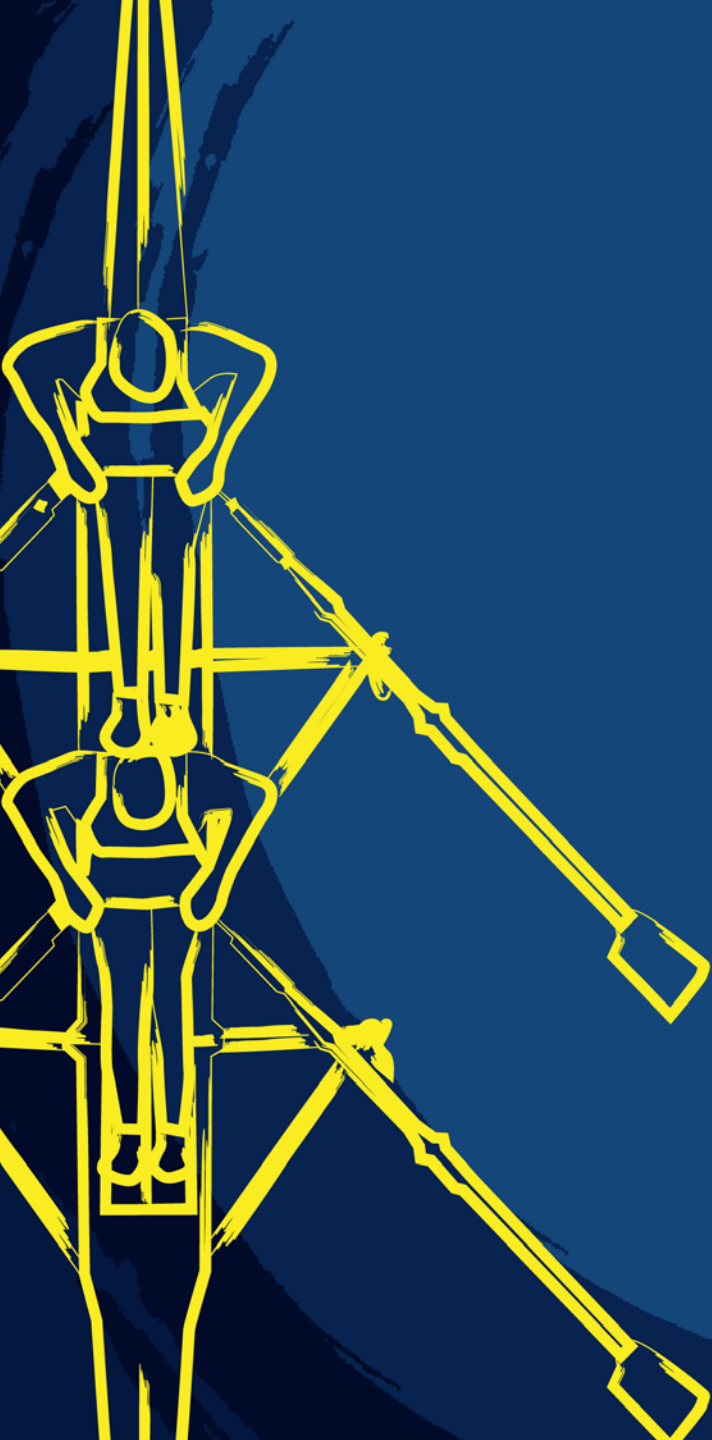


WELCOME!

JOHN BOULTBEE / FISA
EDSON ALTINO / RIO2016
07/11/2014



COACH IN THE SPOTLIGHT

Gary Hay (NZL)

07/11/2014

WORLD ROWING COACHES CONFERENCE RIO 2014



WHO IS GARY HAY

- ▣ Rowed for NZ as a Lightweight in the 80's
- ▣ Coached at school level
- ▣ Coached at one of NZ'S High Performance Centres based out of Christchurch
- ▣ Coached Internationally at Junior / U23 and Elite level

Coaching at World Championships

- ▣ 2008: Junior W4- (Gold)
- ▣ 2009: U23 M2X (Gold)
- ▣ 2010: U23 LW2X(Silver)
- ▣ 2011: W2X (Bronze)
- ▣ 2012: W2X (5th)
- ▣ 2013: W1X (Silver) and W2- (Bronze)
- ▣ 2014: W1X (Gold), LW2X(Gold), W2- (Bronze)



FYRAN CAT400

MIGHTY RIVER POWER

MIGHTY RIVER POWER

HONDA

- ▣ Spent 22 years in the NZ Police: Variety of roles but mainly spent working as a Detective and working in middle management type roles.
- ▣ 10 years spent on an Armed Response Unit.
- ▣ My experience in the Police provided me with a number of skills which I believe has helped in my Coaching: organisation, communication, people skills.

- ▣ No secrets / no magic bullets to the success of Rowing NZ as a whole or with the crews I coached.

- ▣ I Consider myself very fortunate to coach at this level
- ▣ I see myself as being someone at the end of a very long line of people who have helped, assisted and guided the athletes to this point.
- ▣ A large number of people involved in the success that Rowing NZ has achieved.

CREWS

- ▣ In 2014 I Coached Emma Twigg, LW2X and W2-.
- ▣ All 3 crews trained together.
- ▣ All on the same training programme
- ▣ At some stage during the campaign all 3 x crews faced some sort of adversity



- ▣ Coaching -The art of facilitating the performance, learning and development of another (Downey 2003)

MY PHILOSOPHY TO COACHING

- ▣ Structured programme
- ▣ Hard work
- ▣ Individualising sessions

- ▣ Good intensity
- ▣ Keep it simple
- ▣ Expert coaching

- ❑ Creating self belief
- ❑ Optimism not Pessimism
- ❑ Emotions are contagious

- Quickly identify the best way your athlete learns.
- Communication
- Trust
- You need to care about your athlete



- ▣ Preparation: short and long term
- ▣ Seek feedback and act on it
- ▣ Constant reviewing performance and training

- ▣ Only focused on coaching
- ▣ Ignore outside distractions
- ▣ Opposition analysis / race strategy and tactics

- ▣ Let athletes know what's occurring
- ▣ Explain to them why or why not
- ▣ Treat each athlete as an individual
- ▣ Good recovery during and between sessions

WOODEN ON LEADERSHIP™



THE ART OF
8UCCESS

PYRAMID OF SUCCESS

COMPETITIVE GREATNESS

"Perform at your best when your best is required. Your best is required each day."

FAITH

PATIENCE

POISE

"Be yourself. Don't be thrown off by events whether good or bad."

CONFIDENCE

"The strongest steel is well-founded self-belief. It is earned, not given."

CONDITION

"Ability may get you to the top, but character keeps you there – mental, moral, and physical."

SKILL

"What a leader learns after you've learned it all counts most of all."

TEAM SPIRIT

"The star of the team is the team. 'We' supercedes 'me'."

SELF-CONTROL

"Control of your organization begins with control of yourself. Be disciplined."

ALERTNESS

"Constantly be aware and observing. Always seek to improve yourself and the team."

INITIATIVE

"Make a decision! Failure to act is often the biggest failure of all."

INTENTNESS

"Stay the course. When thwarted try again; harder; smarter. Persevere relentlessly."

INDUSTRIOUSNESS

"Success travels in the company of very hard work. There is no trick, no easy way."

FRIENDSHIP

"Strive to build a team filled with camaraderie and respect: comrades-in-arms."

LOYALTY

"Be true to yourself. Be true to those you lead."

COOPERATION

"Have utmost concern for what's right rather than who's right."

ENTHUSIASM

"Your energy and enjoyment, drive and dedication will stimulate and greatly inspire others."

"Success is peace of mind which is a direct result of self-satisfaction in knowing you made the effort to become the best of which you are capable."

John Wooden, Head Coach

SUCCESS

Success is not a destination, it is a journey.

"Failure to prepare is preparing to fail"
"Don't mistake activity for achievement."

ACHIEVEMENT

True success comes only to an individual by self-satisfaction in knowing that you gave everything to become the very best that you are capable of.

12 LESSONS IN LEADERSHIP

1. Good Values Attract Good People
2. Love Is The Most Powerful Four-Letter Word
3. Call Yourself A Teacher
4. Emotion Is Your Enemy

5. It Takes 10 Hands To Make A Basket
6. Little Things Make Big Things Happen
7. Make Each Day Your Masterpiece
8. The Carrot Is Mightier Than A Stick

9. Make Greatness Attainable By All
10. Seek Significant Change
11. Don't Look At The Scoreboard
12. Adversity Is Your Asset

TECHNIQUE

- ▣ I try not to over complicate technique
- ▣ Work on connection / blade work
- ▣ You need to be one with the boat
- ▣ Feel and have empathy with the water
- ▣ Be smooth and gentle on the boat



NZ Programme

- ▣ Centralised programme: includes athletes, coaches and support staff
- ▣ Full NZ Squad pieces
- ▣ Good support from the HPD , CEO and sponsors which includes the Government
- ▣ Each NZ Coach leads his/her programme

LAKE KARAPIRO



Coaching 5 x Women



KEY POINTS TO SUCCESS

- ▣ Small team environment
- ▣ Everyone got on very well
- ▣ Trained together – side by side
- ▣ Had fun on and off the water / Life balance

- ▣ Good balance of training – aerobic v Anaerobic
- ▣ Training programme:
 - keep reviewing
 - consult
 - be open to new ideas
- ▣ Give praise – say “well done” when it’s deserved.



- ▣ 3 months in Europe
- ▣ Living in close contact with everyone
- ▣ Good relationships with Support Staff
- ▣ Individualised training programme for the athletes and boats

SUPPORT STAFF

- ▣ I worked very closely with all the Sport Science Support Staff.
- ▣ On each of the tours was a Physiotherapist, Massage therapist and a Manager. Other staff came and went over the course of the campaign
- ▣ Team Doctor came in for the World Championships.

