



Minutes of the World Waterski Council Meeting held via Zoom on February 9, 2026

Present:

| | | |
|--------------------|----|-----------------------------|
| Candido Moz | CM | WWSC Chair |
| Dana Garcia | DG | Pan Am WSC President |
| Larry Gisler | LG | Pan Am Delegate |
| Segio Font | SF | Pan Am Delegate |
| Bruce Coburn | BC | AAO WSC President |
| Glen Williams | GW | AAO Delegate |
| Geoffrey Kee | NT | AAO Delegate |
| Aristotelis Balais | AB | E&A Delegate (new) |
| Martin Kolman | MK | Athletes Representative |
| Valentina Gonzales | VG | Athletes Representative |
| Archie Davis | AD | Athletes Representative |
| Will Bush | WB | Tech Committee Chairman |
| Gavin Kelly | GK | Invited (past E&A Delegate) |
| Dimos Alexopoulos | DA | Invited (past E&A Delegate) |

CM welcomes Aristotelis Balais as the new E&A Representative, elected on February 7. The other new E&A member, Morten Froulund, could not attend this meeting. CM has invited GK and DA, as they resigned from their positions but have followed all rule changes and proposals up to now. CM thanks them for their work, their personal friendship, and their full support over the past year.

Agenda:

Officials nomination for Over-35 worlds – February 15 deadline

WSC rep. into EB.

Post-event Judging

- 1) Slalom
- 2) Tricks
- 3) Jump
- 4) Entry Fee, payments etc.
- 5) Ranking May, November or
- 6) Record review Panel (propose to have the same number of Officials to review a record)
- 7) Data Storage
- 8) Driver conflict of Interest
- 9) AOB.

Officials nomination for Over-35 worlds – February 15 deadline

As of today, only a few Officials have put their names forward for attending the 2026 Over-35 Worlds. CM proposes to postpone the final decision until the end of February.

Agreed

WSC representation into the Executive Board:

CM has officially requested that the BURO allow two WSC members to attend the EB meeting. Even if two members are present, WSC would still have only one vote. The response received was that, according to the rules, this is not possible, as each Council may have only one representative on the EB. WSC believes that, as Waterski represents the largest part of the IWWF, it should have greater representation, and a formal request will be submitted to reflect this position.

DG has put his name forward to be nominated as the WSC representative on the EB.

CM explained that the existing rules do not specify who may be proposed to represent a Council; therefore, anyone may put their name forward. Normally, the President serves in this role, but this does not preclude another person from being nominated.

DG also clarified that his request is not made in opposition to CM's work, but solely to ensure more direct contact within the PANAM region regarding EB decisions and projects.

After a brief discussion, and considering that we do not yet have the possibility to conduct a proper vote, the WSC confirms CM as representative until such vote can take place, and appoints DG as Alternate.

Post-event Judging

BC explained that they had a competition where, due to the fact that not enough Judges were available for the tricks event on that specific weekend, they recorded the passes and judged them a few days later.

The rule reference is:

9.18: Use of the Video Camera

The tricks shall be filmed by a video camera from the boat. The usual procedure will be to transmit the signal by radio to the Judge's Tower and the intention is to judge in real time. Backup video will be a stored copy of the video at the camera. Other than as stated in (9.12), the video film may only be shown as an aid to the Event Judges under the following circumstances:

As in many cases live video is not available, the use of memory cards has been allowed. However, WSC believes that recording an event and judging it several days later should not be permitted and is not in the spirit of the rules.

CM will propose wording to be added to the Rulebook.

Rule changes (1-Slalom, 2-Tricks, 3-Jump, 4-Entry Fee, 5-Ranking, 6-Records and Homologation)

Please refer to the attachment for the complete list of rule changes.

Slalom

DA noted that in the Lion scoring program it is currently impossible to enter a short rope unless the skier is at maximum speed. For example, in a division where the shortening begins at 58 km/h, it is not possible to enter a skier at 52/14.25.

CM will contact Manu to verify whether this can be addressed in a future software update.

The proposal to reduce the single-buoy tolerance for RC events to 20 cm was discussed and deferred to a future meeting, when all relevant data will be available. WB will compile the required data.

Tricks

CM proposes to implement the new Tricks Point values as of November 1st. The initial plan was to introduce the rule amendments at the same time; however, the work is not yet at a stage that allows this.

CM considers that the finalization of the revised rule wording will require further time and is unlikely to be completed in the short term. Should the amendments be ready within the necessary timeframe, they may also be applied from November 1st, alongside the new Tricks Point values.

It is also acknowledged that additional trick values may warrant review, although it is clear to all that this is a complex, long-term process that cannot be completed rapidly.

Ranking:

As the specific-date Ranking List is available only to EMS administrators and not to the public, it was proposed to publish it within the Event Documents as soon as it becomes available.

7. Data Storage

IWWF is moving to the Microsoft Teams platform, which provides ample space to store all data (Bob site, etc.). Morten Froulund is our technical contact and will take on this responsibility.

Naturally, priorities for access will need to be defined, including who can view what.

8. Driver Conflict of Interest

Some of our best Drivers have a conflict of interest at many events, as relatives ski in one or both genders. Even with the use of new technology, we understand that in skiers' minds having a Driver who is related to some of the competitors may still be perceived as a problem.

Amending the rules, while being aware that the full range of technology is normally available only at the most important events, represents a challenge.

CM believes that if, at an event, a Driver with a conflict of interest is present but all participants agree to have that Driver operate the boat, this may be acceptable, but only if they all agreed.

9. AOB

LG has reviewed the current List of Obligations for Titled Events over the past month and noted that some of the requirements appear obsolete or no longer applicable. WSC agrees that the List of Obligations for Titled Events should be updated to reflect today's standards. DG will examine the document and prepare a revised version to be reviewed by the WSC; once finalized, the WSC will submit it to the BUR0.

Rule changes summary - update February 9th 2026

1.16: Post event Judging.

Post-competition judging is contrary to the spirit and intent of these Rules and shall not be permitted. However, specific portions of an event may be recorded on a memory card (or similar device) solely for immediate review and judging as part of the same judging process.

The recording of any competition, in whole or in part, for deferred judging on a subsequent day or days is not permitted.

5.04: Zero Off Approved Software

**ZERO OFF APPROVED SOFTWARE
USA WATERSKI
(Revised 05/20/2025)**

ZO with ECI SINGLE PUCK (Rev T)

| BOAT MANUFACTURER | ZO SOFTWARE VERSION w/ ECI SINGLE PUCK |
|-----------------------------|---|
| NAUTIQUE 2026 (6.2L / 5.3L) | E1886100T |

ZO with ECI SINGLE PUCK (Rev S)

| BOAT MANUFACTURER | ZO SOFTWARE VERSION w/ ECI SINGLE PUCK |
|---------------------------------|---|
| CENTURION | E1886100S |
| MALIBU (2019 & Earlier) | E1886100S |
| MALIBU (2020 Model Yr. & Later) | E1886101S |
| MASTERCRAFT (2019 & Earlier) | E1886100S |
| MASTERCRAFT (2020 Model Yr.) | E1886101S |
| MASTERCRAFT (2021 Yr. & Later) | E1886102S |
| NAUTIQUE (6.2L / 5.3L) | E1886100S |
| NAUTIQUE (5.7L) | E1886180S |
| NAUTIQUE (6.0L) | E1886190S |

ZO with ECI SINGLE PUCK (Rev R)

| BOAT MANUFACTURER | ZO SOFTWARE VERSION w/ ECI SINGLE PUCK |
|--------------------------|---|
| CENTURION | E1886401R |
| MALIBU | E1886401R |
| MASTERCRAFT | E1886401R |
| NAUTIQUE | E1886400R |
| NAUTIQUE (5.7L) | E1886480R |
| NAUTIQUE (6.0L) | E1886490R |

ZO with GARMIN DUAL PUCKS (Rev R)

| BOAT MANUFACTURER | ZO SOFTWARE VERSION w/ GARMIN DUAL PUCKS |
|--------------------------|--|
| CENTURION | E1886205R (latest) E1886102R |
| MALIBU | E1886256R (latest) |
| MASTERCRAFT | E1886205R (latest) E1886204R E1886203R E1886102R |
| NAUTIQUE | E1886303R (latest - Linc Display) E1886302R E1886203R (latest - ZO Head Unit) E1886202R |

5.05: Approved Boats



USA Water Ski & Wake Sports
Approved Tournament
Towboats 2026 Model Year
Towboats



REVISED 01/01/2026

The 2026 Model Year towboats below meet the 2025-2026 USA Water Ski Approved Tournament Towboat Evaluation criteria and are "APPROVED" for sanctioned events. Boats are approved only as tested, and must be configured with engine, transmission, propeller, and speed control system as shown below.

