.5.1. Control sites

All controls must be situated on ski tracks or open prepared areas shown on the competition map. The exact placing of a control on the ground, and the point marked on the map, must be indisputable. The controls must be visited by the competitors in the given order, if the order is specified, but following their own route choices. This demands careful planning and checking to ensure fairness.

It is particularly important that the map portrays the ground accurately in the vicinity of the controls, and that the control is placed accurately along the track.

Controls, including refreshment points, map changes etc., must not be sited on steep and difficult downhills.

The tracks at the control sites shall be sufficiently wide for competitors to pass.

#### 3.5.2. The function of the controls

The main function of a control is to mark the beginning and end of an orienteering leg.

Sometimes controls with other specific purposes need to be used as, for example, to lead competitors around dangerous or out of bounds areas.

Controls can also serve as equipment, refreshment, media and spectator points.

#### 3.5.3. The control flag

The control equipment must be in accordance with the rules for IOF events.

#### 3.5.4. Fairness of control sites

Control flags should not be hidden.

It is necessary to choose control sites with great care and notably to avoid the effects where incoming competitors will block the track for the outgoing competitors.

#### 3.5.5. Proximity of controls

Controls on different courses placed too close to one another can mislead competitors who have navigated correctly to the control site. Controls on the same track (without overprinted track crossings between) shall not be sited within 100 m of each other. Further, only when the controls are sited distinctly different in the terrain as well as on the map, should controls be placed closer than 50 m.

#### 3.5.6. The control description

Control descriptions are not used in ski orienteering. All controls must be situated on tracks shown on the competition map. The exact placing of a control on the ground, and the point marked on the map, must be indisputable.

#### 3.6. The finish

At least the last part of the route to the finish line should be a compulsory marked route.

#### 3.7. The track system

The track system should be planned taking into consideration the following objectives:

- competition format
- terrain, especially height differences
- varying use of different skiing techniques
- the demands of course planning

Track preparation should be done taking into consideration the following objectives:

- fairness by giving equal conditions for all participants
- safety
- map-terrain accuracy especially with regard to track crossings

When preparing competition tracks and depicting the track system in the competition map, specific attention should be paid to the dashed line tracks. For elite orienteers, it is important for their route choices that they know whether it is possible to skate up-/downhills on a dashed line or not. The track standard requires that it is not possible to skate on a dashed line track in normal conditions. Therefore a dashed line track must be max. 1.2 m wide and must not be widened in uphill or downhill sections. If such widening is necessary for safety or other reasons, that part of the track must be depicted with a whole line on the map indicating clearly that the track is widened, wider than 1.2 m and the competitors can thus skate up the hills.

#### 3.8. The elements of map-reading

On a good ski orienteering course, competitors are forced to concentrate on navigation throughout the race. Sections requiring no map-reading or attention to navigation should be avoided unless they result from particularly good route choices.

#### 3.9. Route choices

Alternative routes force competitors to use the map to assess the terrain and to draw conclusions from it. Route choices make competitors think independently and will split up the field, thus minimising "following".

#### 3.10. The degree of difficulty

For any terrain and map, a course planner can plan courses with a wide range of difficulty. The degree of difficulty of the legs can be varied by making them follow line features more or less closely.

Competitors should be able to assess the degree of difficulty of the navigation and the skiing to a control from the information available on the map, and so choose the appropriate technique.

Attention should be paid to the competitors' expected skill, experience and ability to read or understand the fine details of the map. It is particularly important to get the level of difficulty right when planning courses for novices and children.

#### 3.11. Competition types

The different competition formats require different characteristics from the courses. To standardise the formats and thus give the competitors fair expectation of what the event would require of him/her, the course setter is required the follow the following guidelines and principles

#### a. Extra Long Distance:

- i. Winning times: 2.30-2.45 h for men; and 2.00-2.15 h for women. (Other classes 175 % of long distance times).
- ii. Recommended mass start with 3-6 loops with 1-3 forking controls on the loop; usage of butterfly loops allowed
- iii. The event and the course highlights (1) route choices, (2) physical endurance, and (3) ability to pace the event in the most economical way to maintain strength until the finish
- iv. Less dense track system, very long legs (5-6 km) between controls

#### b. Long distance:

- i. Winning times: 1.35-1.40 h for men; and 1.15-1.30 h for women
- ii. Individual start with 2 minute intervals, forking and different loops preferred. Several map changes and public controls at the start/finish area.
- iii. The event and the course highlights (1) route choices, (2) pacing of orienteering with route choices (fast skiing) and dense track systems with a lot of map reading, (3) physical endurance and ability to ski fast on ski orienteering tracks
- iv. A blend of long route choice legs (3-4 km) between controls and challenging map reading/orienteering on a dense track system areas (200-400 m between the controls)

#### c. Middle Distance:

- i. Winning times: 40-45 min for men and women. (Other classes: 50 % of long distance times)
- ii. Mass start with 3 loops with 1-3 forking controls on the loop; Several map changes and public controls at the start/finish area.
- iii. The event and the course highlights (1) map reading, (2) precise and smooth navigation on dense track systems, (3) ability to ski fast on ski orienteering tracks, (4) physical endurance.
- iv. The course has short (< 1 km; in average 350-400 m) legs between the controls and a very dense track system.

