

This documents contains the important changes for the Cableski Technical Rules 2009. What is not included is one change which concerns several places in the rules, but is only a name change to be consistent with the new IWSF structure. Everything referring to « Region » has been changed to « Confederation ».

Deletions are ~~strikethrough~~, additions are underlined.

Cableski Technical Rules

Rule 11.12 Jump distance measuring

There are ~~two~~ three approved jump measuring systems:

- ~~The Johnson system.~~
- The Böttcher Video measurement system.
- The Corson Video measurement system.

All systems must be checked and approved by the Homologator after installation.

Also other system can be used if checked and approved by the Homologator.

~~Rule 11.13 Description of the Johnson system~~

~~When using the Johnson system the jump distances are measured by a system of meters measuring the subtended angles provided by 3 meter stations, each consisting of two meters.~~

~~To insure accuracy, it is recommended that each meter station be no more than 70 m from the point of landing.~~

~~Jump distances are to be calculated through the use of a computer. Any computer program used for this purpose must be verified by passing the benchmark tests included in this rules. The ramp setup must give proper triangles as described in the benchmark.~~

~~The point of landing is defined as the center of the inscribed circle which is tangent to all three sides of the triangle formed by the three average sightings from the meter stations. The distance is calculated from the landing point back to the ramp. The size of the triangle is defined as the diameter of that inscribed circle.~~

~~If the top and bottom sightings from any single meter station are more than 0,6 m apart at the point of landing, then the average value and the single sighting with the smaller value will each be tried in turn, and whichever of these produces the smaller triangle will be used to derive the official distance.~~

~~If the official resolution of a particular set of sightings, according to the above rules, produces an official wide triangle, and that set of sightings included a spread in excess of the 0,6 m test limit AT ONLY ONE of the meter stations, which yielded the smaller triangle size by using the average rather than the shorter reading alone, then the longer reading from that station may be tried alone, and used as official, if it eliminates the wide triangle.~~

~~On a given jump when the diameter of the inscribed circle obtained by the angular measuring system is greater than 0,6 m, the skier will have the option to either take the jump over again or accept the shortest distance measured from a corner of the triangle provided that on any of his preceding or following jumps, the measured distance does not exceed the distance to the furthest corner of the large triangle. In the case where one of the preceding or following jumps does exceed the distance to the furthest corner, the official score of the wide triangle jump will be the shortest vertex.~~

~~In the case where a competitor decides to take the jump over again, the competitor's distance on the reride may not exceed the distance measured to the furthest corner of the large triangle of the disputed jump but will not be less than the distance measured to the nearest corner of the large triangle of the disputed jump. Multiple rerides are to be resolved sequentially in the order in which they occurred.~~

~~Jump distances shall be measured from a point at the water line directly below the center of the top edge of the ramp to the point where the heels of the skier reach their maximum depression in the water (as normally indicated by the „spout“ of water rising after the skier's landing).~~

Rule 11.14 Use of a video jump measurement system

If video jump measurement is used, the distance shall be measured to the skier's point of impact in

the water closest to the ramp (first point of impact) and then an adjustment offset of 2,1 m shall be added.

For the video system, there shall be two designated officials who shall jointly agree on the impact point. These officials can also be event judges if they have a full and direct view of the jump course. The calculated distance shall not be displayed until the impact point is decided upon.

Videotaping or a ~~Johnson system~~ hard disk recording shall be used as backup.

Rule 12.19 Slalom towers

The slalom judging towers shall be braced structures having a platform with railing approximately 2 - 3 m above the water surface. They may either rest on the bottom or be securely anchored in position. The slalom judging towers should be positioned to provide the best possible view over the entire slalom course. It is **not** recommended to use the ramp as a slalom tower.

Rule 13.12 Use of the video camera

The tricks shall be filmed by a video camera from a position as close as possible to the position of the Event Judges. As an alternative it is possible to position the camera at the end of the trick course, facing the skier. If more than one video camera is used, the Chief Judges shall declare one as official prior to the event.