As Chief Driver, it is your responsibility to ensure Towboats are used in tournaments as approved and configured below.

| Boat Manufacturer | Model | New/ Unmodified | Engine Mfr. & Model/Trans. | Mfg / Model | Propeller | | Speed Control | | | | | | | | |
|----------------------|--------------|--------------------|--|--|-------------|---|------------------|-------------------------|---------------------|--------|---------------------------------------|-------------------------|---------------------|----------------|----------------------------------|
| | | | | | Blades | Size | | | | | | | | | |
| Malibu | Response TXi | Unmodified | 5.3L M5Di / 1:1 | AC 525* | 3 | 13 x 11.5 Nibral | ZO Rev S | | | | | | | | |
| | | | | | | | | 6.2L M6Di / 1:1 | AC 525 | 3 | 13 x 11.5 Nibral | | | | |
| | | | | | | | | | | | | OJ 358 | 3 | 13 x 12 Nibral | |
| | | | | | | | | | | | | | | | OJ 359 |
| MasterCraft | ProStar | Unmodified | Ilmor MV8 (6.0L) / 1.26:1 Ilmor MV8 (6.2L) / 1.22:1 | OJ 3024-MF* OJ 1709-MF OJ 867-MF | 4 4 3 | 13 x 15 Nibral 13.9 x 14.25 Nibral 14 x 13.5 Nibral | ZO Rev S | | | | | | | | |
| | | | | | | | | PCM ZZ5 (5.3L) / 1.23:1 | AC 1490* AC 4000 | 4 3 | 13.25 x 15.5 Nibral 13 x 15 Nibral | | | | |
| | | | | | | | | | | | | PCM ZZ6 (6.2L) / 1.23:1 | AC 4654* AC 4000 | 4 3 | 14 x 16 Nibral 13 x 15 Nibral |
| | | | | | | | | | | | | | | | |
| Nautique | Ski Nautique | New | | | | | ZO Rev T | | | | | | | | |

NOTE: Props indicated with * are typically the primary prop; however, boats with engines approved with more than one propeller may use any approved prop in sanctioned tournaments.

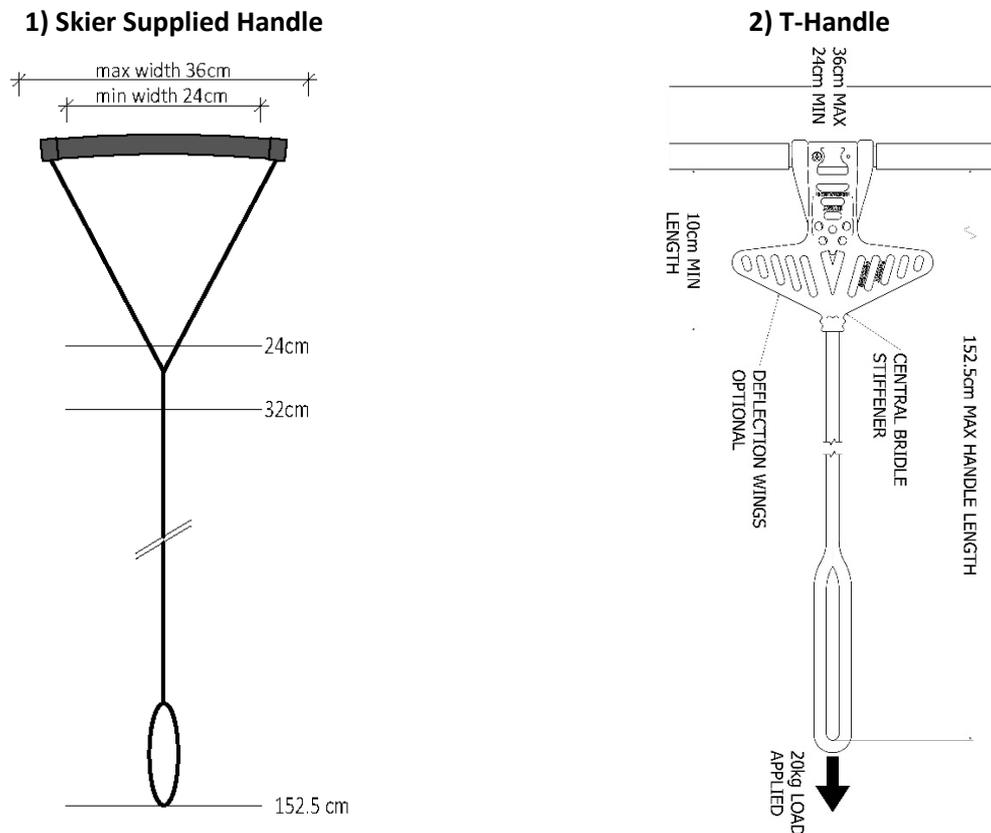
5.11: Skier Supplied Handle in Slalom and Jump

For Slalom and Jump each competitor may furnish his own handle. All skier supplied handles shall be made of a material with a non-slip surface or coating, have no sharp edges or projections, and slalom handle must have protective end caps. The attaching ropes must in all cases go through the handle and must be attached so there is no possibility of movement between the rope and handle when in use. The handle shall be attached to the rope so that it is perpendicular to the direction of the line.

- Width shall be between 24cm and 36cm.
- The length of the handle measured from the inside surface of the attaching loop furthest from the handle to the inside edge of the handle must be **max 152.5cm**, length shall be measured using a 2cm block at the inside edge at the handle centre.
- Short length tolerances as noted in 5.09 d) shall not be enforced, in other words a skier supplied handle which measures short per rule 5.09 d) shall not be reason for disqualification.

The handle must be similar in design and construction to picture 1 below.

T-Handle: A T-Handle may be used which is constructed similar to picture 2 below. The T-Handle must have a bridle stiffening piece to ensure there is no possibility of movement between the stiffener and the handle when in use.



The skier shall notify the Jetty Marshall, at least three skiers before his turn, of his wish to change handles. It's the skier's responsibility that the handle is in tolerance before and remains within tolerance after skiing, **IWWF rule 8 a).**

8.02: Shortening speeds

| Division | Shortening Speed Women/Girls | Shortening Speed Men/Boys |
|------------------|---------------------------------|------------------------------|
| Under 10 | shorten @ 49 kph | shorten @ 49 kph |
| Under 14 | shorten @ 52 kph | shorten @ 55 kph |
| U-17, U-21, Open | shorten @ 55 kph | shorten @ 58 kph |
| 35+ | shorten @ 55 kph | shorten @ 55 kph |
| 45+ | shorten @ 52 kph | shorten @ 55 kph |
| 55+ | shorten @ 52 kph | shorten @ 55 kph |
| 65+ | shorten @ 49 kph | shorten @ 52 kph |
| 70+ | shorten @ 49 kph | shorten @ 52 kph |
| 75+ | shorten @ 46 kph | shorten @ 49 kph |
| 80+ | shorten @ 46 kph | shorten @ 49 kph |
| 85+ | shorten @ 46 kph | shorten @ 46 kph |

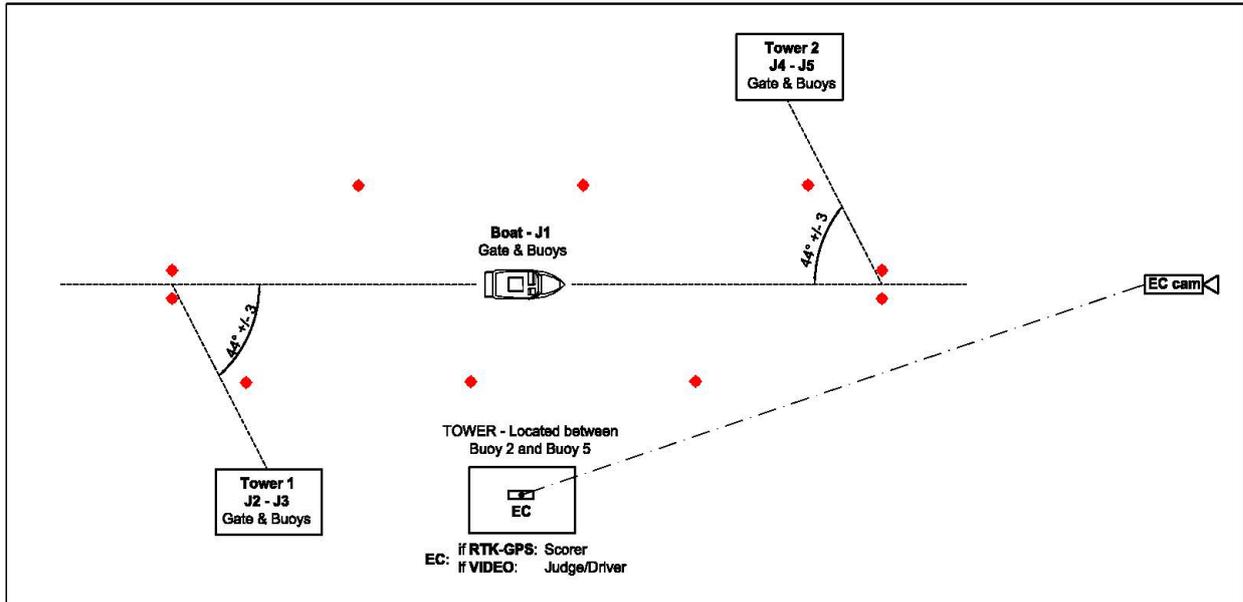
Note: Starting from November 1st, 2026, the following change will be effective.

