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COURSE MEASUREMENT REPORT: Podgorica Halfmarathon 2015

I measured the whole course of the „Podgorica Halfmarathon“ from the start to the finish. I was accompanied by Milena Vuksanovic and Kire Sinadinovski with the bike and by the organisers (two cars).

Course measurement data sheet

NAME OF COURSE: Podgorica Halfmarathon 2015

DATE OF THE EVENT: 25. 10. 2015

ADVERTISED RACE DISTANCE: 21097,5 m

LOCATION OF START: Danilovgrad; in front of Trg 9. Decembre Nr. 11

LOCATION OF FINISH (IF DIFFERENT): Trg Repubike in front of Elmag shopping centre (Podgorica)

ELEVATION CHANGE (+/-) start & finish: 0,66 m/km (14m)

SEPERATION between start & finish as a % of the race distance: 85% (18 km)

RACE DIRECTOR (IF COURSE IS MEASURED FOR SPECIFIC EVENT)

NAME: Milan Madžgalj (maraton@t-com.me)
ADRESS: 19. Decembra no 21 81000, Podgorica

TYPE OF TERRAIN; FLAT ROLLING HILLY

ALTITUDE: START: 60 m HIGHEST: 60 m LOWEST: 44 m FINISH: 44 m

TYPE OF COURSE: ~~OUT-&BACK~~ POINT TO POINT ~~LOOP-COURSE~~

The course does not conform to the IAAF separation rule (rule 240)

DETAIL OF CALIBRATION COURSE

NAME OF EVENT: Podgorica Halfmarathon 2015

NAME OF CALIBRATION COURSE: street without name in front of VOLI Centre near the airport

LENGTH OF CALIBRATION COURSE: 400m

CITY: Podgorica

DATE MEASURED: 09.09.2015

METHOD USED TO MEASURE CALIBRATION COURSE: steel tape

HOW ARE START AND FINISH POINTS MARKED: by nails

MEASURING TEAM LEADER:

Rainer Soos
Kanzelweg 8
9220 Velden am Wörthersee
Austria

BICYCLE CALIBRATION DATA SHEET

DATE OF MEASUREMENT: 10.09.2015

LENGTH OF CALIBRATION COURSE: 400m

PRE - MEASUREMENT:

RIDE	START COUNT	FINISH COUNT	DIFFERENCE
1	222000	226562	4562
2	226562	231123	4561
3	231123	235685	4562
4	235685	240246	4561

time of day: 07:00 am

temperature: 14°C

PRE-MEASUREMENT AVERAGE COUNT:

$$\begin{array}{rclcl}
 18246 & : & 4 & = & 4561,5 & = & 11403,75 / \text{km} \\
 11403,75 & \times & 1,001 & = & 11415,15375 & & \text{WORKING CONSTANT}
 \end{array}$$

POST - MEASUREMENT:

RIDE	START COUNT	FINISH COUNT	DIFFERENCE
1	498100	502660	4560
2	502660	507219	4559
3	507219	511779	4560
4	511779	516338	4559

time of day: 10:30 pm

temperature: 16°C

POST-MEASUREMENT AVERAGE COUNT:

$$\begin{array}{rclcl}
 18238 & : & 4 & = & 4559,5 & = & 11398,75 / \text{km} \\
 11398,75 & \times & 1,001 & = & 11410,14875 & & \text{FINISHING CONSTANT}
 \end{array}$$

CONSTANT OF THE DAY: 11412,65125 per km

average of both Working Constant and Finishing Constant = Constant of the Day

COURSE MEASUREMENT DATA SHEET

DATE OF MEASUREMENT: 10.09.2015

CONSTANT OF THE DAY: 11412,65125 per km

START TIME: 08:00 am

TEMPERATURE: 15 °C

FINISH TIME: 09:30 am

TEMPERATURE: 16 °C

Measurement 1:

Start at Danilovgrad → finish at Podgorica

START COUNT: 240756

FINISH: 485646

DIFFERENCE: 244890 → 21457,78m

The halfmarathon will be too long: 360,27m.

We will find a new way at the start in Danilovgrad.

Measurement 2:

Old start 2014 (=finish2009) → streets in Danilovgrad → P1 at Njegoseva

START COUNT 2: 517000

FINISH 2: 523785

DIFFERENCE: 6785 → 594,52m

$21457,78\text{m} - 594,52\text{m} = 20863,26\text{m}$

We need to the new start: 234,24m (2673 counts)

Measurement 3:

Njegoseva (P1) in Danilovgrad → new start (new way)