Immediate video review shall consist of ONE immediate replay of the pass at normal speed to allow the Event Judges to check what they have written. Then the sheets are handed in. The video film may only be shown additionally as an aid to the Event Judges under the following circumstances:

- a) At the request of the Chief Judge or the Chief Calculator, if it is not possible for the Calculators to obtain a majority decision as to the trick or tricks performed.
- b) At the request of the Chief Judge or the Chief Calculator, if it is not possible for the Calculators to obtain a majority decision as to whether or not credit is to be given for a trick.
- c) In circumstances which the Chief Judge regards as exceptional. This request should not be granted if the intention is to change a Judge's decision under Rule 13.9.
- d) At the request of the Chief Judge, or a Judge or a Calculator (and approved by the Chief Judge) the video may be reviewed to establish credit or no credit of a trick or tricks provided it is stated which trick(s) they wish to review. It is not the intention to review the entire run.

The video will only be shown at normal speed.

The audio of the video camera recorder shall pick up the sound of the audible signal, which indicates the end of the 20 seconds.

Rule 13.13 Credit for tricks

The skier shall receive credit for up to the 14 highest scored tricks in each pass.

To receive credit for any trick the skier must remain in or return to skiing position.

Only tricks listed in the rules will be scored in a competition.

A skier shall receive credit for a trick performance only if it is performed in the order as declared on his trick list (see Rule 13.15). Tricks performed not listed or performed in a different order than on the trick list score zero. The order shall not be regarded as broken for the failure to perform a listed trick, the failure of the judges to give credit for a trick performed, or the performance of one or more tricks not listed before resuming the listed sequence. The skier may choose which pass he wishes to perform first.

If a skier falls on his first pass, he may choose to repeat it as his second pass. He may also continue from where he fell and progress into the second pass. The two listed passes shall be considered as one continuous list for scoring purposes and must progress in that order for proper scoring.

Rule 15.2. Homologation Levels

| | World Record (RC) | Ranking List (RkL) | Normal (NOR) |
|--|-------------------|--------------------|--------------|
| Prior Announcement of Homologation Level to Skiers | Yes | Yes | Yes |
| Prior Notification of Homologation Level to | Yes | No | No |

List of Changes – Cableski Technical Rules 2009 / Cableski Additional Rules 2009

| | World Record (RC) | Ranking List (RkL) | Normal (NOR) |
|---------------------------|--|--|---|
| Regional Cableski Council | | | |
| Region Approved Panel | Yes | No | No |
| Max. Number of Rounds | 4 | 4 | 4 |
| Chief Judge | 1 st Class | 1 st Class | 2 nd Class |
| Homologator | International | International | National |
| Technical Officer | International | National | National |
| Duplication | None | Max. 2 functions, except Trick Event Judge may not be Calculator in Trick events | Max. 2 functions |
| Direct drive | Mandatory | Mandatory | - |
| Jump | | | |
| Course Check | Survey by theodolite | Survey by theodolite | Survey by theodolite |
| Tolerances | Per Rule Book | Per Rule Book | Per Rule Book |
| Video Measurement | Mandatory | Mandatory | Optional |
| Timing | Automatic | Automatic | Manual |
| Calculator | International | National | National |
| Judges | 3 x 1 st Class | 1 x 1 st Class / 2 x 2 nd Class minimum ⁽¹⁾ | 3 rd Class minimum |
| Slalom | | | |
| Course Check | Survey by theodolite | Survey by theodolite | Survey by theodolite |
| Tolerances | Per Rule Book | Per Rule Book | Per Rule Book |
| Middlebuoys | Required | Optional | Optional |
| Buoys | Measured | Visual check | Visual check |
| Timing | Automatic | Automatic | Manual |
| Judging towers | Both sides | Both sides or one side ⁽²⁾ or one side + video ⁽³⁾ | One side |
| Calculator | International | National | National |
| Judges | 5 x 1 st Class or 3 x 1 st Class / 2 x 2 nd Class minimum | 1 x 1 st Class / 3 x 2 nd Class / 1 x 3 rd Class or 3 x 1 st Class / 2 x 3 rd Class minimum ⁽⁴⁾ or 1 x 1 st Class / 2 x 2 nd Class minimum + video ⁽⁵⁾ ⁽³⁾ | 5 x 3 rd Class minimum or 3 x 3 rd Class minimum + video ⁽³⁾ |

¹2 Judges must be Cableski Judges, the other may be an International Tournament Judge.