| Division | Shortening Speed Women/Girls | Shortening Speed Men/Boys |
|----------|---------------------------------|------------------------------|
| 75+ | shorten @ 46 kph | shorten @ 52 kph |

8.13: Slalom Judging

Depending on the technology available, slalom shall be judged using one of the configurations described below. The minimum number of Judges and their responsibilities shall be as specified for each configuration.

a) Two Jury Towers @ 44 degrees / No Gate Cameras or Boat Video (5 Judges)



1) Judging Positions

- One (1) Judge shall be positioned in the boat (Boat Judge).
- Two (2) Judges shall be positioned in each slalom judging tower.

2) Gate Judging

- The entry and the exit gate determinations shall be made by the Boat Judge and the two tower Judges closest to each gate.

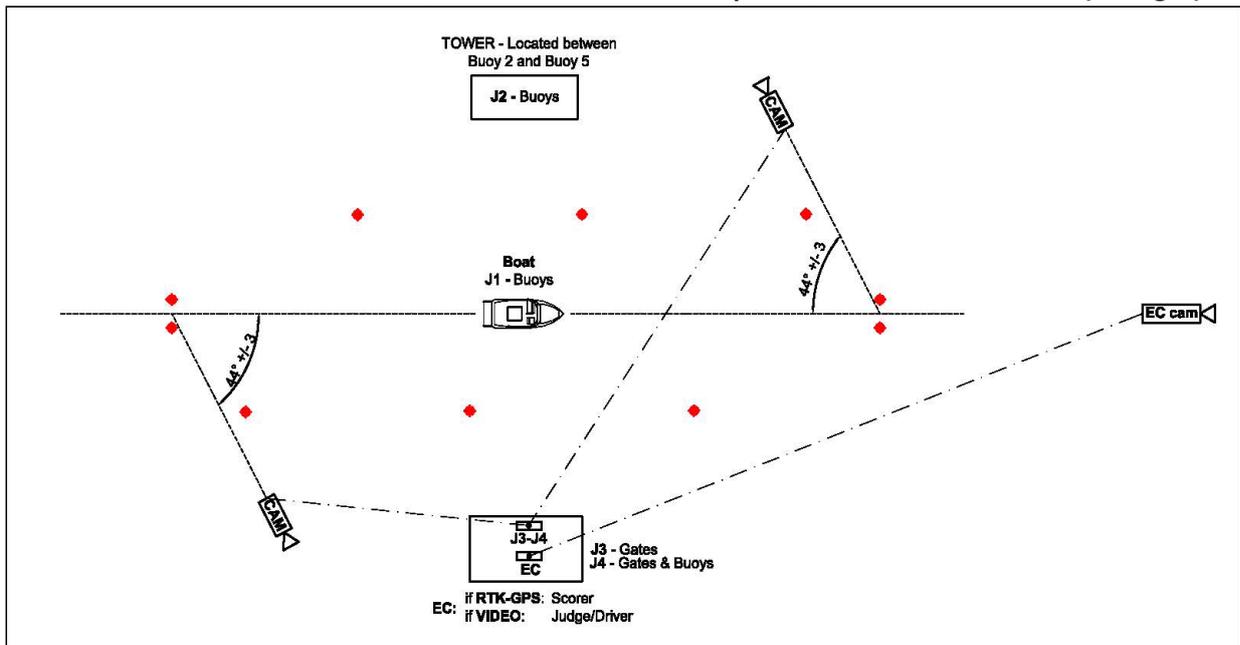
3) Buoy Judging

- All five (5) Judges shall independently judge the skier's buoy count.

4) Scoring Procedure

- The first determination shall be whether the skier has **passed through the entry gate**.
- Each Judge shall continue scoring the run regardless of their gate determination; however, a Judge who determines that the entry gate was missed shall record a score of **0 (NG) + X** buoys, where **X** represents the buoy score that Judge would have awarded had the gate been judged as made.
- If the entry gate is judged as made:**
The **buoy count** shall be the highest score supported by a simple majority of the Judges submitted scores.
- The final determination shall be whether the skier has **passed through the exit gate**.
- Judges submitted scores shall be final.
- The score shall be finalized before the next competitor is permitted to start.

b) Two Centre Towers, one each side / Live Boat Video not Required / Two Gate Cameras - (4 Judges)



1) Gate Cameras

- a. Gate cameras may be used in place of slalom judging towers.
- b. Cameras shall be positioned at not less than the height specified in Rule 8.06 and sufficiently high to ensure that the buoy is not obscured by boat spray.
- c. Camera feeds shall be displayed and recorded in the Jury Tower.

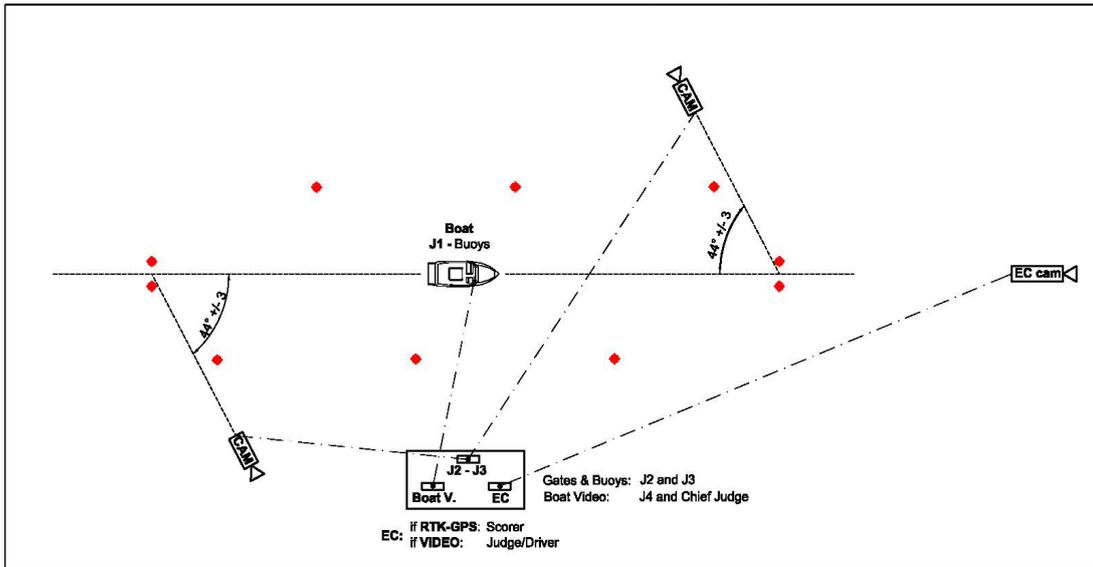
2) Gate Judging

- a. Each gate shall be judged independently by two (2) Judges observing the video monitor. The boat judge does not judge gates.
- b. If one or both Judges did not clearly observe the gate, video replay shall be used.
- c. Video review may be conducted at normal speed, slow motion, or frame by frame.
- d. Each gate may be reviewed a maximum of two (2) times, after which a decision shall be made.
- e. If the two Judges disagree on a gate call, the Chief Judge or an appointed Judge shall cast the deciding vote.
- f. The exit gate shall normally be judged by direct observation; video may be used to resolve uncertainty.
- g. In an eight (8) buoy slalom course, the exit gate shall be judged by direct observation only.