WHY IS NZ ROWING STRONG ?

- ❑ It starts with School Rowing
 - 2108 students attended the 2015 Aon Maadi Cup (the largest ever, about 80 more students than the year before).
 - 155 Schools were members of NZSSRA (so had a rower at their school) and 125 of those attended the 2015 Aon Maadi Cup (5 more schools than the year before).
 - There were a total of 3000 school rowers last year across NZ



| | | | |
|--------------|----|--------------|----|
| B U17 1X | 50 | G U18 4+ | 12 |
| G U17 4+ | 30 | G U16 4X+ | 44 |
| B U15 2X | 56 | B U16 2X | 59 |
| G U15 4X+ | 33 | G U18 1X | 46 |
| B U18 2- | 23 | B U18 1X | 44 |
| G U18 2X | 42 | G U15 2X | 53 |
| B U16 4X+ | 33 | B U15 4X+ | 32 |
| G U16 1X | 53 | G U17 8+ | 10 |
| B U18Nov 2X | 35 | B U17 4+ | 24 |
| G U18 Nov 8+ | 7 | G U18 Lwt 2X | 34 |
| B U17 8+ | 9 | B U18 Lwt 2X | 42 |
| G U17 4X+ | 38 | G U16 4+ | 31 |
| B U18 Lwt 4+ | 23 | B U16 8+ | 19 |
| G U15 4+ | 31 | G U18 4X+ | 23 |
| B U18 4X+ | 21 | B U18 2X | 37 |
| G U18 2- | 19 | G U15 8+ | 14 |
| B U16 4+ | 32 | B U15 4+ | 29 |
| G U16 8+ | 18 | G U17 2X | 66 |
| B U18 Nov 8+ | 9 | B U17 4X+ | 35 |
| G U18 Lwt 4+ | 10 | G U18 Nov 4+ | 26 |
| B U17 2X | 60 | B U18 Nov 4+ | 29 |
| G U17 1X | 65 | G U16 2X | 63 |
| B U15 8+ | 12 | B U16 1X | 51 |
| G U18 Nov 2X | 49 | G U18 8+ | 12 |
| B U18 4+ | 26 | B U18 8+ | 22 |





HIGH PERFORMANCE PATHWAY

U18 North/South

Junior

Trans Tasman

U21

University

U23

Elite

Schools / Club athletes

Regional Performance Centre / Summer Squad



- ❑ Good selections at all levels
- ❑ Clear and defined pathways
- ❑ Good coaching at all levels
- ❑ By the time the athletes have progressed through school – NZ representation they are well used to the intensity / mileage.

NZ National Sports

- ▣ Men: Rugby
- ▣ Women: Netball
- ▣ Rowing would lose most of our talent to either of these two sports



video



WHERE TO NOW

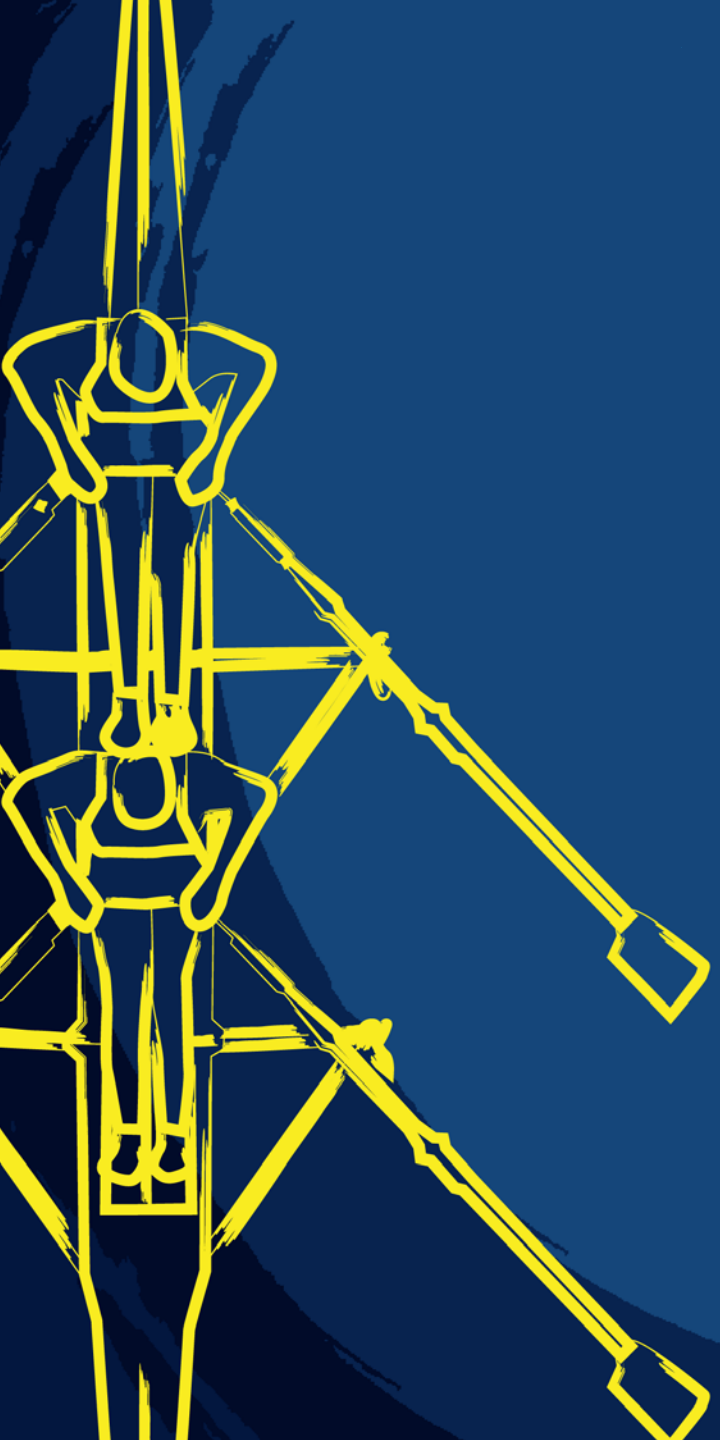
- ▣ NZ Summer Squad and Regional Performance Centres have been selected and are training.
- ▣ NZ Rowing Championships in Mid February 2015

- ▣ New Zealand Trials in February / March 2015
- ▣ New Zealand team commences training early March
- ▣ The European Campaign commences again – 90 day's away !!



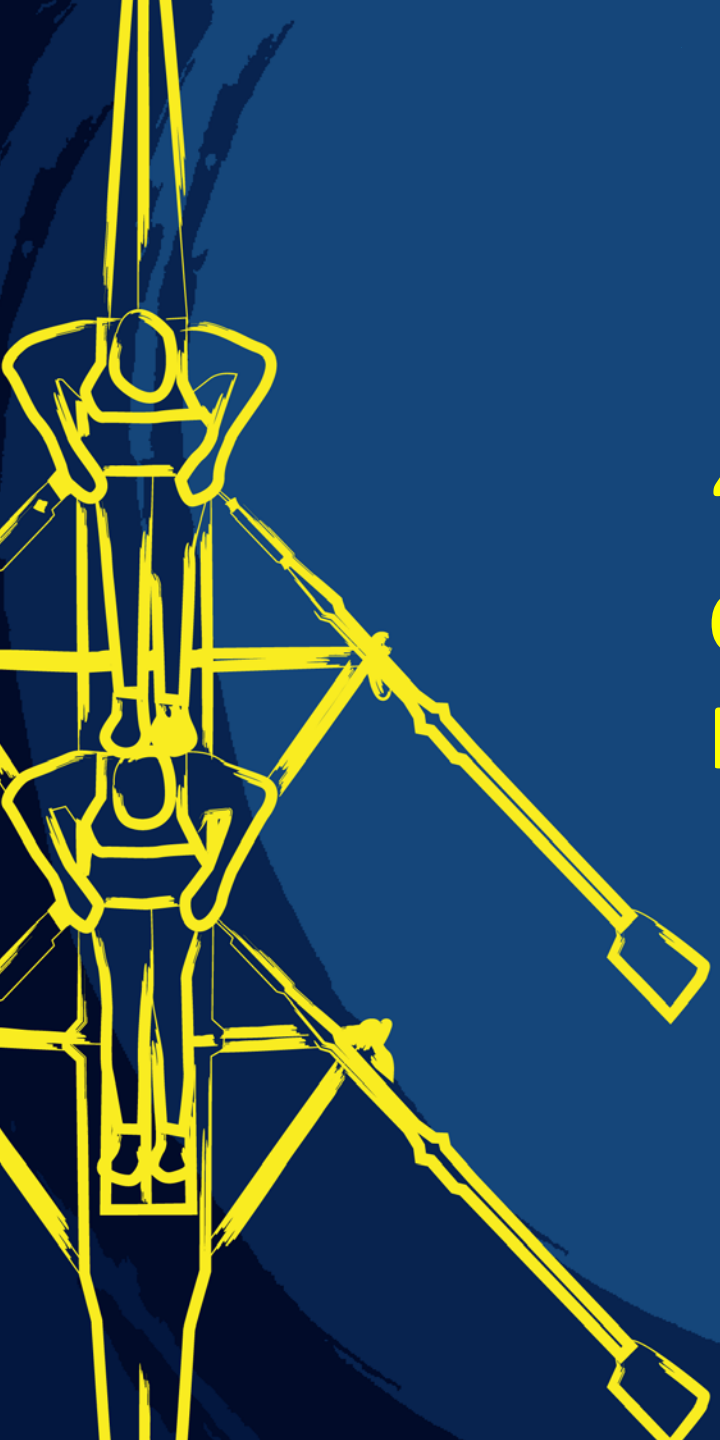
- ▣ Continue to improve not only as a coach but also to ensure and be part of a NZ Rowing programme that continues to strive for success
- ▣ Clearly it's not that easy to back up year after year and retain World Titles. A number of 2013 World Champions failed in their attempts to do so.

