

SPECIAL RULES FOR IOF SKI-O WORLD RANKING EVENTS FOR THE SEASON 2008/2009

POINT CALCULATION SUMMARY:

- A competitor's points in each event are calculated based on his/her performance in the race and "the strength of the field" of the competition. In Ski-O Tour events all points are raised by 3 %. In World Championship final events all points are raised by 5%.
- Before 1st competition in Ski-O Tour (January 10th) the overall points are calculated as the average of 3 best points, where the season 2007/08's final points are used as one 'base points' (as one competition)
- After 1st competition in Ski-O Tour (January 10th) until the end of the season the overall points are calculated as average of 5 best points, and season 2007/08's final points are still used as one 'base points' (as one competition)
- The final overall points of the season are calculated as the average of a competitor's 5 best points, and the season 2007/08's final points are no longer included
- If a competitor has competed in fewer than 3/5 competitions, averages are reduced by 4% for each missing competition"

EVENT ALLOCATION (see also Item 1 in "POINT CALCULATION DETAILS"):

- Federations hosting Ski-O Tour:
 - o Two events in Ski-O Tour
 - o Two other events
- All other IOF full member Federations: three events
- World Championship final events are WREs outside the hosting federation's allocation.
- If a WRE is postponed to the later dates of same season, the WRE status will remain without need for a new application. However in such cases, and in the case of total cancellation, a Federation can apply for the WRE status to be moved to some other (future) event. If a Federation hosting Ski-O Tour has to cancel one or both of its Ski-O Tour events, they can be replaced so that total number of Federation's WREs is maximum 3. WRE status cannot be applied for the event retrospectively, i.e. after the event has been held. All changes must be forwarded to the IOF Secretariat (anna.zeelig.iof@orienteering.org) immediately.

If a World Cup event is cancelled, its WRE status cannot be transferred to another event.

POINT CALCULATION DETAILS:

1 Which events are World Ranking Events?

- 1.1 IOF Ranking Events are chosen by the Federations, each of which is allocated a certain number of events by the Ski-O Commission. WREs must follow the criteria below:
- they shall be Open events
 - mass start event with the same course from start to finish cannot count
 - relay races for teams cannot count
 - multi-days events: only individual races shall be chosen for Ranking Events (no chasing start), overall times or overall points cannot be used
 - in order to facilitate point calculations, **official** event results should be available electronically the next day on the Internet
 - changes of event dates and possible cancellations should be informed immediately to the IOF World Ranking host/Secretariat.

Any deviations from these criteria must be approved by the Ski-O Commission (**via the IOF Secretariat**).

- 1.2 All World Cup individual races (Sprint, Middle and Long distance) count towards the World Ranking lists. However, only the Finals (i.e. not qualification races) count. Where there are A and B Finals (or even C Finals) each race is scored as a standalone race with respect to point calculations unless they are run over the same course.
- 1.3 World Championship individual (Sprint, Middle and Long) races (both Finals and Qualification races) count towards the World Ranking lists.

2 The formulas used in Ski-O World Ranking

- 2.1 The formula to be used for ranking takes into account
- a) strength of field at each event,
 - b) status of the event, and
 - c) differing spreads of times at different events is given by:

$$RP = (MP + SP \times (MT - RT) / ST) \times IP$$

where the number of **ranked skiers** (see 2.3 below) is 20 or more.

- 2.2 There must be at least 4 **ranked skiers** in order for a race to qualify for the World Ranking scheme.
- 2.3 A **ranked skier** is defined as one whose average World Ranking race points score from all the **current and previous season's** races is greater than or equal to 600 and who finishes within the winner's time plus 50%.
- 2.4 Calculate for each **ranked skier** the average of all his/her unweighted (i.e. for IP = 1.00) points scores from the **current and previous season**. Then calculate the mean *MP* and the standard

deviation SP of these averages.

- 2.5 Calculate the mean MT and the standard deviation ST of the times of all **ranked skiers**.
- 2.6 Using RT , each skier's race time, finally calculate RP , the race points for each competitor at the event.
- 2.7 If the number of **ranked skiers** n is small ($n < 10$), SP can't be evaluated reliably enough and the formula in 2.1 must be replaced by the following:

$$RP = (2600 - RT \times (2600 - MP)/MT) \times IP$$

- 2.8 If the number of **ranked skiers** is such that $10 < n < 20$ each skier's points is given by a weighted average of the large events points (RP_L , as calculated by 2.1) and the small events points (RP_S , as calculated by 2.7) as follows:

$$RP = RP_L \times (n - 10)/10 + RP_S \times (20 - n)/10$$

- 2.9 If RP is negative, these points are ignored and they won't be included in any calculation of overall score, MP/SP /ranked skier status or re-basing in the end of the year.
- 2.10 IP is a factor which depends on the status of the event. It would normally equal 1.00. For WOC Sprint, Short, Middle and Long Final races, IP is raised to 1.05. For individual World Cup (final) and Ski-O Tour event, IP is raised to 1.03.

2.11a BEFORE 10th January 2009 the overall score of each skier will be the highest of the following:

- The average of 3 best points that season
- The average of 2 best points that season reduced by 4%
- The best points that season reduced by 8%

2.11b AFTER 10th January 2009 the overall score of each skier will be the highest of the following:

- The average of 5 best points that season
- The average of 4 best points that season reduced by 4%
- The average of 3 best points that season reduced by 8%
- The average of 2 best points that season reduced by 12%
- The best points that season reduced by 16%

- 2.12 During a season, the previous season's final overall points are counted for each skier as one 'base' competition. These base points will be removed after the season's last WR race. These base points are not included in the calculation of MP/SP /ranked skier status or re-basing at the end of the year.

- 2.13 There should be separate lists for men and women based on performances in Open, or M/W21E

races only.

- 2.14 At the end of the season, both groups of skiers (i.e. both men and women) shall have all *RPs* re-based so that their average points have an overall mean of 1000 and standard deviation of 200. Re-basing is made using the formula

re-based $RP = (RP - MRP)/SRP * 200 + 1000$, where *MRP* is the mean and *SRP* is the standard deviation of all race points.

(No negative *RPs* are included in re-basing)

- 2.15 All *RPs* and total score averages are rounded down to the nearest whole number.
- 2.16 If the race doesn't have enough ranked skiers, but still has at least four skiers within winner's time + 50%, the points will be awarded with $MP = 700$ and $SP = 100$. However maximum points for that kind of competition are 1000.
- 2.17 Races, where rule 2.16 is applied, are excluded from calculation of *MP/SPs*.

3 The task which is fulfilled by the IOF World Ranking hosts for the IOF comprises several sections:

- 3.1 Collection of IOF World Ranking Events data from all M/W21E races. It is essential that all results are available electronically and that good contact between each organiser and the IOF World Ranking hosts is developed.
- 3.2 Immediate publication of World Ranking lists on the Internet.

World Ranking List is hosted by Ray Barnes / VIProgrammers, e-mail: wr_results@6prog.org