

Norwegian Athletic Federation

Ullevaal stadion
Sognsveien 75 J, 0840 Oslo, NORWAY
E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

“Stavanger Marathon”

Marathon – 42 km
Stavanger, Norway
31.August 2024

COURSE MEASUREMENT REPORT

- REPORT FOR INTERNATIONAL CERTIFIED COURSE -

INFORMATION ABOUT EVENT AND COURSE	
Event: Stavanger Marathon 2024	
Technical Organiser: GTI Friidrettsklubb	
City/Place: Stavanger, Norway	
Date of Arrangement: 31.August 2024	
Date and time for measurement: 1.July 2024 – 11:50 am	
Measured distance(s): 42 km	
Length of calibration course: 306 m	
Terrain: Flat <input type="checkbox"/> Slightly hilly <input type="checkbox"/> Hilly <input checked="" type="checkbox"/> Terrain <input type="checkbox"/>	
Type of course route: Closed loop <input checked="" type="checkbox"/> Back and forth <input type="checkbox"/> A to B <input type="checkbox"/> Other <input type="checkbox"/>	
Race surface: Asphalt and firm gravel	
Elevation Start - Finish: 0	
Description of start: Stavanger city centre – statue Alexander Kielland	
Description of finish: Same as start	
Distance, in a straight line, between start & finish: 0 m	
Start and Finish marked: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Km-markings: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Measurement direction: Running direction <input checked="" type="checkbox"/> Opposite running direction <input type="checkbox"/>	
National record can be approved: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CONTACT INFORMATION		
	Measured by:	Organizer:
Contact person:	Erling Hiorth	Johannes Økland
Phone:	+47 91337338	+47 472 38 439
Email:	Erling.hiorth@gmail.com	lop@gti-friidrett.no

It is hereby confirmed that the course has been measured by an A- or B certified international certified course measurer from Norwegian Athletics. The course is measured in accordance with AIMS and Norwegian athletics regulations, and the distance(s) has the minimum reported length(s). The survey is valid for 5 years, except if the route is changed.

15.July 2024 *Erling Hiorth*

Date Signature by Course measurer Date Signature by AIMS

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CALIBRATION COURSE AND PROCEDURE – Permanent marked 11.June 2022	
Length of measuring tape (steel measuring tape only)	50 m
Length of calibration course 1st measurement	306,72 m
Length of calibration course 2nd measurement	306,72 m
Possible 3rd measure (max. 1 cm diff per 100m 1st and 2nd)	No
Average of measurements before adjustments	306,72 m
Temperature (road or measuring tape)	17 C
Adjustment cf. D-(D*(1+(temp-20)*0,0000115)	- 0,011 m
Measured calibration distance after adjustment	306,71 m
Distance from start/finish to calibration distance	2,8 km

CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie 2 counts of 300m and 3 count of 400m)						
	Pre-measurement:			Post measurement:		
	Date and Time: 1.July 11:50 am			Date and Time: 1.July 5:45 pm		
	Start	End	Diff.	Start	End	Diff.
1st measure	26800	30331	3531	41600	45129	3529
2nd measure	30331	33860	3529	45129	48658	3529
3rd measure	33860	37391	3531	48658	52188	3530
4th measure	37391	40921	3530	52188	55717	3529

	Pre measurement	Post measurement	
Average (1+2+3+4) / 4	3530,25	3529,25	Today's constant. Either highest or average of before and after measurement
Constant 1 km	11510,080	11506,82	
Addn. +1‰	11,510	11,507	
Measurement constant (rounded)	11521,59	11518,327	11520

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MEASUREMENT PROCEDURE		
Measurement constant	11520	
Measured Distance	Counter	Description of place
	79000	Start statue Alexander Kielland
5001	136610	Intermediate – Start 3-Sjøers løpet
21090	379567	Intermediate – Finish 3-Sjøers løpet – closed loop
4886	435851	Turning point – “Grannessletta”
11207	564958	Finish Alexander Kielland – closed loop
42.184 m		Total measured without adjustments
6 m x 2 = 12 m	Steel tape	Turning point to be moved +6m further out
12 m		Total measured adjustments
42.196 m		Total measured course