THANK-YOU



COFFEE BREAK

07/11/2014



“WHAT MAKES A SUCCESSFUL COACH OF WOMEN - THE MYTH AND THE REALITY”

Josy Verdonkschot (NED)

Christine Gossé (FRA)

Premysl Panuska (CZE)

Gianni Postiglione (GRE/LTU)

Morten Espersen (IRL)

Gary Hay (NZL)

07/11/2014

Main differences



Mirka

Ondrej



Crises of the Czech Rowing

Sydney 2000

- 3 crews
- M1x, final A (Vaclav Chalupa)

- 1 crew
- M1x, then Vaclav Chalupa was ill

Atlanta 1996

February, 2000  **new HEAD COACH**

Decisions:

- Create crews only in the Olympic events
- Emphasis of the physical parameters
- Improvement of women's rowing



Main differences



Mirka started with
rowing in 1999

Ondrej won his first medal
in Zagreb 2000



The beginning

- Mirka started with sport at the age of 6 - cross country skiing, athletics (middle tracks), competing at the national level.
- Sometimes she takes part in the 1500m race in the women's extra league. The personal best is 4:34.
- She started with rowing when she was 19, in 1999.
- The first WRC in 2001, the first WRCh in 2001 in Lucerne – the 10th place.
- Both of her parents were rowers, members of the National team. Her father participated in the Olympic Games in Montreal (placed 6th) and in Moscow (placed 5th).

Mirka

Ondrej

- His cousin brings Ondrej into the rowing club to make him to lose the weight - at the age of 13.
- As Ondrej says he did not use to be a sporty character and he was negligent of his training.
- After five years of „the adequate“ training he has his junior medal – JM2x - 3rd place, Zagreb 2000
- In 2003 the CZE crew M2X O.Synek, M.Dolecek wins the WRC series and the bronze medal during the WRCh.
- From 2005 Ondrej has always the medal at the single scull – 10x in the line
- In 2007 he is the stroke man of CZE M8+ for ERCh - the 1st place

•



Results

Ondrej

| <i>Race</i> | <i>Event</i> | <i>Result</i> |
|------------------------|---------------------|----------------------|
| 2001 WRC Munchen | 1x | 5 |
| 2001 WRCh Lucerne | 1x | 10 |
| 2002 FISA U23 | 1x | 1 |
| 2002 WURCh Sevilla | 1x | 1 |
| 2002 WRC overall | 1x | 1 |
| 2003 WRCh Milano | 1x | 4 |
| 2004 OG Athens | 1x | 4 |
| 2005 WRCh Gifu | 1x | 2 |
| 2006 WRCh Eton | 1x | 2 |
| 2007 WRCh Munich | 1x | 4 |
| 2007 ERCh Poznan | 1x | 2 |
| 2008 OG Beijing | 1x | 5 |
| 2008 OG Beijing | 2x | 6 |
| 2008 ERCh Athens | 1x | 1 |
| 2009 WRCh Poznan | 1x | 3 |
| 2010 WRCh Karapiro | 1x | 4 |
| 2011 WRCh Bled | 1x | 1 |
| 2011 ERCh Plovdiv | 1x | 1 |
| 2012 OG London | 1x | 1 |
| 2013 ERCh Sevilla | 1x | 1 |
| 2013 WRCh Chungju | 1x | 3 |
| 2014 ERCh Beograd | 1x | 1 |
| 2014 WRCh Amsterdam | 1x | 7 |

| <i>Race</i> | <i>Event</i> | <i>Result</i> |
|------------------------|---------------------|----------------------|
| 2000 JWRC Munchen | 2x | 3 |
| 2001 WRCh Lucerne | 4x | 11 |
| 2002 WURCh Sevilla | 2x | 5 |
| 2003 WRC overall | 2x | 1 |
| 2003 WRCh Milano | 2x | 3 |
| 2004 OG Athens | 2x | 5 |
| 2005 WRC overall | 1x | 1 |
| 2005 WRCh Gifu | 1x | 3 |
| 2006 WRCh Eton | 1x | 3 |
| 2007 WRCh Munich | 1x | 2 |
| 2007 ERCh Poznan | 8+ | 1 |
| 2008 OG Beijing | 1x | 2 |
| 2008 WRC overall | 1x | 1 |
| 2009 WRCh Poznan | 1x | 3 |
| 2010 WRCh Karapiro | 1x | 1 |
| 2011 WRCh Bled | 1x | 2 |
| 2012 OG London | 1x | 2 |
| 2013 ERCh Sevilla | 1x | 1 |
| 2013 WRCh Chungju | 1x | 1 |
| 2014 ERCh Beograd | 1x | 1 |
| 2014 WRCh Amsterdam | 1x | 1 |

Mirka



Questions at the beginning

- Main difference - the way of the beginning
- Big difference – the age of the beginning

- Mirka – at 6 years, general activities
- Ondrej – at 13 years, rowing...

- Easier to bring the boy?
- How to bring the girl in to rowing, especial advise...
- The importance of the family setting – the role of parents?
- The age for the first steps in rowing?
- Is it necessary the wider dialogue, demand of the girl to be persuaded?

- Yes
-
- The key point - for both of genders!
- 13 years
- I think, yes!



Testing

- 5 x 5 minutes
- Rest 1 minute
- Last distance with full power

- During each rest – blood sample
- The Curve of lactic acid



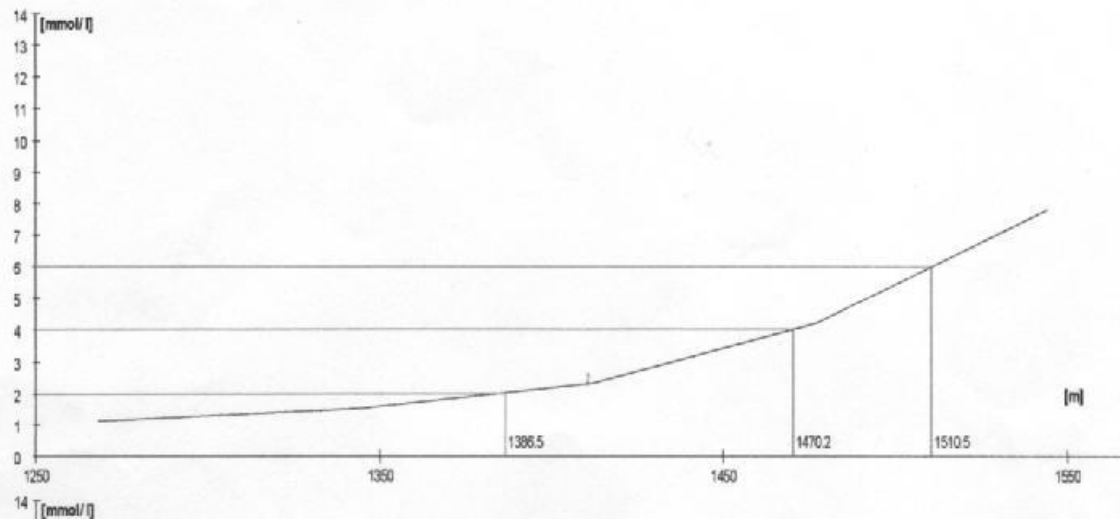
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VIKTORA Milan

Veslo 9.11.2013

| | Rozm. [W] | Výkon [m] | W | TF/min | Lakt. |
|----|-----------|-----------|-----|--------|-------|
| 1. | 210 | 1288 | 211 | 153 | 1.1 |
| 2. | 250 | 1344 | 252 | 162 | 1.6 |
| 3. | 290 | 1412 | 292 | 171 | 2.3 |
| 4. | 330 | 1477 | 334 | 178 | 4.2 |
| 5. | 370 | 1544 | 382 | 182 | 7.8 |

| Lakt. | TF/min | W |
|-------|--------|-------|
| 2.0 | 167.6 | 277.0 |
| 3.0 | | |
| 4.0 | 177.3 | 329.6 |
| 5.0 | | |
| 6.0 | 180.0 | 358.0 |
| 7.0 | | |
| 8.0 | | |

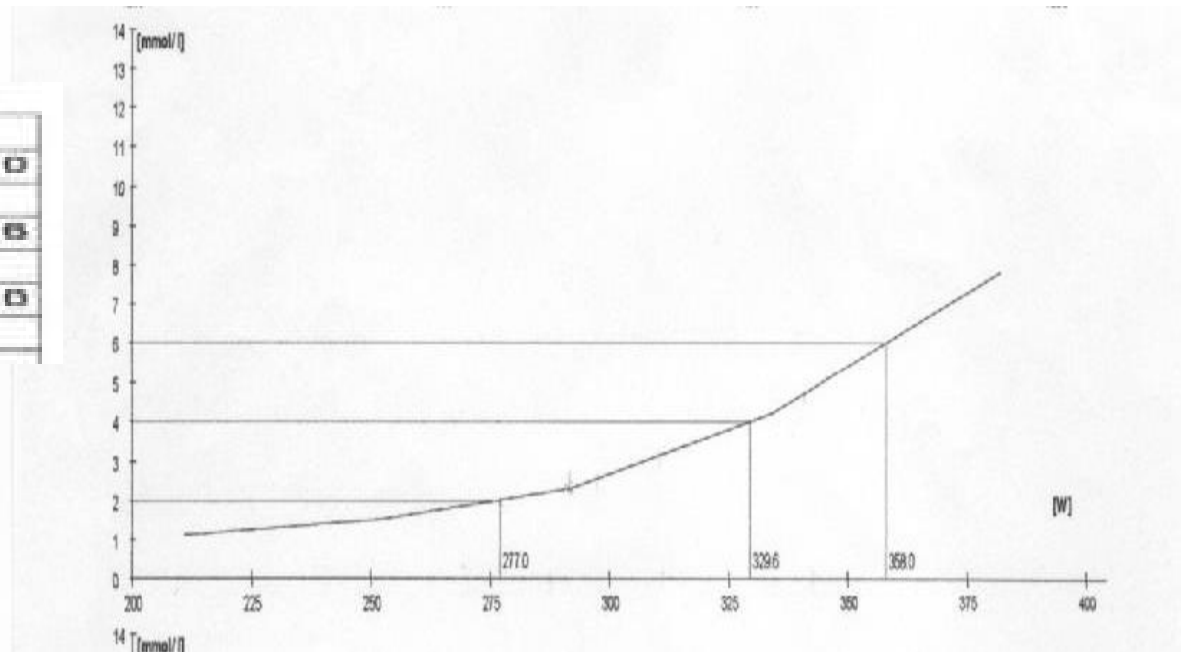


Testing

3x – 4x in a year
efficiency → of the training process
4 zones of the training intensity