3) Buoy Judging

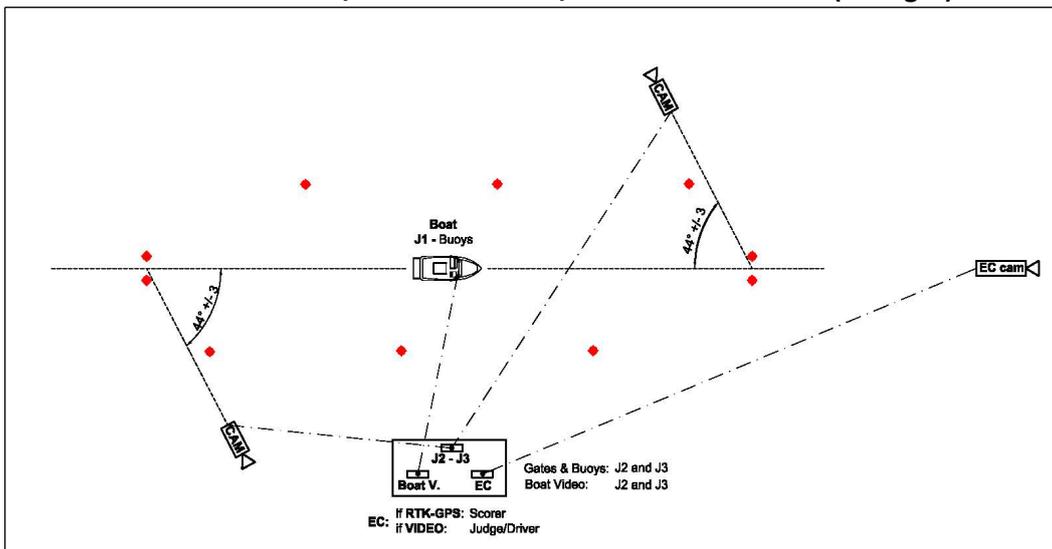
- a. Buoy count shall be judged by:
 - i. The Boat Judge; and
 - ii. Two (2) Judges, one on each side of the lake in a symmetrical placement and within 44 degrees (or buoy 2) to the centre of the course.
 - iii. If Boat video is used for review, see Rule 8.13c

c) One Centre Tower / Live Boat Video / Two Gate Cameras - (5 Judges)



- 1) Boat Video
 - a. Boat video feeds shall be displayed and recorded in the Jury Tower.
 - b. Recorded video shall be available for review.
- 2) Buoy count shall be judged by the Boat Judge and two (2) tower Judges.
- 3) A separate Judge (Review Judge) shall monitor the boat video.
- 4) If the Review Judge disagrees with the score determined by the event Judges, the Review Judge and the Chief Judge, or a Judge appointed by the Chief Judge, shall review the video.
 - * If both agree on a score, that score shall be awarded.
 - * If they disagree, or if the video does not clearly overrule the original score, the original score shall stand.
- 5) If no additional Judge is available, the Chief Judge may act as the Review Judge. If the Chief Judge disagrees with the event Judges' score, the Judges shall review the video. The final score shall be determined by simple majority.

One Centre Tower / Live Boat Video / Two Gate Cameras - (3 Judges)



- 1) Boat Video
 - a. Boat video feeds shall be displayed and recorded in the Jury Tower.
 - b. Recorded video shall be available for review.
- 2) Buoy count shall be judged by the Boat Judge and two (2) tower Judges.
- 3) If the Boat Judge's score differs from the scores of the two (2) tower Judges, and no additional Judge or Chief Judge is available, the two tower Judges may re-review the boat video. The final score shall be determined based on that review.

d) No Centre Tower/Live Boat Video/Two Gate Cameras - (5 Judges or 3 Judges)

- 1) This configuration may be used when a centre tower is not installed between buoys 2 and 5, provided all of the following conditions are met:
 - a. A reliable live boat video feed is transmitted to and recorded in the Jury Tower
 - b. (minimum 1080p at 25/30 fps; 50/60 fps recommended).
 - c. A separate backup boat video is recorded onboard the boat.
 - d. The Jury Tower shall be located on the event slalom lake.
 - e. Boat video shall be judged live by two (2) Judges.
 - f. Gate video shall be provided and judged in accordance with Rule 8.13.b.
- 2) If the Boat Judge's score differs from the scores of the two (2) tower Judges, or if required to determine the final score, the Chief Judge or designee shall review the recorded boat video.
- 3) Use of this configuration shall require the agreement of both the Chief Judge and the Homologator.

e) Exceptional Circumstance: 1 Centre Tower/Live Boat Video Not Possible/Two Gate Cameras - (4 Judges)

- 1) This configuration may be used when:
 - a. Installation of a tower on the opposite side of the lake is not feasible; and
 - b. Live boat video cannot be transmitted to shore due to technical limitations.
- 2) If the Boat Judge's score differs from the scores of the two (2) tower Judges, or if required to determine the final score, the Chief Judge or designee shall review the recorded boat video.
- 3) Use of this exception shall require the agreement of both the Chief Judge and the Homologator.
- 4) The reason for the exception shall be recorded on the Homologation Notice.

General

Other judging configurations may be possible; however, in all cases the minimum number of Judges required for gate judging and buoy judging shall comply with this rule. The total number of Judges required shall depend on whether individual Judges are assigned responsibility for gate judging, buoy judging, or both.

(Deleted ex rule 8.16 Driver Time)

8.19: Overlapping Courses (8 buoys course)

At sites where the approach to the slalom course is too short for the towboat to reach the required speed or for the towboat to line up with the course centreline, an eight-buoy course configuration may be used. This configuration consists of two overlapping six-buoy courses, with one course offset longitudinally by 82 meters relative to the other. Both courses share a single centreline. Homologation procedures are defined in Rule 25.02(c).

9.09: Proceeding Through the Trick Passes

The boat not return to pick up a dropped ski.

If the skier falls during or at the end of the first pass, he will receive a maximum of **60** seconds (ready to go) in which to be ready to be taken by the boat for his second pass.

If the skier did not fall during or at the end of the first pass, he may ask the boat to be stopped between passes for a maximum of **60** seconds (set down time).

9.18: Use of the Video Camera

Recommendation:

- * **The camera position and height will be decided by the Chief Judge, based on the level of the skiers entered in the competition.**
- * **The camera must remain in the same position throughout the entire event (preferably on the passenger side).**
- * **The camera should not be placed more than 50 cm above the windshield.**

9.22: Trick Value Chart

Note: Starting from November 1st, 2026, the following trick values will be effective.

| | | | | | | | |
|---------|-----|--|----|------------|------------|-------------|-------------|
| W7B | | B-B | 21 | 500 | 500 | 500 | 500 |
| TWLF | | B-F Toehold Stepoever | 38 | - | - | 400 | - |
| SL7F | | F-F Ski Line | 50 | - | - | 900 | 900 |
| BFLO | 360 | Wake Flip Full Twist F-F | 56 | - | - | 850 | 850 |
| BFL5B* | 540 | Wake Flip Twist with 540 F-B | 57 | - | - | 950 | 950 |
| BFL5F* | 540 | Wake Flip Twist with 540 B-F | 58 | - | - | 900 | 900 |
| FFLB | 180 | Forward Somersault with 180 F-B | 60 | - | - | 900 | 900 |
| FFLBB | 360 | Forward Somersault with 360 B-B | 62 | - | - | 1050 | 1050 |
| FFL5F | 540 | Forward Somersault with 540 B-F | 63 | - | - | 1100 | 1100 |
| BFLSLBB | 360 | Wake Flip Ski Line with 360 B-B | 66 | - | - | 950 | 950 |
| BFLSLO | 360 | Wake Flip Ski Line with 360 F-F | 67 | - | - | 950 | 950 |
| BFLSL5F | 540 | Wake Flip Ski Line with 540 B-F | 68 | - | - | 1030 | 1030 |
| FFLSL5F | 540 | Forward Somersault Ski Line with 540 B-F | 69 | - | - | 1150 | 1150 |

10.06: Boat Timing and Re-ride Situations

Three segment Mode

| Speed | 1st segment (52m) | | 1st+2nd segment (82m) | | | 3rd segment (41m) | | |
|-------|-------------------|------|-----------------------|--------|------|-------------------|--------|------|
| | fast | slow | fast | actual | slow | fast | actual | slow |
| 57 | 3.25 | 3.37 | 5.11 | 5.18 | 5.25 | 2.36 | 2.40 | 2.46 |
| 54 | 3.43 | 3.56 | 5.39 | 5.47 | 5.55 | 2.54 | 2.59 | 2.66 |
| 51 | 3.63 | 3.78 | 5.70 | 5.79 | 5.88 | 2.68 | 2.73 | 2.81 |
| 48 | 3.86 | 3.98 | 6.05 | 6.15 | 6.25 | 2.84 | 2.89 | 2.98 |
| 45 | 4.11 | 4.25 | 6.45 | 6.56 | 6.68 | 3.01 | 3.08 | 3.17 |

~~When the speed is below the maximum for the division, the third segment will not be used with the exception that it may not exceed the maximum speed time for the event division. (Please note that if this happens, it is likely that the speed control is not working according to the intended algorithm and the manufacturer and the WSC Chairman should be notified).~~

10.11: Boat Path

Boat Path Measurement System

A Boat Path Measurement System, (BPMS) is required for all Record Capability(R), and Rankings Lists(L) events. All jump passes shall be monitored for PATH, CUT, FLIGHT and CUMULATIVE deviation.