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CONCLUSION OF MEASUREMENT

1. General information about race course and start/finish
 - Start and finish line is by the Alexander Kielland statue downtown Stavanger
 - The course consist of 2 pre-certified half marathons – certificates attached
 - This report is a full new measurement to obtain a separate certified 42 km and to including km-marks 1-42 km
 - Minor variations to previous measurer 2x 21 km verified and adjusted for
2. Measurement of calibration course
 - Tjensvoll Gravlund, 2,8 km from start, straight / flat asphalt walking path
 - Measured in accordance with procedure, 3 persons, both ways independant
 - Fixed points at both ends, no adjustment on ground, temp calculations done
 - Permanent approved calibration course (measured by A- and B measurer)
3. Calibration of bicycle
 - Calibrated in accordance with procedure, 4 measures, deviation 2 counts
4. Measurement of the course
 - From start to finish continuous, closed loop measured once
 - Intermediate measurement done for the 2 separate half marathons
5. Post calibration of bicycle
 - Same procedure, 4 measures, deviation 1 count
6. Course adjustments
 - Due to constrution work the pre-certified Svg 21 km has become -4m shorter
 - The other pre-certified closed loop 21 km “3-Sjøersløpet” is -5m short and approved based on start line for that separate race moved 5 m backwards
 - Turning point at “Grannessletta” shall be moved +6m further out to increase course length by +12m
7. Overall length of the course
 - The course is not shorter than marathon
8. Additional info
 - The organizer will set up cones/fences on all course separations and corners
 - 3 critical course separations after 3,3/25,8 km, 6,5/27,6 km and 30,9 km
 - Km marks marked on ground by measurer

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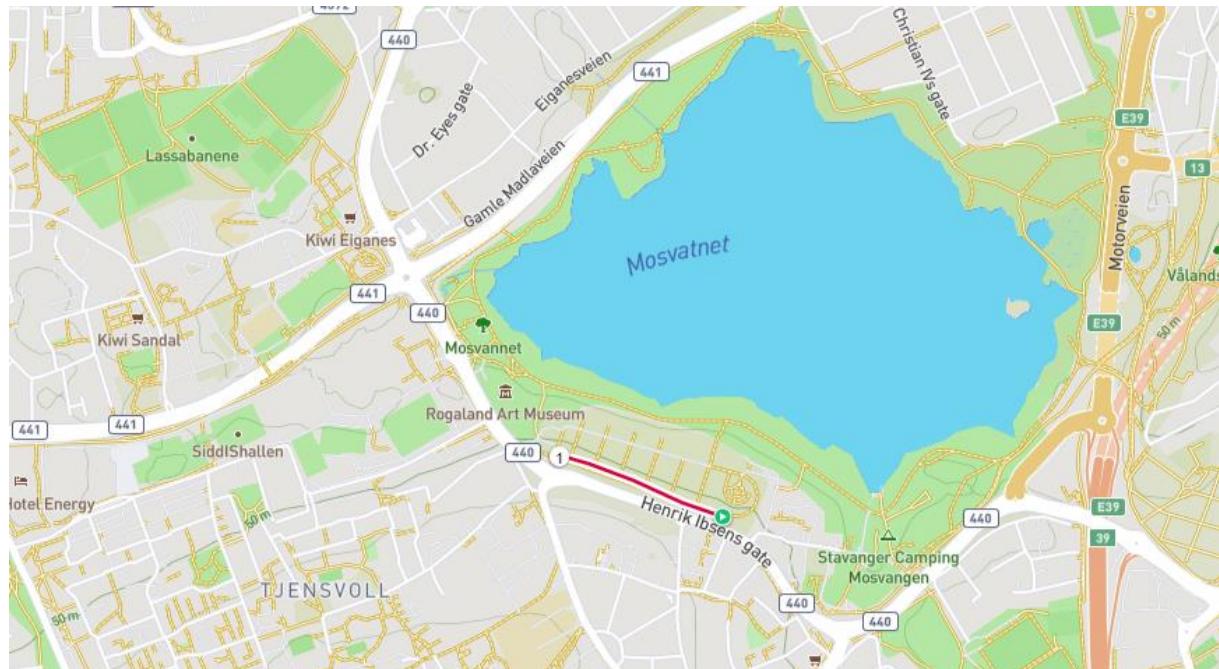
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CALIBRATION COURSE MAP