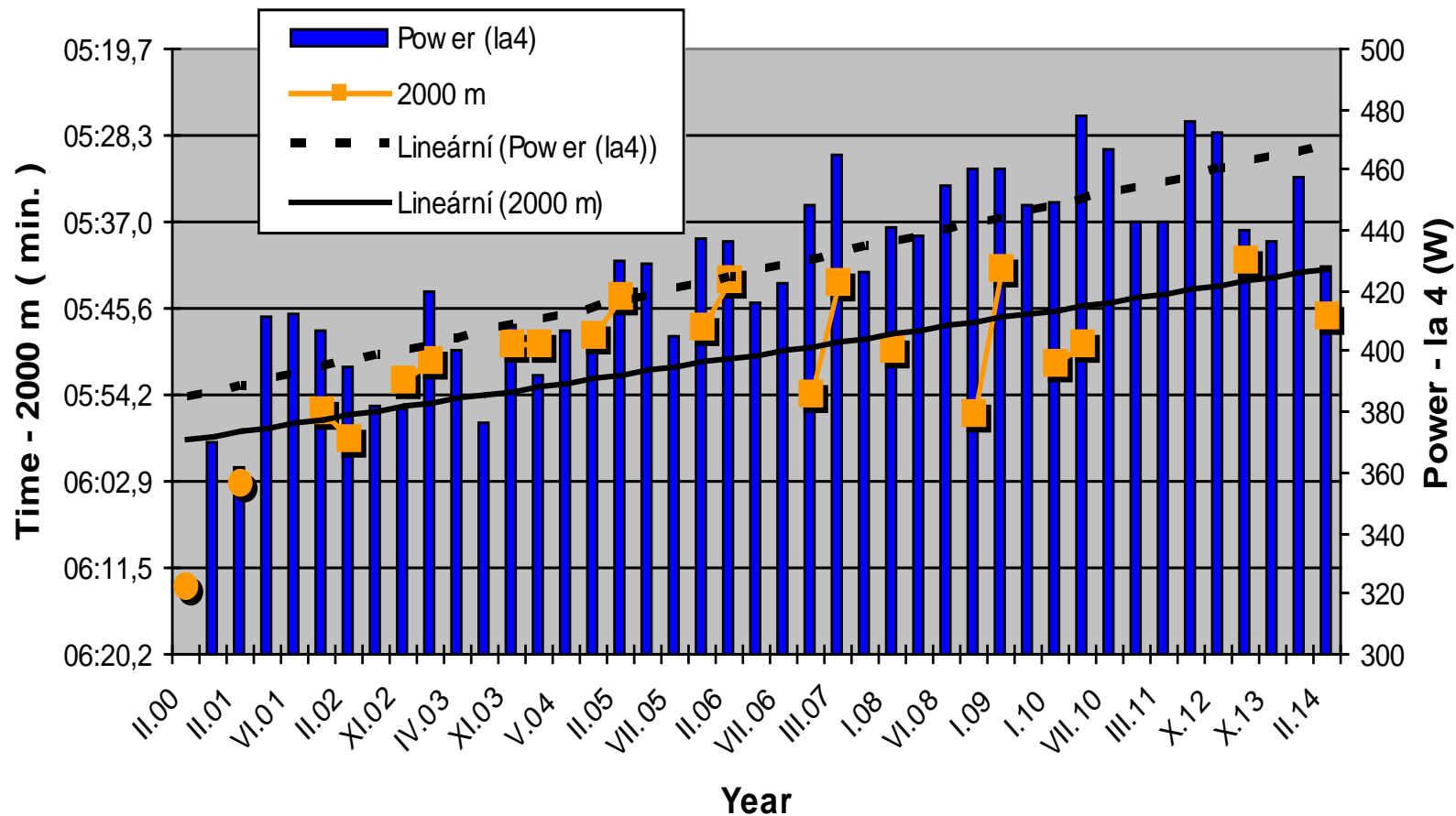
la less than 2 mmol/l of blood
la 2 – 4 mmol
la 4 – 6 mmol
la more than 6 mmol/l of blood

| Lakt. | TF/min | W |
|-------|--------|-------|
| 2.0 | 167.6 | 277.0 |
| 3.0 | | |
| 4.0 | 177.3 | 329.6 |
| 5.0 | | |
| 6.0 | 180.0 | 358.0 |
| 7.0 | | |
| 8.0 | | |