Data will be collected via WaterSkiConnect during the **2026** ski year. Deviation tolerances and re-ride situations will be established for the **2027** ski year for distance equal to or greater than:

11.01: Rules for U-10, U-14, 65+ and over Individual Overall

Qualification for Individual Overall Scoring

- a) To qualify for overall, an Under 10 competitor must ski in slalom and tricks. (competing in jump is not necessary)
- b) To qualify for overall, an Under 14 competitor must ski in slalom, tricks and jump.
- c) To qualify for overall in the **65+ and over age Divisions**, competitors must ski in slalom and tricks. (competing in jump is not necessary).

14.05: Choosing Appointed Judges

Panel of Officials Pre-Event Briefing.

The panel of officials will be invited to a pre-event briefing meeting prior to the start of the Championships. This will be organised and chaired by the Chief Judge, with the assistance of a member of the WSC. The aim of this briefing is to compare and align judging practices and procedures, to ensure consistency and uniformity in judging throughout the Championships.

14.12: Entry and Administration

Each Federation shall declare, through EMS, not later than 75 days before the scheduled start of the first event of the Championships:

- The names of the members of its team
- The names of the competitors entered as "Individuals"
- The names of the competitors entered as Wild Cards
- The names of the Official reserves.

For each competitor registered, the events that they will compete in together with the ramp height for Jump need to be entered.

An entry is considered complete when the Skier's name is registered in EMS and the full Entry Fee Payment has been received.

The entry fee payment must follow the process described in the Official Competition Bulletin. No payment is required for Official Reserves.

Any skier entered as a Wild Card or Individual is also to be considered to be a TEAM reserve.

An entered

c) Establishment of seeding for the World Championships:

Seeding will be established using the Ranking List published 30 days before the start of the first event and the same dated list from one year prior where the skiers rank is the higher of the current list or the previous year's list with a 25% penalty. Where seeding ties exist due to current and prior year list scores, the skier ranked from the current listed year will take the higher seed, followed by the skier from the previous year. If a tie still exists, then skiers seeding will be subject to a random draw.

For example: If the first day of competition skiing is Oct 12th the Weekly Ranking List published as of September 12th shall be use as well as the September 12th Weekly Ranking List of the prior year with a 25% penalty

Note: The 30 days before and the same dated list from one year prior, as soon as confirmed, will be posted on EMS, under "Competition Documents & Bulletins" section.

14.15: Placement Eligibility Chart

Skiers eligible to compete as Individuals at the relevant World Championships must be ranked within the positions shown in the charts below.

* For Championships held from June to December, the April 30th Ranking List will be used.

* For Championships held from January to May, the October 31st Ranking List will be used.

If the Championships take place more than 90 days after the publication of the applicable Ranking List, then in addition to the above, the Waterski Ranking List dated 60 days before the start of the Championships will also be used, in accordance with the chart below (Current Year).

The 60 days before Ranking, as soon as confirmed, will be posted on EMS, under "Competition Documents & Bulletins" section.

23.12: Record Review Process

Approval Process

chairman of the World Waterski Council.

- Tricks Call - A set of Judges will be appointed to review and call the video as defined below:
 - * If the original panel was 3 Judges, the convened panel will be **18** more Judges, as illustrated in the table below. These **18** convened Judges calls will be combined with the 3 competition Judges calls to give **21 sheets**. Each trick must have **13** Judges give it credit to pass.
 - * If the original panel was 5 Judges, the convened panel will be 16 more Judges, as illustrated in the below table. These 16 convened Judges calls will be combined with the 5 competition judges calls to give 21 sheets. Each trick must have 13 Judges give it credit to pass.

| | | | | |
|-------------------------|--------------------------------|---------------------------|--------------------------|-----------|
| Panel - 3 Judges | Record in PanAm | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 4 | 7 | 7 | 21 |
| | Record in Europe/Africa | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 7 | 4 | 7 | 21 |
| | Record in Asia/Oceania | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 7 | 7 | 4 | 21 |
| Panel - 5 Judges | Record in PanAm | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 4 | 6 | 6 | 21 |
| | Record in Europe/Africa | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 6 | 4 | 6 | 21 |
| | Record in Asia/Oceania | | | |
| | Judges from PanAm | Judges from Europe/Africa | Judges from Asia/Oceania | |
| | 6 | 6 | 4 | 21 |

Rule 24 – World Ranking List

The World Ranking List is a list of the best men and women skiers in each event ranked by performance. Lists are also produced for skiers meeting the age criteria and based on skiing the appropriate age division rules (see rule [2.03](#) – Excluding U-10).

If a skier competes in a different age division, a Slalom score at 58, 55, 52 or 49 will be equal to a score at any slower speed of 55, 52, 49 or 46. A Tricks score will be accepted as it is. A Jump score will be accepted as it is regardless of speed/ramp height, except that, a Jump performance done in an age division different from the Natural Age Division, will only be used in the Under 21 or Open Division Ranking List, regardless of the skier age, requested speed and ramp height.

The following will be implemented in 2026 after the new EMS Ranking List has had the necessary changes made to include these situations

If a skier competes in a different age division:

- Slalom scores at 58, 55, 52 or 49 will be equal to a score at any slower speed of 55, 52, 49 or 46.
- Trick scores will be accepted as they are.
- A Jump score executed in a different age division from the athlete's own, can only be used in the skiers age-division ranking list, if performed with a ramp height and speed appropriate to the athlete's age division.

If not, the score will only be valid for the U-21 and Open age divisions.

The ranking is based on the average of each skier's two best scores from two separate competitions and two separate sites. Only one score in each event is considered from each competition. Each IWWF Federation sanction Record Capability or World Standings List competitions from which the performances are taken. Performances are taken from published results and submitted by the sanctioning Federation or Confederation.

Any Trick Score over 11,000 point that is submitted to the Ranking List must either:

- a) Be performed in a "Record Capability" competition.
- b) Be performed in a "Rankings List" competition AND be ratified by a three judges panel appointed by the World Waterski Council.

If a skier records only one qualifying performance, he/she will not be eligible for the list. Ties on the ranking list will be broken by taking the highest score first to break the tie, then backed up by the second score, then the third score and so on.

If a performance in a Rankings List competition exceeds the current World Record, it will be placed on the rankings list as one increment below the current record. If a record score is made in a Record Capability competition but is subsequently rejected, it will be placed on the rankings list as one increment below the current record. (Slalom 0.25 or 0.50 buoy, Tricks 10 points, Jump 0.1m)

A separate ranking list overall will be calculated based on fixed scores in each event on a competition-by-competition basis. This means that an overall score can only be achieved for the list by having an overall performance at a competition. Event scores from multiple competitions will not be combined to calculate an overall score. An overall score shall be from a single round of a competition. The rounds of a competition shall be set by the organisers and are NOT based on the first time a skier ski in a multi round competition.