#### d. Sprint Distance:

- i. Winning times: 10-15 min for men and women. All other classes the same).
- ii. Individual start with 1 minute start intervals. No forking, but a preference to use public controls at the start and finish area.

- iii. The event and the course highlights (1) precise and smooth navigation on dense track systems, (2) high speed map reading), (3) high speed skiing on ski orienteering tracks, (4) route choices
- iv. The course has an even mix (50%/50%) of longer route choice legs and short legs in a very dense track system.

#### e. Relay:

- i. 3 legs leg winning time 30-35 minutes both men and women.
- ii. Mass start with 3 legs with 2-3 forking controls on the loop; preferably public controls at the start/finish area half way of the leg.
- iii. The event and the course highlights (1) map reading, (2) precise and smooth navigation on dense track systems, (3) ability to ski fast on ski orienteering tracks, (4) physical endurance.
- iv. The course has short (< 1 km; in average 350-400 m) legs between the controls and a very dense track system.
- v. Basically characteristics of a slightly shorter Middle Distance race.

#### f. Sprint Relay and Mixed Sprint Relay:

- i. Two competitors in a team. 6 legs (three legs per competitor) leg winning time 8-10 minutes both men and women. Mixed Sprint Relay one man and one woman in one team; no specific men's and women's legs. The team can decide whether to start with a man or with a woman. Change of order not allowed after start draw.
- ii. Mass start with 6 legs with 1-2 forking controls on the loop; Preferably public controls at the start/finish area half way of the leg.
- iii. The event and the course highlights (1) precise and smooth navigation on dense track systems, (2) high speed map reading), (3) high speed skiing on ski orienteering tracks, (4) route choices
- iv. The course has an even mix (50%/50%) of longer route choice legs and short legs in a very dense track system.
- v. Basically the characteristics of a slightly shorter Sprint race.
- 3.12. Course planning must account for specific requirements of the type of competition considered. For instance, course planning for sprint ski orienteering must call on detailed map reading and on a high degree of concentration at full speed throughout the entire course. Course planning for relays and mass-start events should incorporate a good and sufficient forking/splitting system (see Appendix 4: Guidelines for mass-start events). Course planning should consider the need for spectators and media to be able to follow closely the progress of the competition.

#### 3.13. What the course planner should aim for

#### 3.13.1. Know the terrain

The course planner should be fully acquainted with the terrain before he or she plans to use any control or leg. The planner should also be aware that on the day of the competition the conditions regarding map and terrain could be different from those which exist at the time the courses are planned.

#### 3.13.2. Get the degree of difficulty right

It is very easy to make courses for novices and children too difficult. The course planner should be careful not to estimate the difficulty just on his or her own skill at navigating or on his or her skiing speed when surveying the area.

#### 3.13.3. Use of fair control sites

The desire to make the best possible legs often leads a planner to use unsuitable control sites. Competitors seldom notice any difference between a good and superb leg, but they will immediately notice if a control leads to unpredictable loss of time due to a hidden control site or flag, ambiguity, etc.

#### 3.13.4. Placing controls sufficiently apart

Even though the controls have code numbers they should not be so close to each other as to mislead competitors who navigate correctly to the control site on their course.

#### 3.13.5. Avoid over-complicating the route choices

The planner may see route choices which will never be taken and thereby may waste time by constructing intricate problems, whereas the competitors may take a "next best" route, thus saving time on route planning.

#### 3.13.6. Courses that are too physically demanding

Courses should be set so that normally fit competitors can ski over most of the course set for their level of ability. The total climb of a course should normally not exceed 4% of the length of the shortest sensible route. The physical difficulty of courses should progressively decrease as the age of the competitors increases in Masters classes. Special care must be taken that for classes M70 and over and W65 and over, the skiing is not too technically or physically demanding.

#### 4. The course planner

The person responsible for course planning must have an understanding and appreciation of the qualities of a good course gained from personal experience. He or she must also be familiar with the theory of course planning and appreciate the special requirements of different classes and different types of competitions.

The course planner must be able to assess, on site, the various factors which can affect the competition, such as the conditions of the terrain, the quality of the map, the presence of participants and spectators, etc.