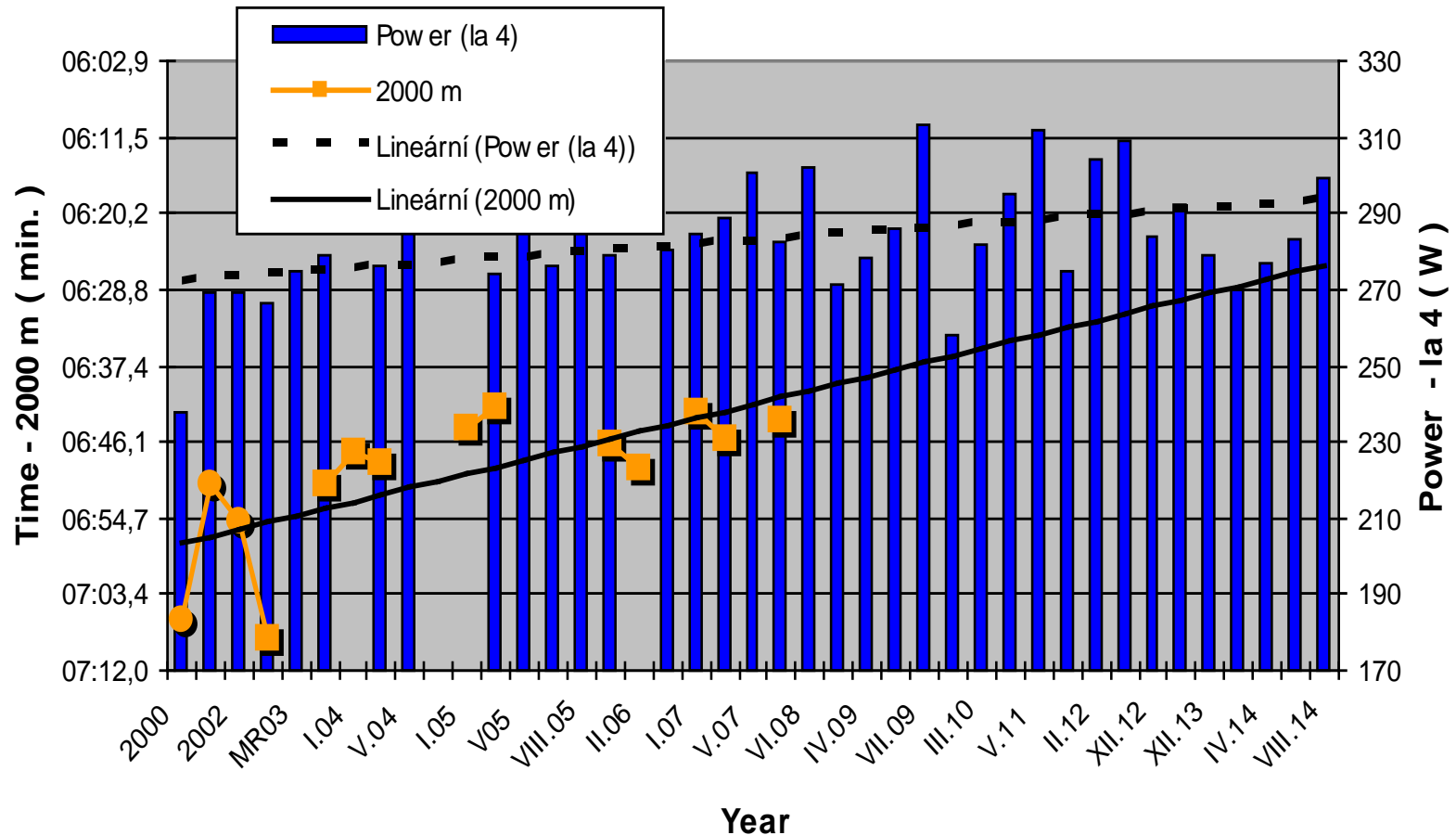
The tests

Ondrej

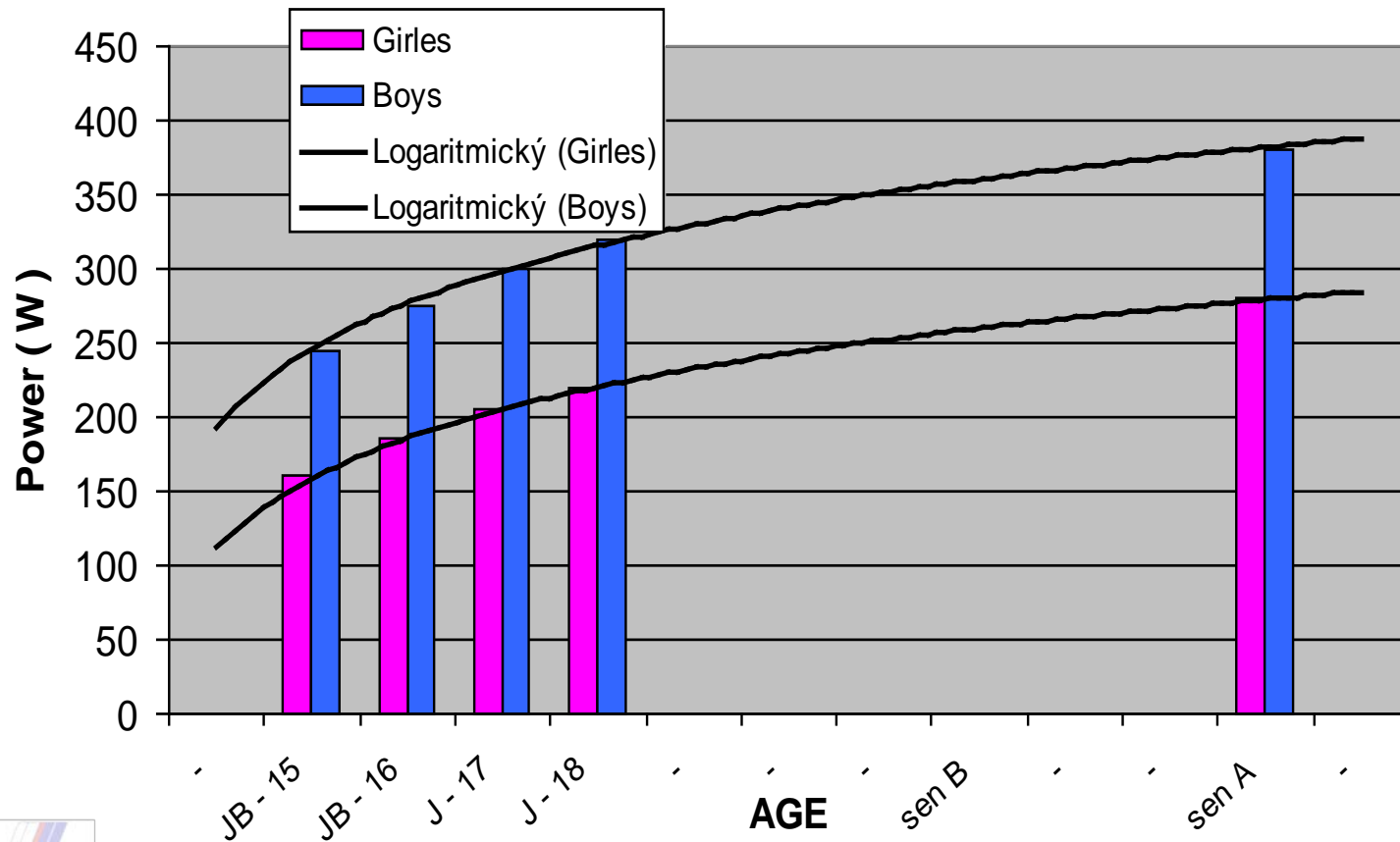


The tests

Mirka



The tests – steps in power (la4)



Question: differences in testing

Mirka

The personal best

- 2000 m
6:42,6
- 6000 m
21:20,2
- Power (Ia4)
311,5 W
- Power (Ia4) / kg
4,4 W / kg

Ondrej

The personal best

- 2000 m
5:40,9
- 6000 m
18:05,3
- Power (Ia4)
478,3 W
- Power (Ia4) / kg
4,8 W / kg

Woman / Man

The international level

- 2000 m
6:42 / 5:55
- 6000 m
21:50 / 19:20
- Power (Ia4)
280 / 380 W

The CZE opinion

| Event | M | W |
|-------|------|------|
| 2- | 6:21 | 6:58 |
| 1x | 6:38 | 7:12 |



Questions: differences in times

| Event | M | ML | BM | BML | JM | W | LW | BW | BWL | JW |
|-------|------|------|------|------|------|------|------|------|------|------|
| 2x | 6:14 | 6:18 | 6:18 | 6:24 | 6:28 | 6:47 | 6:53 | 6:52 | 6:57 | 7:02 |
| 2- | 6:21 | 6:28 | 6:25 | 6:31 | 6:35 | 6:58 | | 7:03 | | 7:13 |
| 1x | 6:38 | 6:45 | 6:42 | 6:48 | 6:52 | 7:12 | 7:29 | 7:17 | 7:23 | 7:28 |
| 4- | 5:51 | 5:57 | 5:55 | 6:00 | 6:04 | 6:26 | | 6:30 | | 6:40 |
| 4x | 5:43 | 5:49 | 5:47 | 5:52 | 5:55 | 6:16 | 6:23 | 6:20 | 6:26 | 6:30 |
| 8+ | 5:30 | 5:36 | 5:34 | 5:38 | 5:42 | 6:02 | | 6:06 | | 6:15 |