Ranking List Overall Score Basis

| | Under 14 Boys | Under 14 Girls |
|---------------|---------------------------|----------------------------|
| Slalom | 2.00@55/11.25 (56 buoys) | 2.00@52/11.25 (56 buoys) |
| Trick | 6630 | 5300 |
| Jump | 35.3 | 27.0 |
| | U-17 Boys | U-17 Girls |
| Slalom | 1.00@58/10.25 (55) | 2.00@55/10.75 (50 buoys) |
| Trick | 12050 | 10440 |
| Jump | 59.1 | 46.0 |
| | Open and U-21 Men | Open and U-21 Women |
| Slalom | 2.50@58/9.75 (50.5 buoys) | 4.50@55/10.25 (46.5 buoys) |
| Trick | 12570 | 11260 |
| Jump | 77.4 | 60.3 |

| | 35+ Men | 45+ Men | 55+ Men | 65+ Men |
|---------------|--------------------|--------------------|--------------------|--------------------|
| Slalom | 1@10.25 (43 buoys) | 3@10.75 (45 buoys) | 5@11.25 (53 buoys) | 2@11.25 (50 buoys) |
| Trick | 11100 | 5400 | 3200 | 3000 |
| Jump | 60.7 | 53.0 | 46.0 | 33.0 |
| | 35+ Women | 45+ Women | 55+ Women | 65+ Women |
| Slalom | 2@11.25 (38 buoys) | 2@11.25 (38 buoys) | 2@11.25 (50 buoys) | 4@14.25 (34 buoys) |
| Trick | 6000 | 4200 | 3700 | 2100 |
| Jump | 41.7 | 38.0 | 34.4 | 18.3 |

Ranking List Overall formula:

Tricks:

All categories

Skiers score X 1000 / Ranking List Overall Score Basis

Slalom:

Under 14

Skiers: score X 1000 / Ranking List Overall Score Basis.

Buoys count from 40/18,25 for Girls - 43/18,25 for Boys.

Under 17

Skiers score X 1000 / Ranking List Overall Score Basis.

Buoys count from 49/18,25 for Girls - 52/18,25 for Boys.

Under 21 and Open

(Skiers score + 12) X 1000 / (Ranking List Overall Score Basis + 12)

Buoys count from 55/18,25 for Women - 58/18,25 for Men.

Over 35

Skiers score X 1000 / Ranking List Overall Score Basis

35+: (Buoys count from 52/18,25 for Women - 55/18,25 for Men)

45+: (Buoys count from 49/18,25 for Women - 52/18,25 for Men)

55+: (Buoys count from 43/18,25 for Women - 46/18,25 for Men)

65+: (Buoys count from 40/18,25 for Women - 43/18,25 for Men)

Ranking List Buoys count table:

| | | 25 | 28 | 31 | 34 | 37 | 40 | 43 | 46 | 49 | 52 | 55 | 58 | 16,00 | 14,25 | 13,00 | 12,00 | 11,25 | 10,75 | 10,25 | 9,75 |
|------------------|--------------|--|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|-------|-------|------|
| U-10 | Girls | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | X | X | X | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 |
| | Boys | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | X | X | X | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 |
| U-14 | Girls | | | | | | 6 | 12 | 18 | 24 | 30 | X | X | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| | Boys | | | | | | | 6 | 12 | 18 | 24 | 30 | X | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| U-17 | Girls | | | | | | | | | 6 | 12 | 18 | X | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 |
| | Boys | | | | | | | | | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 |
| U-21 Open | Women | (Please note n. of buoys +12 as per the formula) | | | | | | | | | | 6 | X | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| | Men | | | | | | | | | | | | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 35+ | Women | | | | | | | | | | 6 | 12 | X | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| | Men | | | | | | | | | | | 6 | X | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 45+ | Women | | | | | | | | | 6 | 12 | X | X | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| | Men | | | | | | | | | | 6 | 12 | X | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 55+ | Women | | | | | | | 6 | 12 | 18 | 24 | X | X | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| | Men | | | | | | | | 6 | 12 | 18 | 24 | X | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| 65+ | Women | | | | | | 6 | 12 | 18 | 24 | X | X | X | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| | Men | | | | | | | 6 | 12 | 18 | 24 | X | X | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |

Jump:

| | |
|-----------------|---|
| Under 14 Girls: | $((\text{Skier score} - 7) \times 1000) / (\text{Ranking List Overall Score Basis} - 7))$ |
| Under 14 Boys: | $((\text{Skier score} - 10) \times 1000) / (\text{Ranking List Overall Score Basis} - 10))$ |
| Under 17 Girls: | $((\text{Skier score} - 13) \times 1000) / (\text{Ranking List Overall Score Basis} - 13))$ |
| Under 17 Boys: | $((\text{Skier score} - 20) \times 1000) / (\text{Ranking List Overall Score Basis} - 20))$ |
| Under 21 Women: | $((\text{Skier score} - 17) \times 1000) / (\text{Ranking List Overall Score Basis} - 17))$ |
| Under 21 Men: | $((\text{Skier score} - 25) \times 1000) / (\text{Ranking List Overall Score Basis} - 25))$ |
| Open Women: | $((\text{Skier score} - 17) \times 1000) / (\text{Ranking List Overall Score Basis} - 17))$ |
| Open Men: | $((\text{Skier score} - 25) \times 1000) / (\text{Ranking List Overall Score Basis} - 25))$ |
| 35+ Women: | $((\text{Skier score} - 7) \times 1000) / (\text{Ranking List Overall Score Basis} - 7))$ |
| 35+ Men: | $((\text{Skier score} - 20) \times 1000) / (\text{Ranking List Overall Score Basis} - 20))$ |
| 45+ Women: | Skier score x 1000 / Ranking List Overall Score Basis |
| 45+ Men: | $((\text{Skier score} - 15) \times 1000) / (\text{Ranking List Overall Score Basis} - 15))$ |
| 55+ Women: | $((\text{Skier score} + 5) \times 1000) / (\text{Ranking List Overall Score Basis} + 5))$ |
| 55+ Men: | $((\text{Skier score} - 10) \times 1000) / (\text{Ranking List Overall Score Basis} - 10))$ |
| 65+ Women: | $((\text{Skier score} + 10) \times 1000) / (\text{Ranking List Overall Score Basis} + 10))$ |
| 65+ Men: | Skier score x 1000 / Ranking List Overall Score Basis |

~~For Ranking List & Record Capability Homologation purposes, a competition is allowed a maximum of 4 rounds (in each of Slalom, Tricks, and Jump). The competition must be held on consecutive days, and 3 entire days must lapse before the next competition can start at the same site code.~~

~~Additional rounds may be held during the competition which are not Ranking List & Record Capability, if allowed by the hosting federation. However, only the rounds declared in advance within the "Homologation Notice" will be recognized as Ranking List & Record Capability.~~

~~Note, the "Homologation Notice" must be posted before the competition starts.~~

~~To be eligible to be on the ranking list, a competition must post the IWWF Homologation Dossier within 15 days of the competition. This will be done by uploading the dossier on:~~

~~EMS: <https://ems.iwwf.sport/> competition name, menu Attachments, and~~

~~IWSF.com web site by accessing to the following link:~~

~~<http://www.iwsftournament.com/homologation/UploadDossiers.htm>~~

~~To be eligible to be on the ranking list, a competition must post the results within 15 days of the competition. This will be done by uploading the file on the EMS and on the IWSF.com web site by accessing to the following link:~~

~~EMS: <https://ems.iwwf.sport/> competition name, menu Results~~

~~<http://www.iwsftournament.com/homologation/UploadScorebooks.htm>~~

~~Scores uploaded more then 30 days after the competition will be added to the Ranking only in exceptional cases via the Discipline Administrator, and for valid reasons.~~

SCHEDULE AND SUBMISSION PROCESS

a) ~~October 31~~ closing date for the November List

- ~~1. November 15~~ Last allowable date for scores submission for the November List
- ~~2. Nov 30~~ List is published with a 30-day correction period
- ~~3. December~~ (30 days after initial publication) November List is finalised

b) ~~April 30~~ closing date for the May List

- ~~1. May 15~~ Last allowable date for scores submission for the May List
- ~~2. May 31~~ List is published with a 30-day correction period
- ~~3. June~~ (30 days after initial publication) May List is finalised

Scores shall be submitted electronically in the following format:

~~Please note that one record is to be submitted for each performance so that a three-events skier skiing in a two round competition will have 6 records in the shown format.~~

~~Scores not submitted in the correct format or missing information will be rejected and returned to the Organising Federation to correct and resubmit.~~

There are two more official ranking lists, a daily list and a weekly list published every Tuesday. The weekly list is archived, and previous lists are available. Both lists are based on competitions submitted up to the day of calculation and include performances from the previous year to date.