²Both sides are preferable, however if technically not feasible two towers on one side can be accepted.

³Video means an end course / gate video from which the 6th buoy and the end gate can be seen. The judges must be able to see the video stream live on the judges tower. In this case one tower is acceptable in the region of buoy nbr. 3.

⁴If 5 Judges are used, 2 Judges must be Cableski Judges with 1 x 1st class and 1 x 2nd class minimum, the other 3 may be International Tournament Judges.

⁵2 Judges must be Cableski Judges, the other may be an International Tournament Judge.

| | World Record (RC) | Ranking List (RkL) | Normal (NOR) |
|---------------|--|--|---|
| Tricks | | | |
| Course Check | Visual | Visual | Visual |
| Tolerances | Per Rule Book | Per Rule Book | Per Rule Book |
| Timing | Automatic (until 2008) —Video timing (from 2009) | Automatic (until 2008) Video timing (from 2009) | Manual (until 2008) Automatic (from 2009) |
| Video | Yes | Yes | No |
| Calculator | International | International | National |
| Judges | 5 x 1 st Class + immediate video review (from 2009) | 1 x 1 st Class / 3 x 2 nd Class / 1 x 3 rd Class minimum + immediate video review (from 2009) | 5 x 3 rd Class minimum or 1 x 1 st Class / 2 x 3 rd Class minimum + immediate video review |

Rule 15.4. Jump

In case of the use of the Johnson system:

- ~~Protractors should be in degrees with a gradation of 0,2 degrees. Minimum radius of the protractor shall be 25 cm.~~
- ~~The maximum difference of readings between top and bottom stations on a fixed sighting point (on land) shall not exceed 0,1 degree. This is to be checked at several points through the range and include the other stations.~~
- ~~Angles may be called in to 0,1 degree of accuracy.~~
- ~~A recommended check is to sight the 6th slalom buoy for a small triangle and check against actual distance.~~

~~In case of For~~ the use of a video jump system the required coordinates (camera, jump ramp, buoys) shall be calculated by the survey of the Homologator.

Region EAME Cableski Additional Rules

Rule 3.3 Team Selection

Each team for the Region Confederation EAME Cableski Juniors under 15 Championships shall consist of a maximum of ~~5~~ 6 qualified skiers, with the further limitation that no team may have more than ~~3~~ 4 boys or ~~3~~ 4 girls.

Each team for the Region Confederation EAME Cableski Juniors under 19 Championships shall consist of a maximum of ~~5~~ 6 qualified skiers, with the further limitation that no team may have more than ~~3~~ 4 boys or ~~3~~ 4 girls.

Each federation shall furthermore have the right to nominate two reserve skiers to each of its teams, to replace an injured skier, provided the maximum of ~~3~~ 4 boys or ~~3~~ 4 girls is not exceeded.

Each federation with no qualified skier for a team in the Region Confederation EAME Cableski Juniors under 15 Championships shall be entitled to enter one skier in the Region Confederation EAME Cableski Juniors under 15 Championships. Each federation with no qualified skier for a team in the Region Confederation EAME Cableski Juniors under 19 Championships shall be entitled to enter one skier in the Region Confederation EAME Cableski Juniors under 19 Championships. Such a skier may compete in all three events.

The federation organizing the Region Confederation EAME Cableski Juniors Championships shall be entitled to a full team of ~~5~~ 6 skiers for the Region Confederation EAME Cableski Juniors under 15 Championships and a full team of ~~5~~ 6 skiers for the Region Confederation EAME Cableski Juniors under 19 Championships, whether qualified or not.

Rule 18 Harry de Laat Memorial Trophy

Rule 18.1 Purpose

To remember Harry de Laat an annual challenge cup shall be presented.