The calibration course is 2,8 km from start/finish

Part of the race course is around the lake below and continues west / left side of map – course map next side



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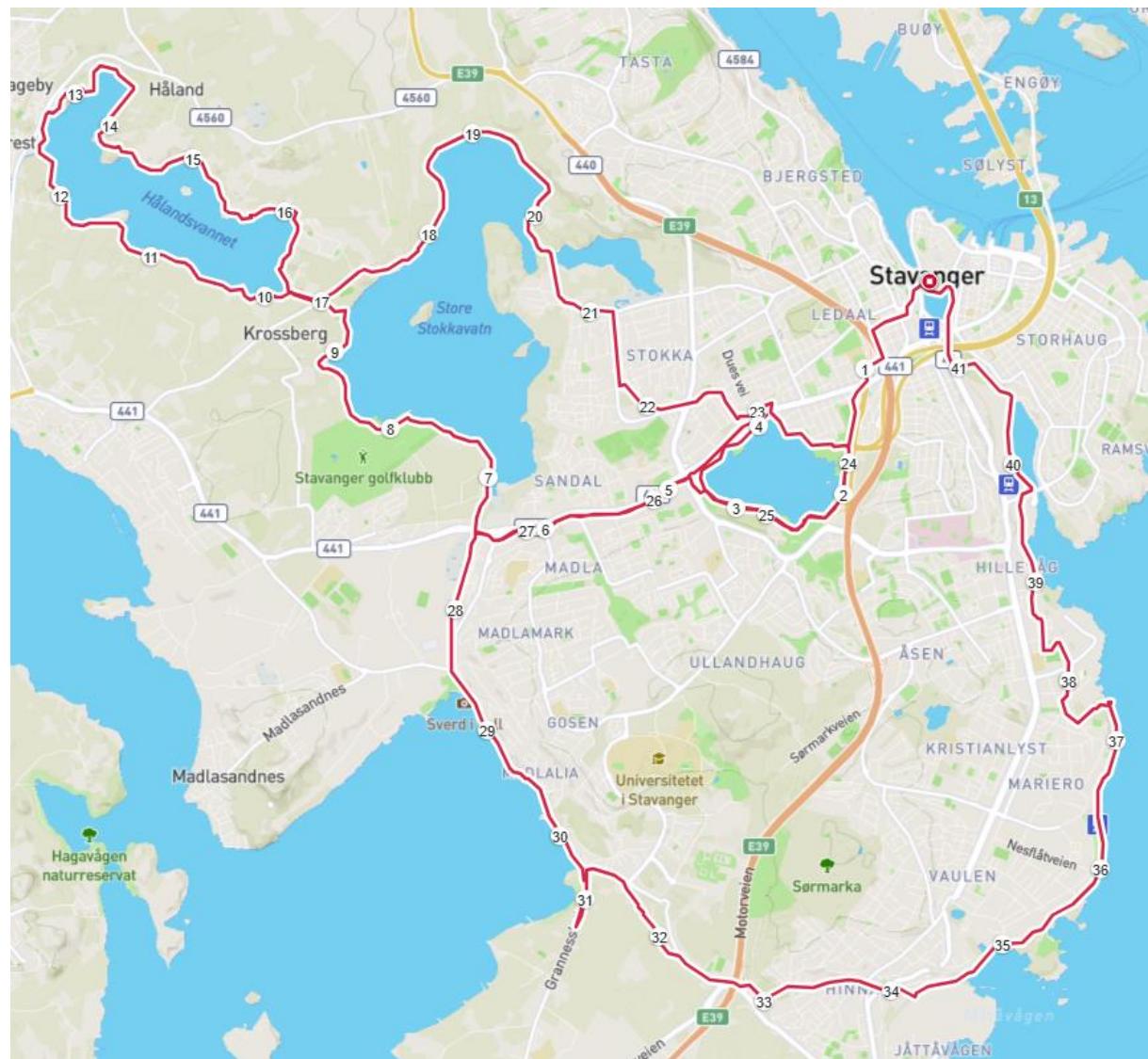
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COURSE MAP & DESCRIPTION