START COUNT 3: 529000

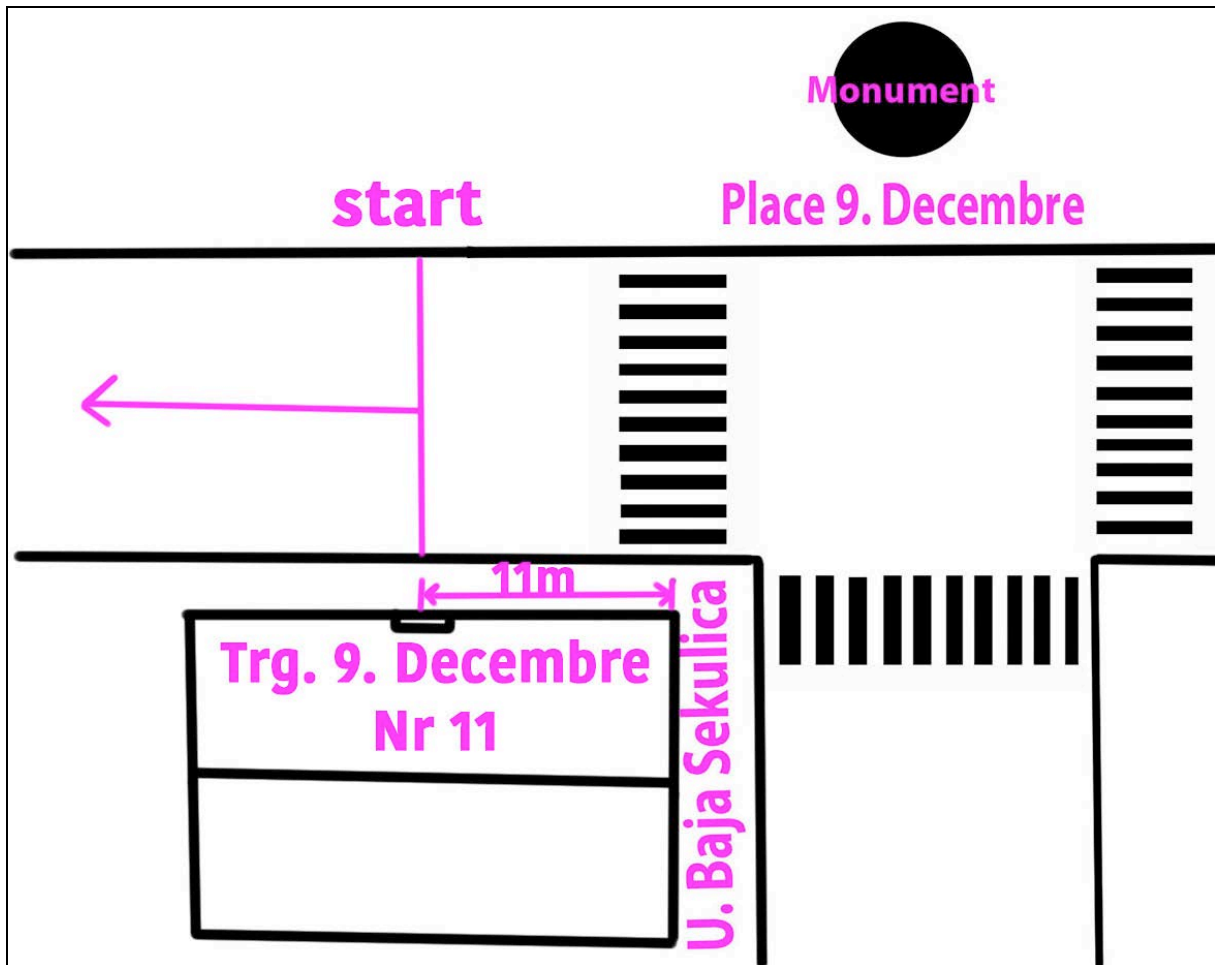
FINISH 3: 531673

DIFFERENCE: 2673 → 234,21m



Description of the course

Start: in front of Trg 9. Decembre Nr. 11 at Danilovgrad



Danilovgrad → U. Njegoseva → Lazara Durovica → Grlic → Lazine → Stologlav → Grbe
→ Njeve Vranicke → U. S.J.Piletica → U. 13. Julia → Millenium Bridge → U. S.Dragojevica
→ bul. Sv.P.Cetinjskog → U. Slobode turning point at U.M.Miljanova → Bul.Sv.Cetinjskog
→ U.Slobode →
finish at Trg (Place) Republike (in front of Elmag shopping centre)



turning point

provisional

IAAF

ROAD RACE COURSE MEASUREMENT CERTIFICATE

Name of Race:	Podgorica Halfmarathon 2015		
Location:	Podgorica	Country:	Montenegro
Date of Race:	25.10.2015	Distance of Race:	21097,5 m
Measured Distance of Course:	21097,5 m	Date Measured:	10.09.2015
Altitude (in metres above sea level)			
Start: 60m	Highest: 60m	Lowest: 44m	Finish: 44m
Type of Course:	Point to point		
Local Race Measurer:	Milan Madžgalj (maraton@t-com.me)		
Adress:	19. Decembra 21, 81000 Podgorica, Montenegro		
Method of Measuring:	Bicycle	Steel tape	
IAAF Approved Course Measurer:	Mag. Rainer Soos (aims.austria@gmail.com)		
Adress:	Kanzelweg 8 9220 Velden am Wörthersee Austria		

This is to certify that the course described above and defined by the attached map has been measured and approved for certification. The course measurement complies with IAAF Rules for Road Race Course Measurement and the measured distance is not less than the official distance for the event. It remains valid for five years. Any modification of the course, however minimal, will require a new official measurement.

The course does not conform to the IAAF separation rule (rule 240)

Signature

IAAF Approved Course Measurer

10.09.2015

Date