Data format for individual performance records

| Field | Field Name | Type | Width | Dec. | Notes |
|-------|------------|-----------|-------|------|--|
| 1 | LAST | Character | 20 | | IN-CAPITAL LETTERS |
| 2 | FIRST | Character | 20 | | In normal mode (John Michael) |
| 3 | SKIER | Character | 11 | | Federation specific ID Number |
| 4 | GROUP | Character | 1 | | 1,2, or 3 |
| 5 | COUNTRY | Character | 3 | | Normal IOC code |
| 6 | SEX | Character | 1 | | M or F |
| 7 | TOUR | Character | 8 | | alphanumeric code usually year+country code+number 09FRA015 |
| 8 | SL | Numeric | 5 | 2 | number of buoys only at max speed |
| 9 | TR | Numeric | 5 | | |
| 10 | JU | Numeric | 5 | 1 | in meters (decimal point separator 56.2) |
| 11 | ALT_SCORE | Numeric | 7 | 2 | If a slalom score, buoys of last pass If a jump score, optional use distance in feet If a trick score, blank |
| 12 | YOB | Character | 4 | | Change to full 4 digits year |
| 13 | CLASS | Character | 1 | | R or L for ranking list perfor. |
| 14 | ROUND | Character | 2 | | |
| 15 | DIV | Character | 12 | | division (local division — must be the same across events for overall calc) |
| 16 | PERF_QUAL1 | Numeric | 6 | 3 | if slalom then line length (14.25,13.00, etc.) if jump then ramp angle (.235,.255,.271 only) |
| 17 | PERF_QUAL2 | Numeric | 2 | | speed for slalom and jump only |
| 18 | DATE | Date | 8 | | date of performance (YYYYMMDD) |
| 19 | SPECIAL | Character | 1 | | J if performance done under U-17 Rules F if performance is Ski Flying |
| 20 | SPEED_CTRL | Character | 1 | | Y=Yes, N or blank=no |
| 21 | SL_MISS | Character | 1 | | * means 1st pass not complete (optional if score is already adjusted) |
| 22 | PLACE | Numeric | 3 | 0 | Placement in the event — use the final placement in each performance record so if the skier placed 2nd and the competition was 3 rounds each round record will indicate 2nd place. Also, the placement is for the division the skier skied in so that a competition will have a corresponding set of placements for each division. |
| 23 | IWWF | Character | 12 | | IWWF License number assigned by the EMS to each skier |
| 24 | Site ID | Character | 8 | | Site Code Country Code followed by a 4 digits number indicating the specific ski site. Multi-lake sites will be given one site code. |

** Total ** 148

Additional fields for local meaning may be added here such as Club, or State, or League.

Sample text inputs:

HINMAN;Dana;USA1234;;USA;M;98S056R;46.50;;;4.50;1980;R;1;IB;13.00;58;19980524;;Y;;3;USAM80123459;USA0001

HINMAN;Dana;USA1234;;USA;M;98S056R;;4100;;;1980;R;1;IB;;;19980524;;Y;;10;USAM80123459;USA0001

HINMAN;Dana;USA1234;;USA;M;98S056R;;;52.8;173.0;1980;R;1;IB;0.255;51;19980524;;Y;;1;USAM80123459;USA0001

Round 1 shown all events with a “;” delimiter

Year of Birth is mandatory.

Special Condition Code now has two cases and they are

- 1.— J if the skier is of U-17 age and the event was run with U-17 rules
- 2.— F if the event is Ski Flying

Ranking Lists are currently published two times a year for results less than one year old on the following dates: April 30 and October 31.

The normal procedure will be that performances are submitted any time up to 30 days after the results closing dates (listed above). A preliminary list will then be published. Certified changes may be submitted for 30 days after the publication of the preliminary list. At that point, results will be closed, and a final list shall be published.

All data must be submitted through a verification process. It is the responsibility of the submitting authority to ensure that the data is valid. Competition data will not be accepted until all the competition data is valid. This process is done by uploading the data on the EMS and on the IWSF.com web site by accessing to the following link:

<http://www.iwstournament.com/homologation/IWWFRankingScoresUpload.php>

New to replace all the above:

Ranking List administration

The **Waterski Ranking List** is daily updated and archived at the end of each month. It is published on the IWWF EMS website at: <https://ems.iwwf.sport/RankingList/RankingListWaterski>.

For a competition to be eligible for inclusion in the Ranking List, the following files must be uploaded within 15 days:

- Ranking score file: <https://ems.iwwf.sport/>... competition details, menu Results, button Upload Results.
- Homologation dossier file: <https://ems.iwwf.sport/> ... competition details, menu Attachments, New File. File Category: select Other.

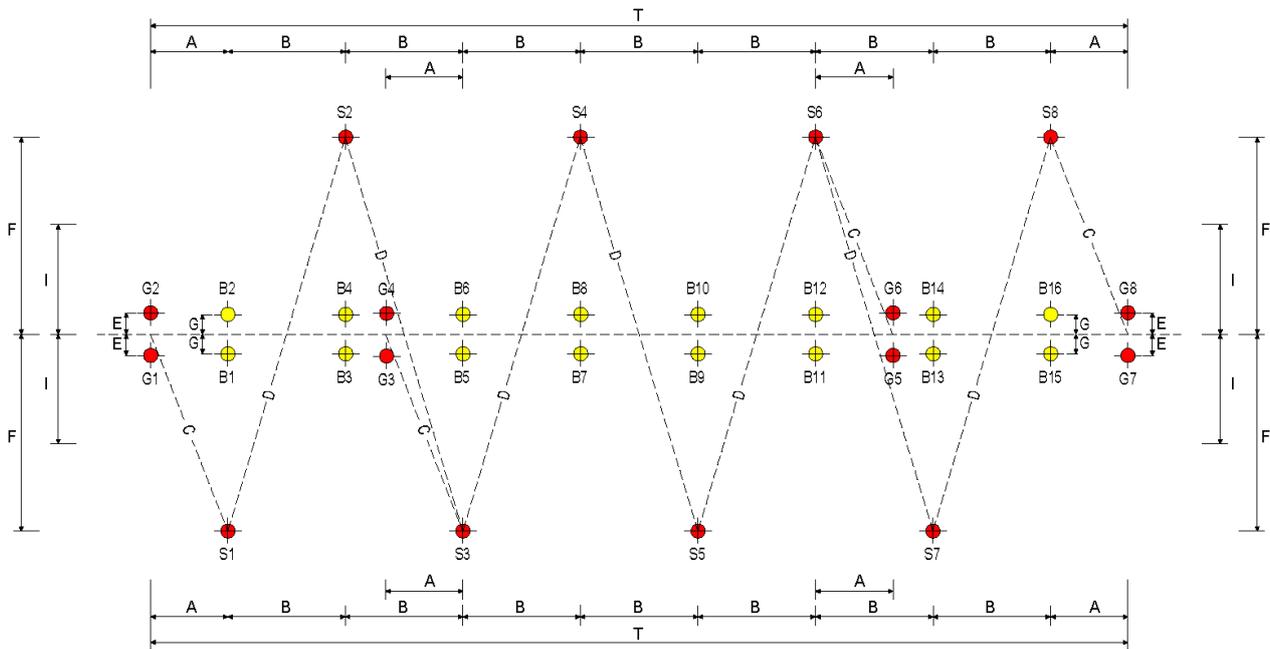
Scores uploaded more **than 15 days** after the competition will be added to the Ranking List only in exceptional cases, through the Discipline Administrator and for valid reasons.

To be used, all competition scoring software must be approved by the IWWF.

An approved interface must be used for competition files generated by the EMS, and to upload Ranking Score files.

25.02: Slalom Homologation Guidelines:

a) Slalom Survey - 8 Bouy Course



| Dimension | Minimum | ACTUAL | Maximum | Tolerance |
|-----------|---------|----------------|---------|-----------|
| T | 340,148 | 341,000 | 341,853 | 1/4% |
| A | 26,865 | 27,000 | 27,135 | 1/2% |
| B | 40,795 | 41,000 | 41,205 | 1/2% |
| C | 29,200 | 29,347 | 29,494 | 1/2% |
| D | 46,776 | 47,011 | 47,246 | 1/2% |
| E | 1,188 | 1,250 | 1,313 | 5% |
| F | 11,385 | 11,500 | 11,615 | 1% |
| G | 1,035 | 1,150 | 1,265 | 10% |

Note: The average of **the eight measured F** dimensions cannot be less than 11.48m and not more than 11.54m.

Entry and Exit gate: Red/Orange Skier Buoys: Red/Orange Boat Guide Buoys: Yellow.

Boat path alignment (pre-gates) of colours contrasting to the skier and boat gate buoys (green recommended).

For safety reason soft buoys must be used for gates and skier buoys.

