

LAND BASED JUDGING, RULES, PROTOCOLS, AND TRAINING MEMO EFFECTIVE JUNE 27, 2025

Please note: These are Rule changes and Protocols necessary to implement Land Based Judging, as approved by the World Barefoot Council. Following is also a Training Memo prepared by the WBC Technology Committee to assist organizers in putting on a tournament using LBJ.

213: **EVENT** JUDGING CREW

(A) Jump Event

- (1) WBC World Rankings List (RL) Tournament. The minimum qualifications shall be:
 - (a) Boat Judge— Level 3
 - (b) Video Judge 1— Level 3
 - (c) Video Judge 2— Level 4
- (2) WBC Record Capability (RC) Tournament. The minimum qualifications shall be:
 - (a) Boat Judge— Level 3
 - (b) Video Judge 1— Level 2
 - (c) Video Judge 2— Level 3
- (3) World Barefoot Championships. The minimum qualifications shall be:
 - (a) Boat Judge— Level 1
 - (b) Video Judge 1— Level 1
 - (c) Video Judge 2— Level 1

(B) Slalom and Trick Event.

- (1) WBC World Rankings List (RL) Tournament. The minimum qualifications of the **Event** Judges shall be two Level 3 Judges and one Level 4 Judge. Combinations of other level judges are allowed; however, there shall never be more than one level 4 **Event** Judge. For single-judge events, there shall be a single Level 1 or Level 2 **Event** Judge.
- (2) WBC Record Capability (RC) Tournament. The minimum qualifications of the **Event** Judges shall be one Level 2 Judge, one Level 3 Judge, and one Level 4 Judge. Combinations of other level judges are allowed; however, there shall never be less than one Level 2 **Event** Judge or more than one Level 4 **Event** Judge. For single-judge events, there shall be a single Level 1 or Level 2 **Event** Judge.
- (3) World Barefoot Championships. There shall be three Level 1 Event Judges. A single Level 1 Event Judge is permitted to replace the three **Event** Judges in the towboat when necessary to attain and maintain a minimum of 72 kph/44.7 mph through the course as required in 1501(A).

(C) The Chief Judge may use Land-Based Judging so long as the tournament complies with the Land-Based Judging Protocols published on the WBC Website.

RULE 216, AMENDED TO ACCOUNT FOR LBJ

216: Optional 4th Judge

(A) Appointment.

1. In any event the Chief Judge may appoint a 4th Judge from the appointed or reserve judges.
2. In any event with Land Based Judging the Chief Judge must appoint a 4th Judge.

(B) Duties – Not Land Based. The 4th Judge shall pursuant to Rule 213 and Rule 216:

1. View a live video feed of Tricks or Slalom event in a private location and record each pass.
2. Record and judge each pass without consulting or receiving input from others.
3. Be alone while judging. Only the Chief Judge, Assistant Chief Judge, Chief Scorer and Video Operator may be present.
4. Record and judge the event in real time without the benefit of replay or slow motion.
5. Make the score sheets immediately available to the Chief Scorer, Chief Judge or Assistant Chief Judge.
6. Clearly mark each scoresheet as being from the 4th Judge.

(C) Duties Land Based: In the case of Land Based Judging, the 4th Judge shall:

1. Judge the event in real time in the boat.
2. Record and judge each pass without consulting or receiving input from others.
3. Make the score sheets immediately available to the Chief Scorer, Chief Judge or Assistant Chief Judge.
4. Clearly mark each scoresheet as being from the 4th Judge.
5. Serve as the communicator judge and make all decisions necessary for a boat judge, such as speed, course and re-rides but shall consult with the Land-based Judge (or the Chief Judge) about whether the skier is entitled to a re-ride.

(D) Score Sheets. The Score Sheets of the 4th Judge shall be:

1. Used only to provide consensus if the scorer cannot determine consensus from the score sheets of the three other Event boat Judges. If used to provide consensus, the scorer shall

indicate on the boat judges' sheets where the 4th Judge's sheets were used to achieve consensus.

