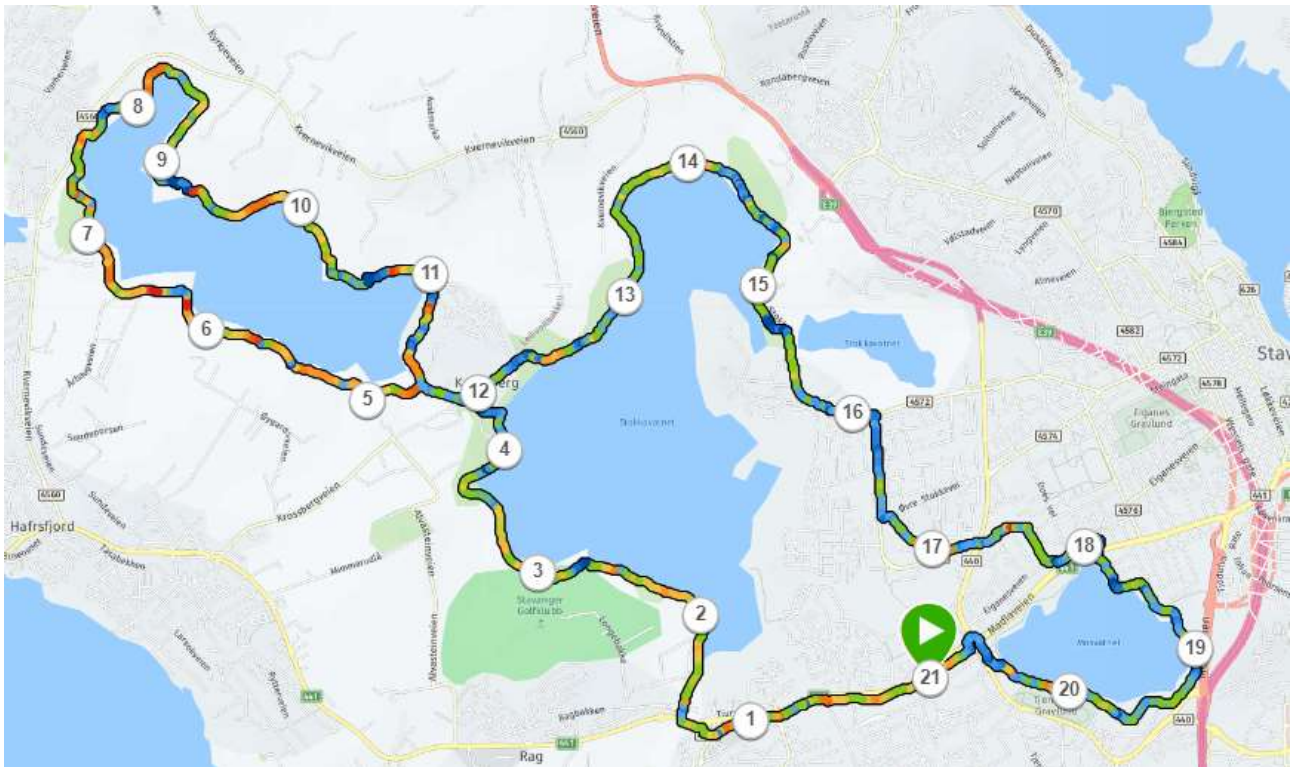


COURSE MEASUREMENT REPORT

3-Sjøersløpet 2022



SUMMARY SHEET

EVENT: **3-SJØERSLØPET**

LOCATION: **STAVANGER, NORWAY**

DATE: **12 NOVEMBER 2022**

Promoting Organisation: GTI Friidrettsklub

Name & Address of race director: Johannes Økland
GTI Friidrettsklub, PB 478, Sentrum,
N – 4002 Stavanger, Norway

Email: lob@gti-friidrett.no

Distance: **Half marathon course is not less than 21,097.5 m**

Measured by: **Peer Jensen, Denmark**

Date: **11 June 2022**

Measurement method: **Jones counter (counting backwards) mounted on bicycle wheel**