Start and finish Stavanger city centre

Marathon turn right after 6,5 km and follow the “3-Sjøersløpet”. Then left upon return to same point at 27,6 km



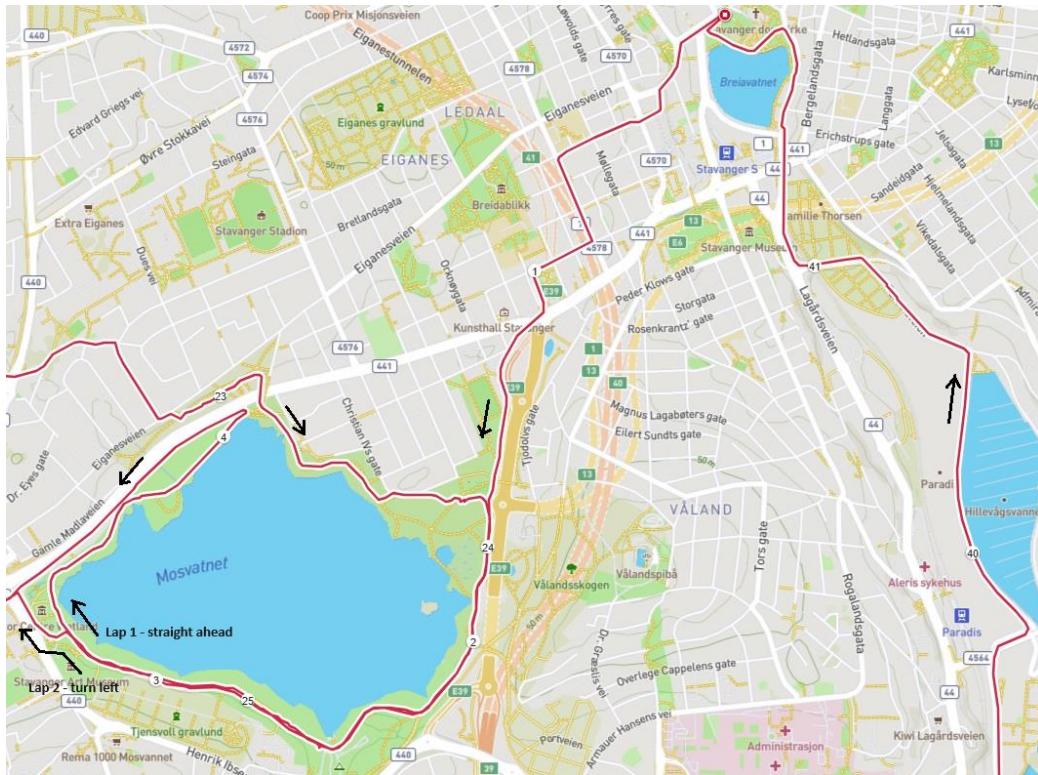
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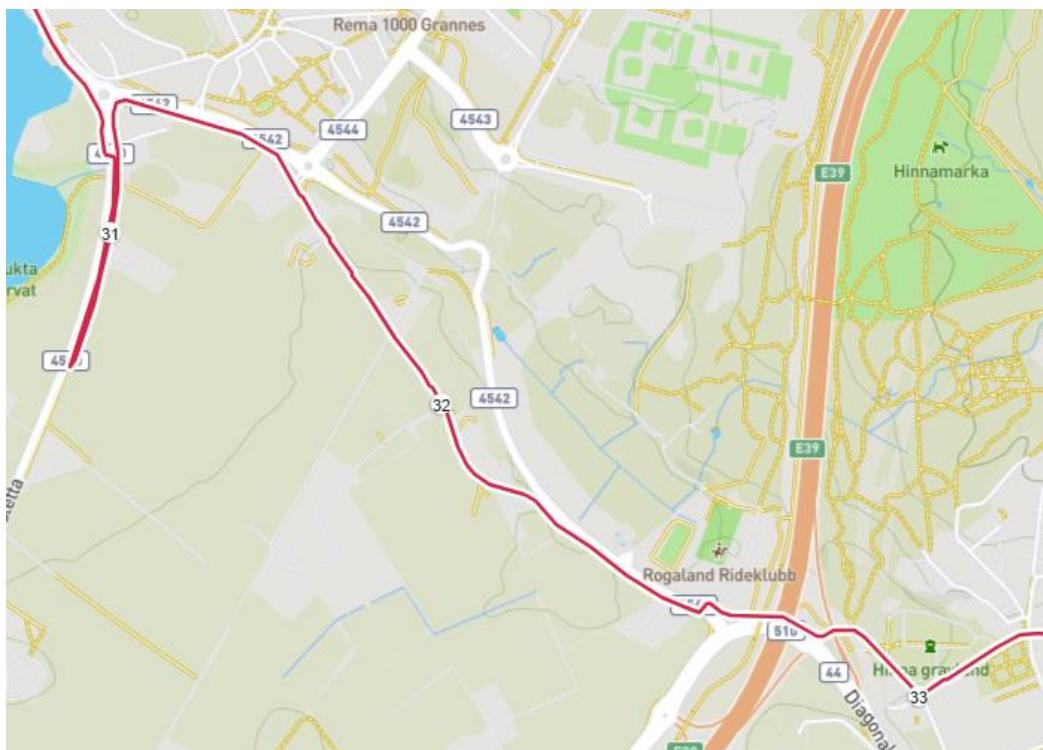
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City area & Mosvannet – critical point at 3,3/25,8 km