2. Whenever used, attached to the ~~other Event~~ ~~boat J~~ judges' sheets for review.

(E) No Consensus. If the scorer(s) are unable to achieve a consensus using the 4th Judge's sheet, then such score sheet shall not be used and the Chief Judge, Assistant Chief Judge, or another judge appointed by the Chief Judge may review the video to determine the final score.

LAND-BASED JUDGING PROTOCOLS (REFERENCED IN RULE 213(c))

The Land-based Judges shall

Have an independent judging environment free of distractions and observers.

Have total independence in judging and scoring.

Score the sheet after each pass.

Make no changes to sheets once they commence scoring.

Pass the sheets to the scorer after each pass.

Have a two-way radio feed with the boat, and if practical, the announcer.

Have sound available from the live feed, if practical.

Consult with the 4th Judges, when requested, about whether the skier is entitled to a re-ride.

The Scorers shall

Review the sheets of each land-based judge and correct any errors, seek needed clarification, and determine if there is consensus.

In the event of no consensus, obtain the sheets of the 4th Judge and determine if consensus can be achieved.

If there is still no consensus, arrange for video review by the land-based judges as necessary. Further review shall be under the direction of the chief judge.

Note: Each step in the process shall be marked with different color pencil/ink.

The Fourth Judge shall:

- Communicate the skier's calls and instructions.
- Communicate significant or relevant changes in water conditions.
- Seek instructions from the land-based judges regarding re-rides or conditions that may have affected the skier's performance that are not evident to the land-based judges.
- Repeat the skier's call to the drivers.
- Be aware of matters that may affect the skier's safety or performance.
- Communicate requests for re-rides initiated to the Land-based Judges (or the Chief Judge).

Video Operators

- Video operators need to be comprehensively trained.
- Video operators must meet a standard that is to be defined.
- Video operators are to be evaluated.
- Video operators will require greater recognition for their contribution.

Technical Requirements

1. High quality ship to shore equipment providing unbroken 1080 hd feed from the boat to the judges for each event to be judged.
2. 1080p cameras or better.
3. A separate room to house three judges without interruption or distractions.
4. A monitor or monitors sufficiently large and of a quality that all judges can view the skiers' runs clearly.
5. Proper lighting to facilitate review of the screen.
6. Qualified Video operator with sufficient expertise to maintain RC and RL quality vision and reception.
7. A method of constant communication with the communicator judge.
8. Filmed in a landscaped aspect ratio.
9. Filmed, transmitted and displayed with a minimum of 24 frames per second and a maximum of 60.
10. A back up copy recorded from the boat.

LAND-BASED JUDGING, TRAINING AND REFERENCE MEMO

Welcome to land based judging. This document will help you setup your tournament with the best outcoming for your event at minimum cost, increasing time, flow and providing a supportive judging environment for everyone. Most of this contains suggestions which may or may not be helpful depending on your circumstances.

First, you will need know what basic equipment is required to judge on land to get the best result from the boat to the final posted score.

Equipment (based on today's technology)

- One DJI SDR video Transmission Combo /receiving unit
- One HD video camera (Two Optional)
- One mono pole to hold the video camera
- HDMI cable from DJI Transmitter to video camera
- 12v Power cable from Boat battery to DJI Transmitter
- 40-inch TV for the land base Judges
- 40-inch TV in the Scoring room (optional)
- 40-inch TV out of sectators (optional)
- HDMI cable 2m
- 4-way HDMI splitter box
- 2 x length Cat 7 cable (optional)
- 2 x mono clamp Suction cups
- Laptop
- Judging Room area
- Scoring input Room area
- 2 x 40cm plastic tube 50 mm wide to connect to the ski pole.

Site Location up

Your DJI ship to shore system is the core technology of this system. It can be set anywhere around the event lake, at the end or in the middle. It has over a kilometre of range across the water and does not need line of sight for the first 400meters.

The land-based DJI receiver should be located next to or in the scoring room with a HDMI cable running to a HDMI splitter that then can then feed to several TVs/monitors where convenient.

One of these feeds would connect to the Judging room.

For the best DJI receiver unit result is in a room that has a grass window with the DJI unit suction cupped to the glass on the inside viewing the lake, keeps it weatherproof and minimise cable lengths.