The CZE opinion



The biomechanical testing

Stroke Rate 28

- Swivel Power

183 / 202 W = 385 W

- Min Angle

-66,3 / -67,8

- Max Angle

+42,9 / +41,5

- Catch Slip

6,8 / 5,1 degrees

- Finish Slip

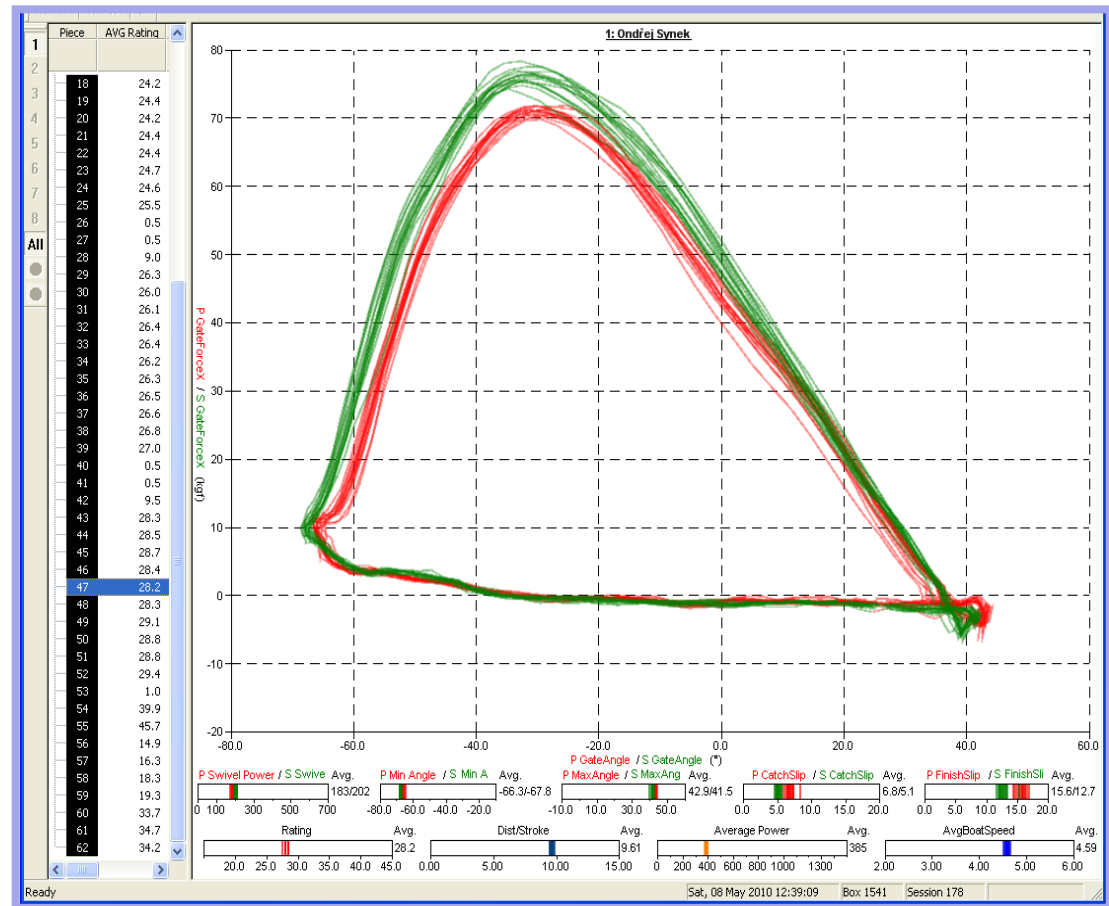
15,6 / 12,7 degrees

- Dist / Stroke

9,51 m

- Avg. Boat Speed

4,59 m/s



Ondrej



The biomechanical testing

Stroke Rate 35

- Swivel Power

236 / 249 W = 485 W

- Min Angle

-65,3 / -66,5

- Max Angle

+42,6 / +39,9

- Catch Slip

5,4 / 3,6 degrees

- Finish Slip

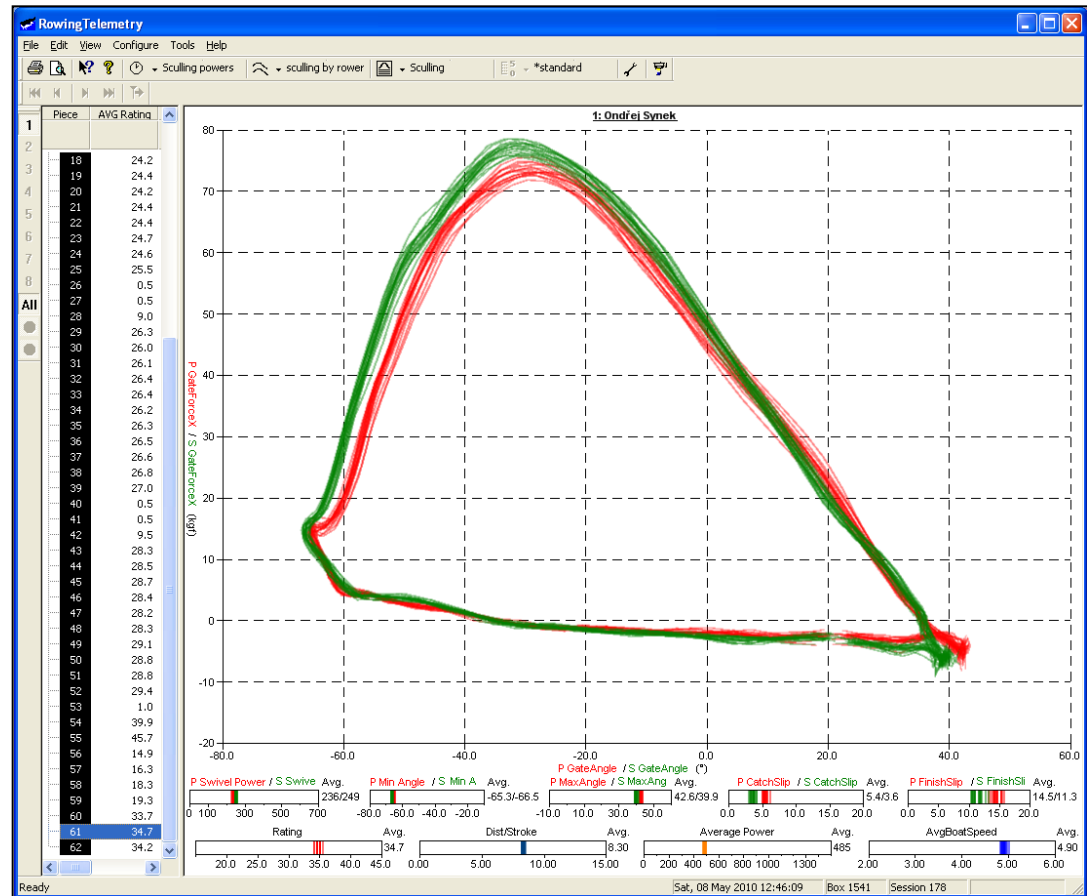
14,5 / 11,3 degrees

- Dist / Stroke

8,30 m

- Avg. Boat Speed

4,90 m/s



Ondrej



The biomechanical testing

Stroke Rate 35

- Swivel Power

236 / 253 W = 489 W

- Min Angle

-65,8 / -66,4

- Max Angle

+42,0 / +39,9

- Dist / Stroke

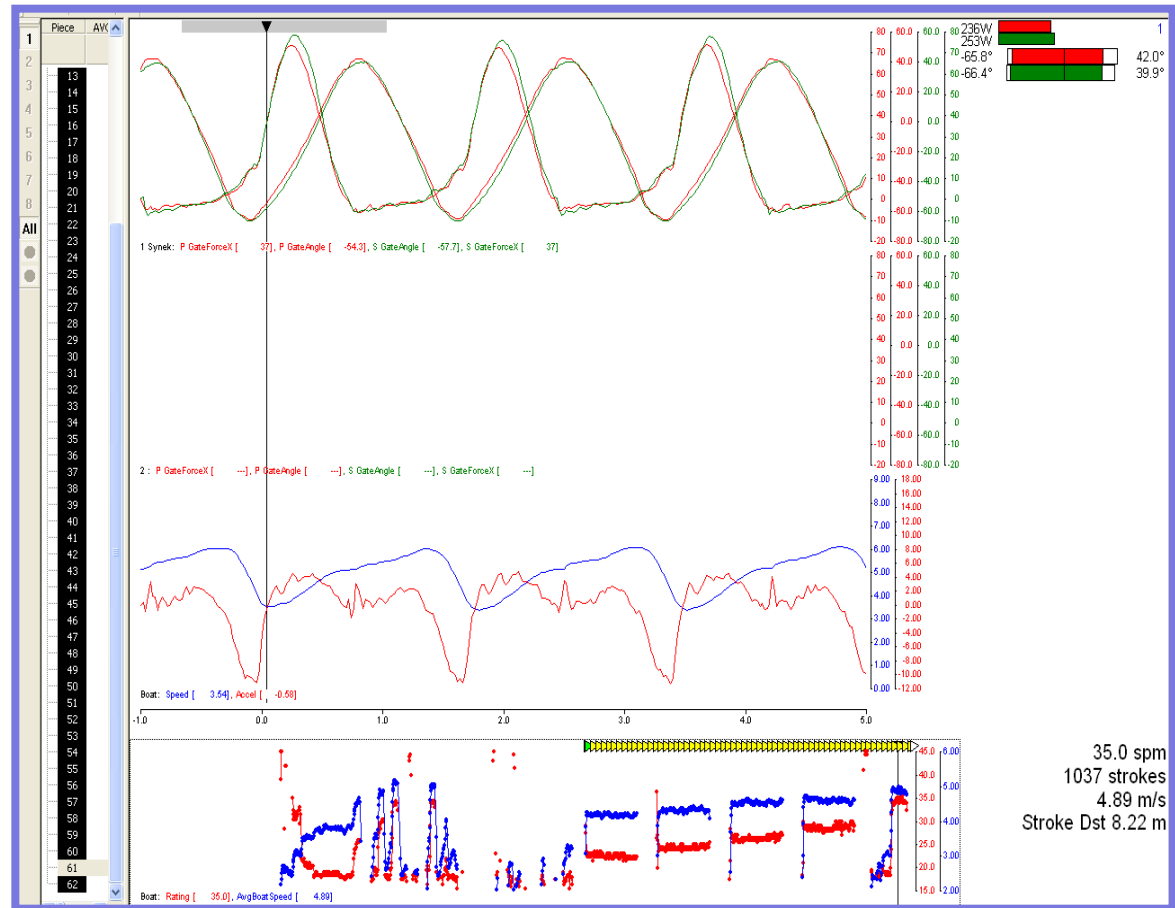