Turning point at 30,9 km



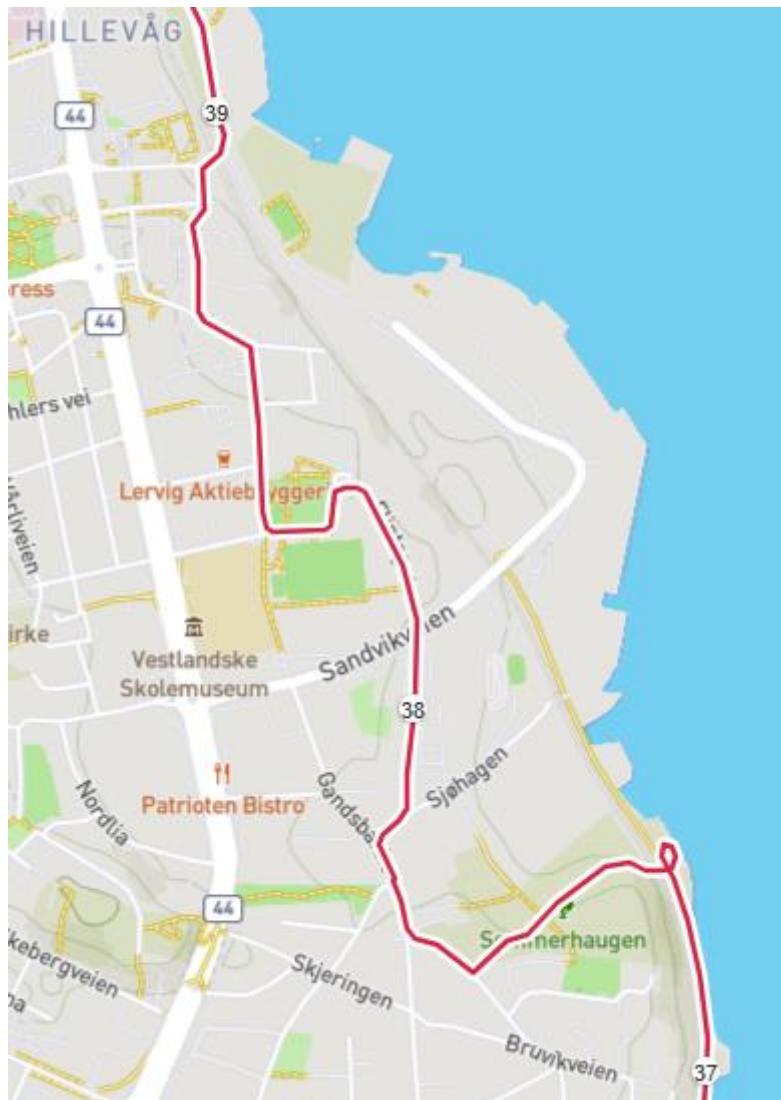
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Hillevåg