Rule 18.2 Consignee

The Harry de Laat Memorial Trophy shall be rewarded to the best (based on overall score) participating skier in the Juniors under 15 category of the Confederation EAME Junior Championships.

Rule 18.3 Presentation

The trophy shall be presented to the skier at the prize giving ceremony of the Confederation EAME Junior Championships and with the engraving at the annual Confederation EAME congress to the skier or the representative of his federation. The federation of the skier shall be responsible to bring the trophy to the next Confederation EAME Junior Championships.

Rule 18.4 Duration

The trophy is limited to run for 12 years. As the first trophy was presented in 2007, this rule shall be removed after 2018. After that time the trophy shall be presented to the IWSF Hall of Fame.

Rule 19 Homologator's Checklist

| No. | Task | Complete |
|-----|--|----------|
| 1 | <u>Survey all buoys and the jump for the slalom, jump, and trick courses and adjust as necessary to meet the tolerances of Diagram 5, Diagram 8, Diagram 10. The tolerances in terms of centimeters are displayed on Emmanuel Lion's cable ski survey program. Homologators must take care to measure the lower cable of the wheels at the exact point the cable is tangential to the pulley axis.</u> | |
| 2 | <u>Measure height of the lower cable above the water at the towers each end and in the middle under 70 kgs load as shown in Diagram 1.</u> | |
| 3 | <u>From the homologation computer program, provide the technical official with speed times.</u> | |
| 4 | <u>Measure and adjust the lines from the ball furthest from the handle to the middle of the handle according to Diagram 3 and Diagram 4. Lines must be pre-stretched. Do not accept lines longer than the nominal length, because the tolerance may be exceeded when stretched during the tournament.</u> | |
| 5 | <u>Measure the jump at all heights to be used according to Rule 11.4 and enter the dimensions on the electronic dossier.</u> | |
| 6 | <u>Check the colours and sizes of the buoys according to Rule 12.4.</u> | |
| 7 | <u>Inspect the speed indication system and check the times by stopwatch.</u> | |
| 8 | <u>Check the judges positions for trick and slalom and end gate video if used. Rule 12.9, Rule 12.10., Diagram 8.</u> | |
| 9 | <u>Check the operation and timing of the semi automatic trick timing device or video trick timing device.</u> | |
| 10 | <u>Install and survey all buoys and camera positions, if required, to be used for jump measurement. Either Boettcher or Corson systems are acceptable but in either case there must be a check buoy separate from the calibration buoys, installed and surveyed. Care should be taken that buoy anchor lines are sufficiently tight to prevent movement of the buoys from their surveyed position by the effect of wind or wash.</u> | |
| 11 | <u>Confirm that there are sufficient radios for all officials and arrangement for re-charging.</u> | |
| 12 | <u>Confirm the officials or assistants responsible for video recording trick and slalom (if end gate video used), that the equipment is operating, spare batteries are available and the officials or assistants are trained and understand their duties.</u> | |
| 13 | <u>Confirm officials or assistants responsible for timing slalom and jump, their training, viewpoint stopwatches and communication are adequate. Rule 9.3 and Rule 9.4.</u> | |
| 14 | <u>Complete with own and Chief Judge's signatures the "Homologation Notice" from the survey program, then print and display for competitor's information.</u> | |
| 15 | <u>During trick events be prepared to measure trick ski dimensions, Rule 8.2.</u> | |
| 16 | <u>Complete the electronic dossier in the Emmanuel Lion survey program.</u> | |

List of Changes – Cableski Technical Rules 2009 / Cableski Additional Rules 2009

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|-----------|---|--|
| <u>17</u> | <u>Collect the video jump results electronic files when complete.</u> | |
| <u>18</u> | <u>Collect the completed results from the calculator in all available electronic formats.</u> | |
| <u>19</u> | <u>Email all result files, the homologation file, and jump results files to Jost de Leijer <j.leijer@planet.nl></u> | |
| <u>20</u> | <u>Retain for 1 year and paper start lists, surveyes and electronic files for reference in case of an query.</u> | |