- 1) Survey methodology and equipment – See technical specification ([25.05](#)).
- 2) Individual Anchor Slalom Courses must be surveyed (**full survey**) **within 90 days** of the event and **validated (G1 to G8 and S1 to S8)** by the Homologator **within 10 days of the event**. It is the responsibility of the Homologator to ensure that the buoys have not moved prior to the event. If there is any doubt the Homologator should make another full survey prior to the event.
- 3) A floating cable slalom course (approved single line, four-line, cross course) must be surveyed (**full survey**) **within 10 days** of the event and **validated (G1 to G8 and S1 to S8)** by the Homologator **within 3 days of the event**. It is the responsibility of the Homologator to ensure that the buoys have not moved prior to the event. If there is any doubt the Homologator should make another full survey prior to the event.
- 4) **The centreline for an 8-bouy course (two overlapping 6-bouy courses) is 341m and it's a line from the middle of G1-G2 to the middle of G7-G8 gates.**
- 5) **The midpoint between G3/G4 and the midpoint between G5/G6 must not exceed 4cm from the centreline.**

- 6) Each left side gate buoys (G2, G4, G6, G8) and the right-side gate buoys (G1, G3, G5, G7) must each be visually straight
- 7) Each left-side boat guides (B2,B4,B6,B8,B10,B12,B14,B16) and the right-side boat guides (B1,B3,B5,B7,B9,B11,B13,B15) must each be visually straight. To ensure that each side is straight, each individual boat guide distance/width from the centreline/axis (1.15) is within 4cm of the average boat guide distance/width for that side.
(Example: Axis-B1=1.15, B3=1.16, B5=1.12, B7=1.18, B9=1.15, B11=1.17, B13=1.13, B15=1.17; Avg.=1.154 (Meets requirements).
- 8) To ensure that the visual centreline (axis), as seen from the boat guides, is equal to the calculated centreline (axis), the difference between the average boat guide width on each side should not be more than 4cm.
(Example: Axis B1-B15 Avg =1.155; Axis B2 -B16 Avg=1.20 (Does not meet requirement).

b) Slalom RTK-GPS (8 buoys course)

- 1) RTK-GPS System- See technical specification ([25.08](#)).
- 2) Setup and/or Verification of RTK-GPS system by the Homologator or their designee shall take place - before the competition starts - per the manufacturer's recommendations and these guidelines.
- 3) **The Homologator must establish or verify an existing boat path course centreline. To establish a new course centreline, plot the entry and exit gates (G1,G2,G3,G4,G5,G6,G7,G8) and plot S1 through S8. To verify an existing boat path course centreline, use the Buoy Check feature to verify G1 and G7 buoys.**

Note: This does not meet the requirements of the Full Survey as identified in [25.02\(a\)](#).

- 4) The system will perform a Boat Path Course centreline self-validation and provide the following as a minimum:
 - Width – Centreline Axis to G1/G2:
 - Width – Centreline Axis to G7/G8:
 - Distance – Axis to Midpoint G3/G4
 - Distance – Axis to Midpoint G5/G6
 - Width – Centreline Axis to S1:
 - Width – Centreline Axis to S8:
 - Average Width – S1, S3, S5, S7:
 - Average Width – S2, S4, S6, S8:
 - Average Width – S1, S2, S3, S4, S5, S6, S7, S8:
- 5) The Homologator and driver shall verify the centreline by driving through the course on the right-hand side, in each direction, and verify that the display deviations in each direction are similar.
- 6) During the competition, the Homologator may need to re-validate as necessary depending on conditions.
- 7) For RTK-GPS, the GPS antenna must be attached to the pylon but may be offset from the pylon based on the manufacturer's recommendations.
- 8) The Homologator or designee will measure any antenna offset and validate that it is correctly entered in the system. The RTK-GPS Settings can only be changed under the direct supervision of the Homologator or designee.

25.07: Video Jump Measurement System:

a) Approved Video Jump Measurement System(s)

- 1) All Video Jump Measurement System (VJMS) must be approved by the IWWF Technical Committee. The World Waterski Council may approve systems based on video technology provided that proper verification and proof is given to the World Waterski Council at least 60 days before the proposed use.
 - * **SplashEyeFly** – Photogrammetric system using a drone and fixed ground targets (Donal Connolly)
 - * **SplashEye Jump Classic** – Photogrammetric system using one camera and grid buoys (Donal Connolly)
 - * **Video Tape Measure** – Photogrammetric system using one camera and grid buoys (Chip Shand, USA)
 - * **Boettcher** – Two-camera trigonometric system (Olaf Boettcher, GER)
 - * **Loreto** – Two-camera trigonometric system (Felix Loreto, PER)
 - * **Corson** – Photogrammetric system using one camera and grid buoys (Bob Corson, USA)
 - * **Japan** – Three-camera trigonometric system (developed in Japan)

b) Measurement Definition

The VJMS shall calculate jump distance as follows:

- * Distance measured from the waterline directly below the center of the top edge of the ramp
 - * To the first point of impact of the skier on the water surface closest to the ramp plus 2.1 meters
- The point of impact is defined as the first point on the water surface touched by the skier upon landing.
Note: The additional 2.1 m corrects for earlier systems that measured distance to the landing plume rather than first point of impact.

c) Pixel Resolution Accuracy

The VJMS setup must be configured so that the maximum change in calculated jump distance resulting from a one-pixel movement—in either horizontal or vertical screen directions - does not exceed:

- * Class R events: 10 cm
- * Class L events: 15 cm

Existing video setups may be evaluated against this standard by systematically moving grid marker buoys (reference points) and simulated landing markers across adjacent pixels and observing the resulting calculated distance changes.

Such evaluations must be conducted throughout the expected operating range of the system.

d) Setup Verification Requirements

For a VJMS System to be approved, the system software must check for all the following conditions as part of the VJMS setup:

- 1) Image Positioning – Setup and Reference (check) buoys must be located within the central 30° of the camera field of view.
- 2) Coordinate Accuracy - Difference between x coordinate of survey position and verified position (assuming homologation axis is ST/MT) ≤ 0.10 m
- 3) Absolute Position Error - Absolute distance between the surveyed position and the verified position must be ≤ 0.40 m.
- 4) Ramp Distance Accuracy - Difference between the distance to the ramp from the verified position and the surveyed position must be within the tolerance defined in these rules.

e) Buoy Visibility and Monitoring

All buoys used during the VJMS setup process must:

- * Remain in position
- * Be clearly visible throughout the jump event

The VJMS must provide a function that displays the original setup markers on the buoys, allowing judges to monitor system stability. It is recommended that these markers remain visible during jump measurements. These markers serve as a visual reference to detect potential camera drift and determine whether system adjustment is required.

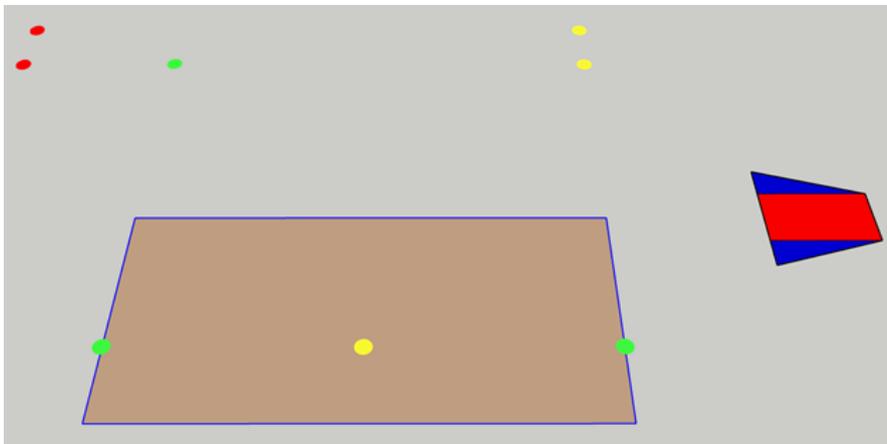
f) Setup Verification Procedure

A VJMS setup must be verified before it may be used to measure jumps.

Verification confirms that the system has been correctly configured and is ready for accurate measurement.

Verification process:

- * A reference (check) buoy shall be measured and compared to its surveyed coordinates.
- * The reference buoy:
 - * Must not have been used in the original setup
 - * Must be located within, or on the boundary of, the verified grid
 - * Must be on the ramp side of the 15MT–15ET line
 - * Must be between 23m and 35m from the 15MT–15ET line



The VJMS shall prompt the operator to mark the reference buoy on screen. The system shall automatically compare the displayed physical position with the known surveyed coordinates and confirm whether the setup is within tolerance and approved for use.

g) Field Validation by Officials

The Homologator or Chief Judge may independently confirm correct VJMS operation by:

- * Measuring the distance from ramp center to the reference buoy,
- * Subtracting 2.1 m and comparing the result to the surveyed ramp-to-buoy distance.

The difference must not exceed:

- * 10 cm for Class R events
- * 15 cm for Class L events