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Start / finish



Turning point Mosvannet after 4 km



Grannessletta - turning point 180° after light pole “07” = 6 m further out from light pole

Turning point below shall be moved +6 m further out = 291 m from edge below as marked



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Kirkegårdsvæien – pedestrian crossing – after 41 km



Kongsgata - 45° crossing from kum to other side – after 41,5 km



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Reference documentation

Certificates “Stavanger 21 km” and “3-Sjøersløpet 21 km”

WORLD ATHLETICS

INTERNATIONAL MEASUREMENT CERTIFICATE

Name of Race Stavanger Half Marathon	Distance 21097.5m
Location Stavanger	Country NOR
Date of Race 31.08.2024	Date of Measurement 28.05.2024
Separation 0	% of race distance
Name(s) of the measurer(s) Erling Hiorth	World Athletics – AIMS Grade B
Country NOR	Expiry Date 31.12.2028
International Measurement Administrator Hugh Jones	Registered On 04.06.2024
<p>Signed </p> <p>This certificate certifies that the length of the above road race has been established by an accredited World Athletics – AIMS Grade A or B measurer employing the method of a bicycle calibrated with a “Jones Counter”. It remains valid for 5 years subject to the course defined in the full measurement report submitted by the measurer being unchanged in any way. Any modifications to the course, however minimal, will nullify this Certificate and require a new measurement to be undertaken. Possession of this certificate does not indicate any sanction of the race by World Athletics or membership of AIMS.</p>	
<p>In cooperation with</p> <p>AIMS Association of International Marathons and Distance Races</p>	

WORLD ATHLETICS

INTERNATIONAL MEASUREMENT CERTIFICATE

Name of Race 3-Sjøersløpet Half Marathon	Distance 21097.5m
Location Stavanger	Country NOR
Date of Race 12.11.2022	Date of Measurement 11.06.2022
Separation 0	% of race distance
Name(s) of the measurer(s) Peer Jensen	World Athletics – AIMS Grade A
Country DEN	Expiry Date 31.12.2026
International Measurement Administrator Hugh Jones	Registered On 20.07.2022
<p>Signed </p> <p>This certificate certifies that the length of the above road race has been established by an accredited World Athletics – AIMS Grade A or B measurer employing the method of a bicycle calibrated with a “Jones Counter”. It remains valid for 5 years subject to the course defined in the full measurement report submitted by the measurer being unchanged in any way. Any modifications to the course, however minimal, will nullify this Certificate and require a new measurement to be undertaken. Possession of this certificate does not indicate any sanction of the race by World Athletics or membership of AIMS.</p>	
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