8,22 m

- Avg. Boat Speed

4,89 m/s

- Speed

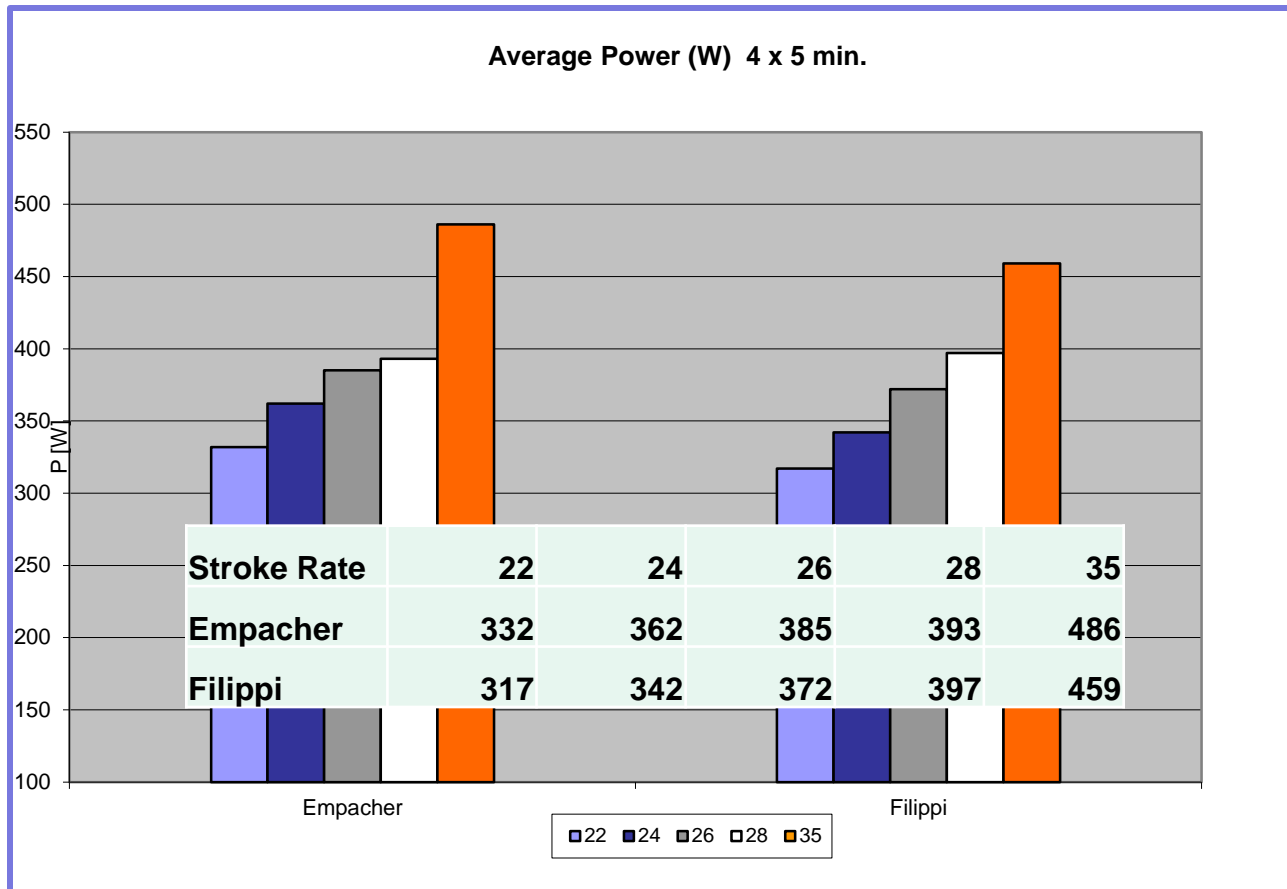
- Acceleration



Ondrej



The biomechanical testing



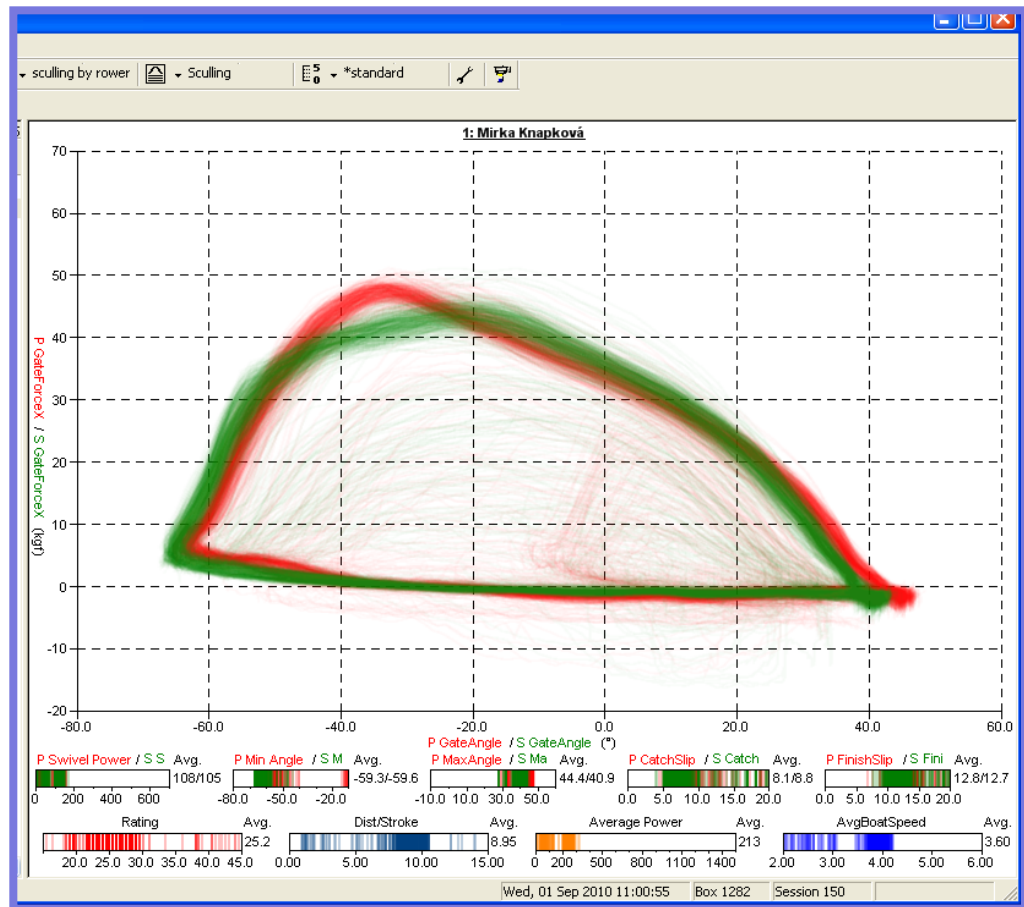
Ondrej



The biomechanical testing

Stroke Rate 25

- Swivel Power
108 / 105 W = 213 W
- Min Angle
-59,3 / -59,6
- Max Angle
+44,4 / +40,9
- Catch Slip
8,1 / 8,8 degrees
- Finish Slip
12,8 / 12,7 degrees
- Dist / Stroke
8,95 m
- Avg. Boat Speed
3,60 m/s



Mirka



The biomechanical testing

Stroke Rate 28

- Swivel Power

128 / 138 W = 266 W

- Min Angle

-62,3 / -65,0

- Max Angle

+43,6 / +41,0

- Dist / Stroke

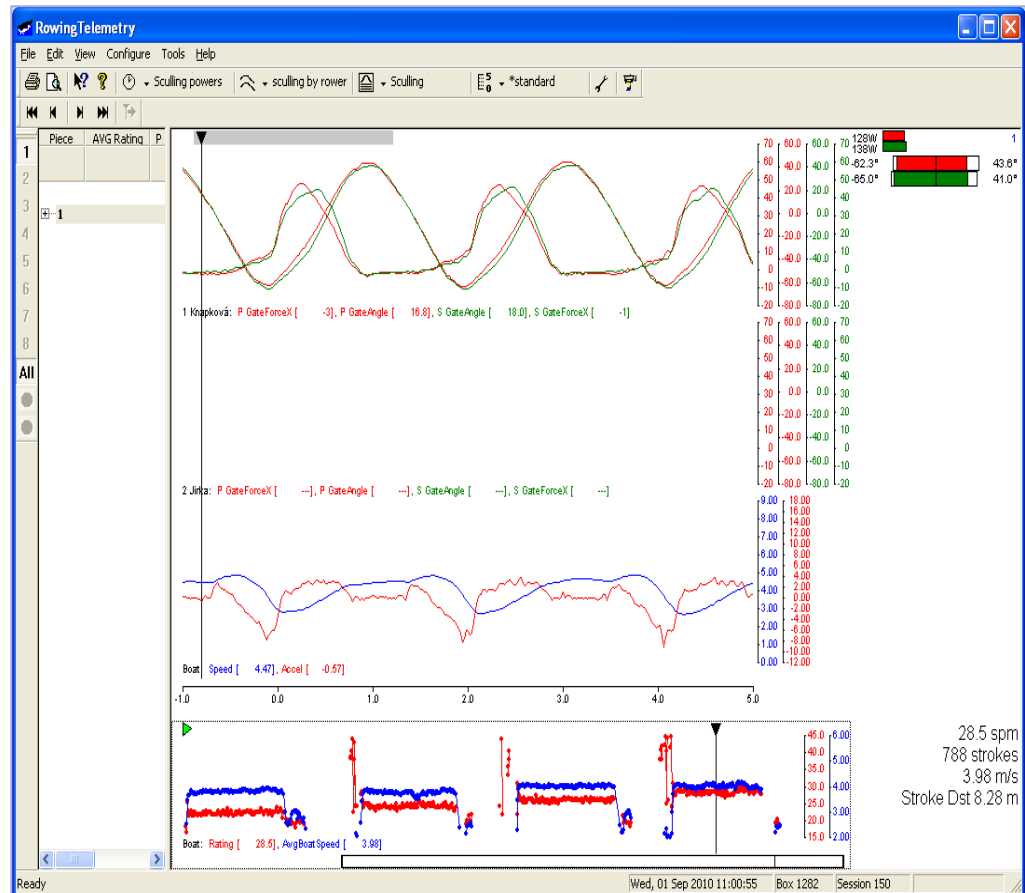
8,28 m

- Avg. Boat Speed

3,98 m/s

- Speed

- Acceleration



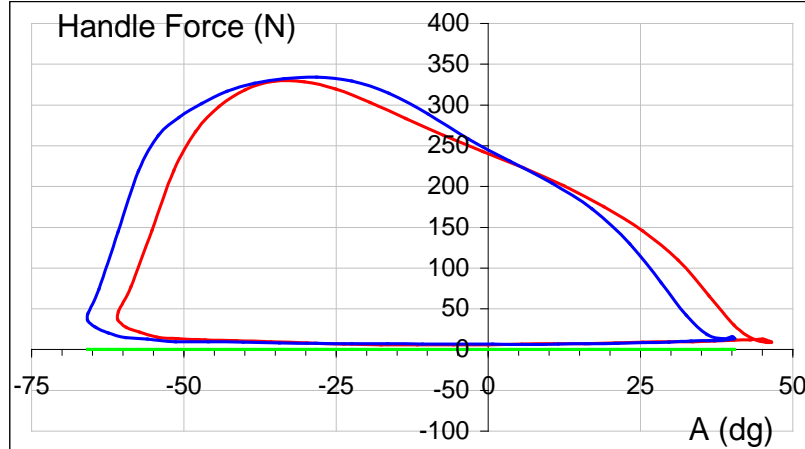
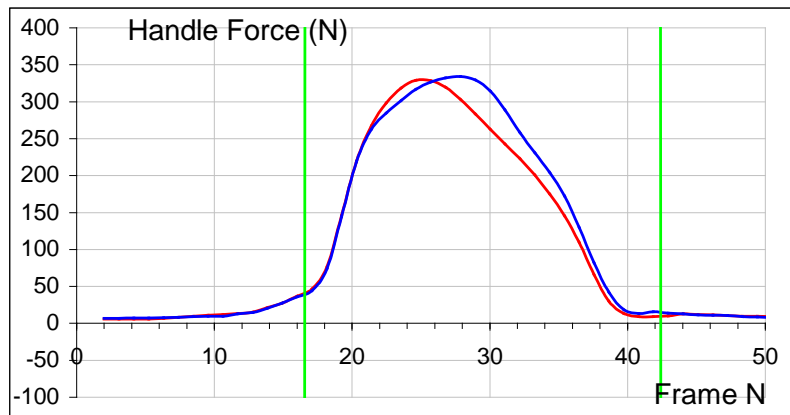
Mirka