The course planner is responsible for the courses and the running of the competition between the start and the finish line. The course planners' work must be checked by the controller. This is essential because of the numerous opportunities for error which could have serious consequences.

# Appendix 6: IOF resolution on good environmental practice

At its meeting on 12/14 April 1996, the Council of the International Orienteering Federation, acknowledging the importance of maintaining the environmentally friendly nature of orienteering, and in accordance with the GAISF Resolution on the Environment of 26 October 1995, adopted the following principles:

- to continue to be aware of the need to preserve a healthy environment and to integrate this principle into the fundamental conduct of orienteering
- to ensure that the rules of competition and best practice in the organisation of events are consistent with the principle of respect for the environment and the protection of flora and fauna
- to co-operate with landowners, government authorities and environmental organisations so that best practice may be defined
- to take particular care to observe local regulations for environmental protection, to maintain the litter-free nature of orienteering and to take proper measures to avoid pollution
- to include environmental good practice in the education and training of orienteers and officials
- to heighten the national Federations' awareness of worldwide environmental problems so that they may adopt, apply and popularise principles to safeguard orienteering's sensitive use of the countryside
- to recommend that the national Federations prepare environmental good practice guidelines specific to their own countries

# **Appendix 7: The Leibnitz Convention**

We, the Members of the IOF, attending the 20th IOF General Assembly in Leibnitz, Austria, on the 4 August 2000, hereby declare that

"It is of decisive importance to raise the profile of the sport to further the spread of orienteering to more people and new areas, and to get orienteering into the Olympic Games. The main vehicles to achieve this are:

- to organise attractive and exciting orienteering events which are of high quality for competitors, officials, media, spectators, sponsors, and external partners
- to make IOF events attractive for TV and Internet

#### We shall aim to:

- increase the visibility of our sport by organising our events closer to where people are
- make our event centres more attractive by giving increased attention to the design and quality of installations
- improve the event centre atmosphere, and the excitement, by having both start and finish at the centre
- increase television and other media coverage by ensuring that our events provide more and better opportunities for producing thrilling sports programmes
- improve media service by better catering for the needs of media representatives (in terms of communication facilities, access to runners at start/finish and in the forest, continuous intermediate time information, food and beverages, etc)
- pay more attention to promoting our sponsors and external partners in connection with our IOF events

We, the Members of the IOF, expect that these measures shall be considered by all future organisers of IOF events."

# Appendix 8: Guidelines for use of terrain for Major IOF Ski Orienteering Events

- 1. The proposed competition area, including the reserve area, shall normally be embargoed immediately after the organiser has appointed. If that is not possible, then arrangements for access to the terrain must be published as soon as possible. Information on embargoed areas shall be given in the bulletins and also be available on Internet via the IOF web site.
- 2. Areas can be embargoed only for orienteering activity, i.e. allowing the use of permanent tracks without a map. However, after the preparation of the small track system for the race, the competition area shall be fully embargoed.
- 3. In parallel, a colour copy of the most recent orienteering and / or ski orienteering map shall be sent to all relevant Ski Orienteering Federations. Copies shall also be sent to the IOF Secretariat, see § 8.3 and 8.4. The most recent map(s) should also be available on Internet on the web site of the Organiser.
- 4. When embargoed areas have been announced, it is forbidden for all potential competitors, trainers, team leader etc to visit these areas, unless permission is specifically given by the organiser and the IOF Event Adviser.
- 5. The objective of the embargoing of a competition area is to limit the advantage any competitor with local knowledge on the terrain and the map might have. An effort shall be made to give all competitors as equal conditions as possible, at the same time as meeting the modern ski orienteering event objectives for easily accessible areas close to town centres, use of established ski arenas, spectator and media friendly events etc.
- 6. Track and course setting shall be made in a way such that the advantage any local competitor might have will become marginal.
- 7. In this context, the organiser should, if deemed appropriate by the organiser and the IOF Event Adviser, organise training possibilities / "a survey trip" in the competition terrain one year prior to the event (winter, with main tracks). If deemed relevant for WOC, training possibilities / "survey trip" shall be arranged in conjunction with WCup / Pre-WOC one year before WOC.
- 8. Violation of the Rules / Guidelines to gain advantage (e.g. unauthorised training, surveying) of the terrain, knowledge of the maps, courses etc, beyond what is provided to all competitors, is forbidden and shall lead to barring from the event.
- 9. The organiser shall bar from the competitions a competitor who, despite the guidelines given above, is deemed to have a substantial advantage over other competitors. Such cases shall be discussed and decided after consultation with the IOF Event Adviser.

# Significant changes to the previous version (December 2009)

- 3.2 WOC Addition of Sprint Relay
- 6.7a WOC New rule for Sprint Relay
- 16.9 WOC Winning times added for Sprint Relay