Elevation, if not same, of: START 0 m FINISH 0 m
Distance, in a straight line, between start & finish: **5 m**

Description of the Course

- i) Terrain: **hilly**
- ii) Race surface: **tarmac and gravel roads**
- iii) Course configuration: **closed loop**
- iiii) Start point: **Bicycle Road outside Stavanger Forum Expo 5 m before finish point**
- iiii) Finish point: **Bicycle Road outside Forum Expo at lamppost outside gate 3**

Measurement Details

- i) Section of road available: **Bicycle roads must be used if there is one. In the small roads (very short part of the course) the entire width is available. Most of the course is gravel roads round the 3 lakes.**
- ii) Line to be taken at turns: **Shortest possible route.**

SIGNED: ... *Peer Jensen* ... DATE: 2022-06-20

STEEL TAPING DATA

EVENT: **3-SJØERSLØPET**
LOCATION: **STAVANGER, NORWAY**
DATE: **12 NOVEMBER 2022**

Calibration course

Name of calibration course: Cemetery road along Henrik Ibsens Gate – se map.
City/town and State: Stavanger, Norway, about 500 m from the start and finish line.
Date: 11 June 2022
Start time: 11:00
Finish time: 11:30
Pavement temperature: Start 17 °C Finish 17 °C Average 17 °C

Measurements and calculations:

First measurement. 50.00 m x 6 = 300.00 m + 6.72 m
Second measurement. 50.00 m x 6 = 300.00 m + 6.72 m
Average raw (uncorrected) measurement of course 306.72 m
Temperature correction.
Correction factor = $1 - (3 \times 0.0000115) = 0.9999655$
 $306.72 \times 0.9999655 = 306.71$ m
Final (adjusted) length of calibration course 306.71 m

Pre-measurement

Date/Time 11 June 2022 11:40
Temp. 17 °C
Start End Reading
864400 867733 3333
867700 871031 3331
871000 874330 3330
874300 877632 3332

Average 3331.50

Working Constant 10862/km
+ 1 ‰ 11/km
Pre-measurement constant 10873/km

Post-measurement

Date/Time 11 June 2022 14:20
Temp. 17 °C
Start End Reading
121600 124931 3331
124900 128232 3332
128200 131531 3331
131500 134831 3331

Average 3331.25

Working Constant 10861.24/km
+ 1 ‰ 10.86/km
post-measurement constant 10872/km

Measurement working constant: **10873/km**
Constant for the Day (highest): **10873/km**

CALIBRATION COURSE MAP

EVENT: ***3-SJØERSLØPET***
LOCATION: ***STAVANGER, NORWAY***
DATE: ***12 NOVEMBER 2022***



The calibration course is located about 500 m from start and finish point of the race (outside Stavanger Forum).

MEASUREMENT PROCEDURE

EVENT: *3-SJØERSLØPET*
LOCATION: *STAVANGER, NORWAY*
DATE: *12 NOVEMBER 2022*

Measurement working constant: **10873**

**Measurement of half marathon course. We were measuring in the running direction.
Start 12:10. End 14:10**

Counter	Counts	Distance	Fix point
885000	0	0 m	Finish line lamppost outside Stavanger Forum Expo gate 3
113481	228481	21013.50 m	Finish line lamppost outside Stavanger Forum Expo gate 3

Conclusion: The course is too short (21097.50-21013.50) = 84 m

We went to lunch and measured Stavanger Half Marathon and adjustment possibilities.