Boat setup

Boat setup is now very simple since only 3 people need be in the boat. There will be much more room to navigate around the boat.

One Driver, one Judging Communicator and a video operator.

The DJI transmitter is suction cup onto the boat's dashboard centred just under the front windscreen protected by the weather.

A 12volt power supply cable hard wired runs out for the glover box from the Boat battery to the Transmitter.

The HDMI cable comes out of the DJI transmitter to the Camera pole which then has a connection to the video camera.

Plastic cable ties are applied round the pole to secure the HDMI cable connection.

Secured is a plastic tube to the ski pole for the cameras mono pole to sit in while not in use.

You are now ready to go.

Land base Judging Room setup

Judging room can be of any size as long it is a zoned off area large enough to accommodate 3 land-based judges seated in front of a TV Monitor. Nice clear lighting with a bench top and to 2 Walkie Talkies. One for the officials and the other on a different channel for the audience.

Scoring room setup area

The scoring room should be as close as possible to the judging room. Ideally only a wall dividing these two areas. With a small hole in the wall to send the sheets thought to the scorers.

A door in the dividing wall for communication and support if required.

The scoring room is of a bigger size so to accommodate for a long 4meter bench to have a clear workflow.

Also, this area will can house everything to run the video link (Optional).

The DJI video receiver and a TV is situated in this room so you are able to check that the DJI system is being received from the boat and the officials can use the TV to view all the events and check of any tournament issues.

Video review area

There needs to a small area that houses a laptop and a small screen to download the tournament Video SD cards and any videos or records that need reviewing if required.

Boat communicator

Boat judging communicator role is to radio back to the land-based Judges the skier requirements and serve as the 4th judge.

The land base judges will call though the communicator for the skier's instruction's and the 30 second and 10 second calls.

Judges the pass and otherwise following the rules.

Video Operator

Video operators play a big role and attached is their duties and level experience that is required. They serve as the video operator and take care of the ropes and handle change overs.

Land base Judging process

Once all the instructions have been completed the 3 judges will judge the pass.

At the end of each pass, the nominated judge will call for pencils down and wait for other 2 judges to confirm that they are ready to score their sheets in red.

The Nominated Judge will then call out trick by trick or crossing by crossing its values and credit for preliminary score.

Once completed the pending scores will be radioed back to the Boat/Dock/PA.

The scored sheets will then be sent to the scoring room through the hole in the wall to be processed.

All judges judge according to the Rules.

Scoring input process

Scoring can be operated by 2 or more people.

The scorer receives the judges' sheets which have been pre scored. Then are checked for the correct scores.

Then the scorer makes inputs to the scoring program and sends to the live scoring on the EMS. Once the event is complete the event sheet is uploaded to EMS and prints off the sheet Chief Judge then signs off ready to be posed.

Equipment examples and setup

Below are hardware suggestions based upon currently available technology.

HDMI Cable Connections Best to use a higher quality



DYNAMIX Cat6 UTP Patch Lead - Slimline Snag less Moulding



HDMI Extender Splitter Up to 165ft 1 in 4 Out Over Cat5e/6/7 HDMI Repeater Ethernet Sender Transmitter Receiver Support 1080P



DJI SDR Transmission Combo Setup with suction cupped to window
Features

- Complete Receiver/Transmitter System
- SDR Tri-Bandwidth Technology
- DFS, 2.4 & 5.8 GHz with Auto Hopping
- Up to 1080p60 Resolution
- Range of up to 1.9 Miles
- Broadcast & Control Modes



Monforte Element MII Aluminium Monopod (Black)



DJI Transmitter suction cupped in Tournament boat by the dashboard



Panasonic HC-VX1GN 4K Camcorder

- 1080p60 Video and 25.9MP Stills
- 1/2.5" 8.57MP BSI MOS Sensor
- 24x Optical Zoom, 48x Digital iZoom
- 5-Axis O.I.S., 3.0" LCD Touchscreen
- Built-In 2.4 GHz Wi-Fi, Precise Focus
- USB-C 2.0 and Micro-HDMI Ports



Judging room examples