Adjustment 1 Mosvatnet longer:

Original course	436800-440862 = 4062 counts =	373.50 m
New course	440862-446904 = 6042 counts =	<u>555.50 m</u>
Longer course		182.00 m

Now the course is 98 m too long

Adjustment 2 Tjensvoll roundabout shorter:

Original course	483800-485887 = 2087 counts =	192 m
New course	485887-486855 = 968 counts =	<u>89 m</u>
Shorter course		103 m

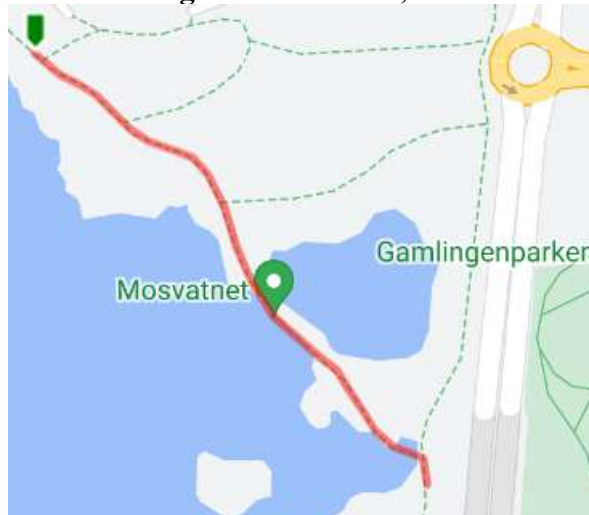
Now the course is 5 m too short.

Start line must be placed 5 m before the finish line

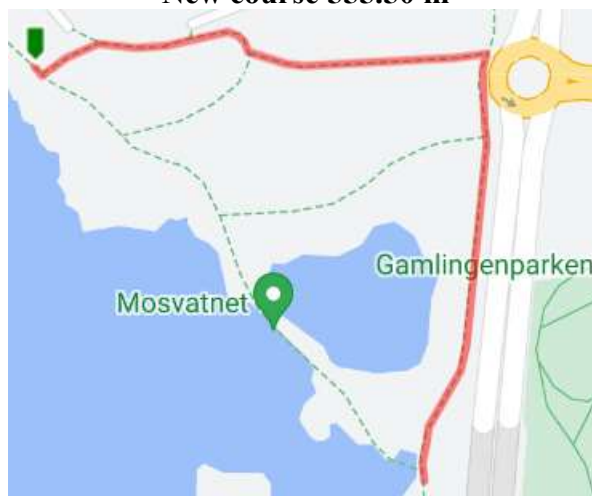
Correction 1 of half marathon course

EVENT: ***3-SJØERSLØPET***
LOCATION: ***STAVANGER, NORWAY***
DATE: ***12 NOVEMBER 2022***

Original course 373,50 m



New course 555.50 m



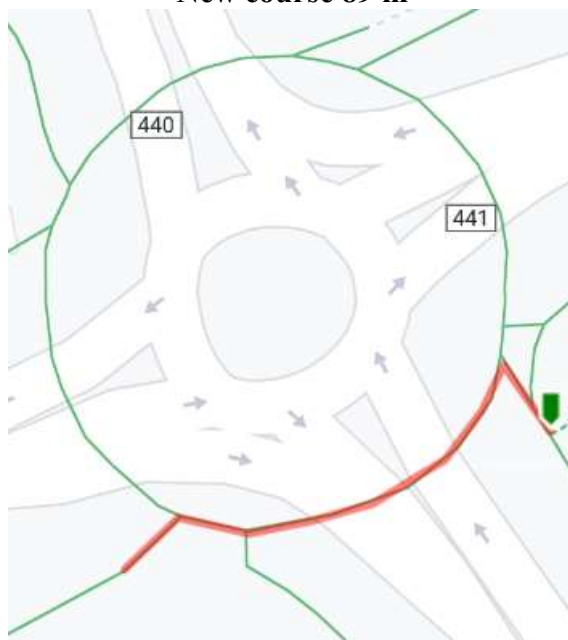
Correction 2 of half marathon course

EVENT: ***3-SJØERSLØPET***
LOCATION: ***STAVANGER, NORWAY***
DATE: ***12 NOVEMBER 2022***

Original course 192 m



New course 89 m



MAP of half marathon course

EVENT: **3-SJØERSLØPET**
LOCATION: **STAVANGER, NORWAY**
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