The biomechanical testing

Stroke Rate 28

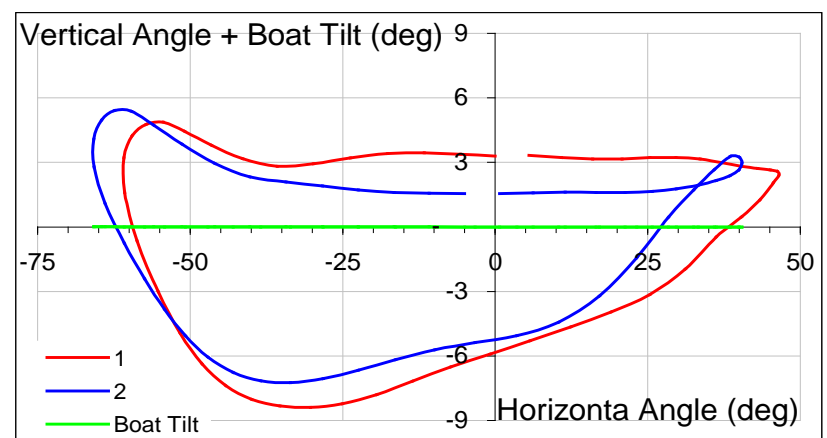
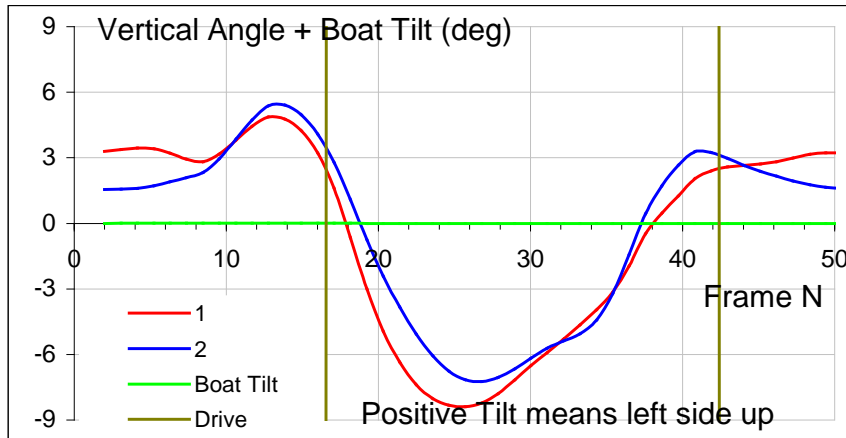
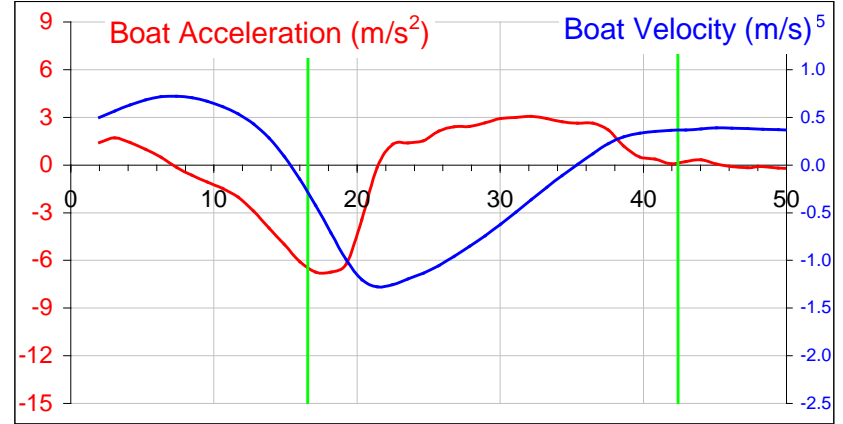
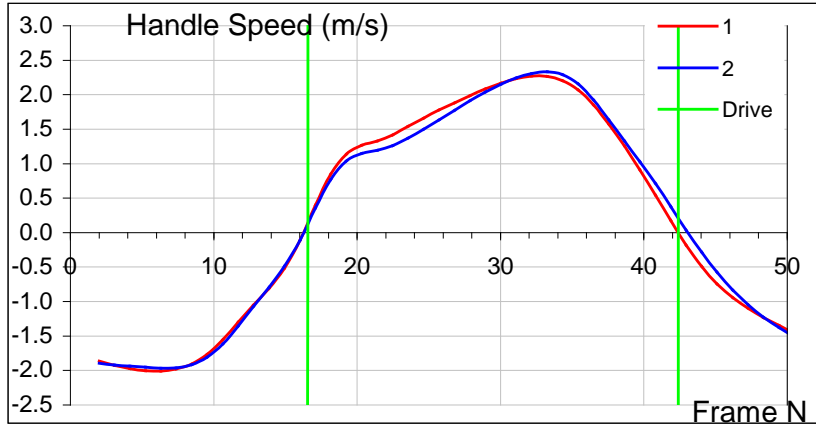
- Swivel Power
154 / 162 W = 316 W
- Force Max (N)
329 / 334
- Force Aver (N)
184 / 190
- Total Angle (deg)
107,3 / 106,2
- Length (m)
1,57 / 1,55
- Drive Time (s)
1,046 / 1,072
- Rhythm (%)
49% / 50%



Mirka



The biomechanical testing



Mirka



The differences?

Stroke Rate 28

- Swivel Power
 $183 / 202 \text{ W} = 385 \text{ W}$
- Min Angle
 $-66,3 / -67,8$
- Max Angle
 $+42,9 / +41,5$

- Dist / Stroke
9,51 m
- Avg. Boat Speed
4,59 m/s

Ondrej

Stroke Rate 28

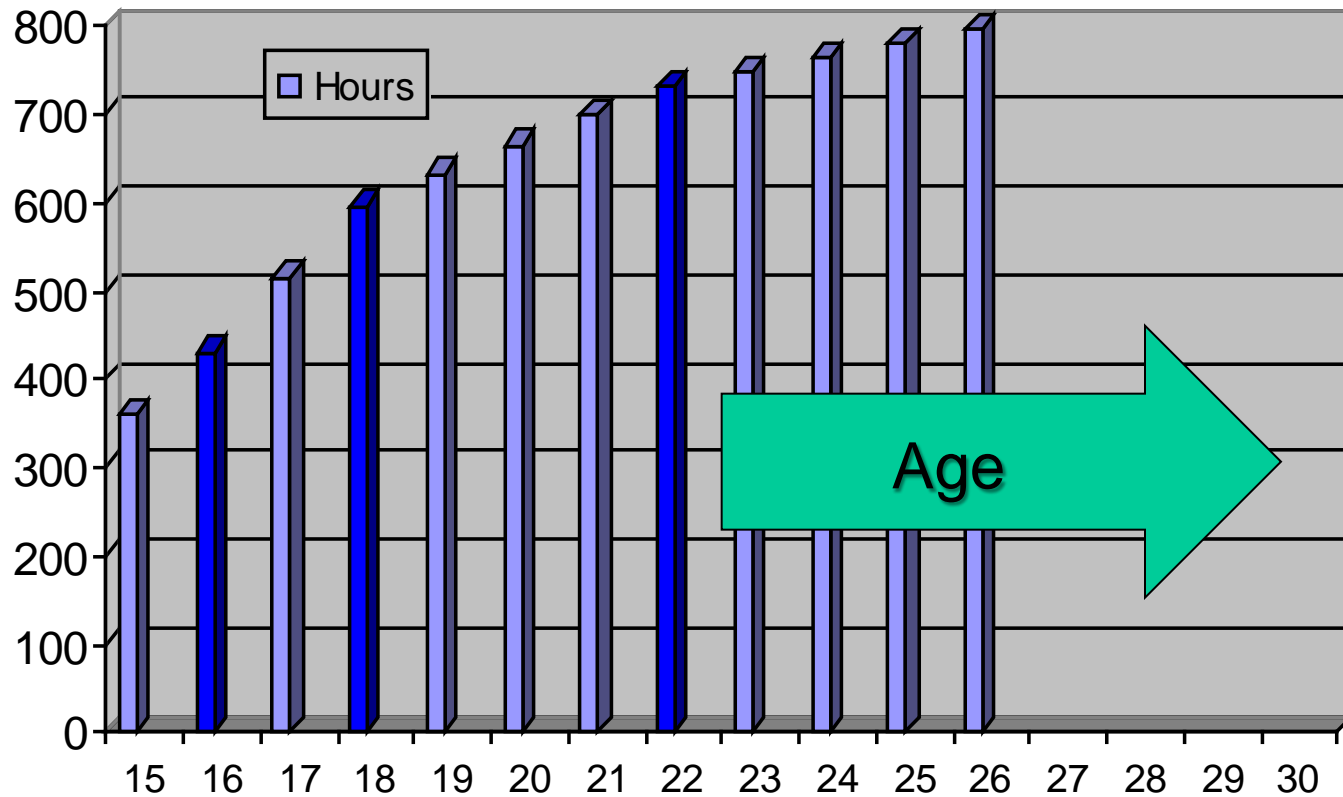
- Swivel Power
 $128 / 138 \text{ W} = 266 \text{ W}$
- Min Angle
 $-62,3 / -65,0$
- Max Angle
 $+43,6 / +41,0$

- Dist / Stroke
8,28 m
- Avg. Boat Speed
3,98 m/s

Mirka



Training volume



The differences in training volume?

- 272 days
- 679 hours
- 3 days of illness
- Rowing - 4512 km
- Water - 2353 km, ergo - 2159 km

In hours

- La 2 mmol - 225
- La 4 mmol - 82
- More then 4 mmol - 28
- Weight lifting - 102
- Running, cycling - 150
- Skiing, swimming, games - 92
- Limited training - 24 days

- 269 days
- 653 hours
- 26 days of illness
- Rowing - 4819 km

In hours

- La 2 mmol - 205
- La 4 mmol - 110
- More then 4 mmol - 75
- Weight lifting - 119
- Others - 144
- Limited training - 25 days

Ondrej

Mirka

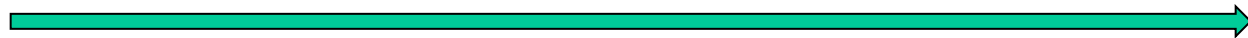


The differences in programme?

IX. X. XI. XII. I. II. III. IV. V. VI. VII. VIII. WRCh

races Boston rowing ergo skiing Livigno skiing Livigno rowing at home rowing Livigno

weight lifting cross country skiing, rowing ergo cycling rowing water rowing water



cardio vascular system cardiac output speed

force

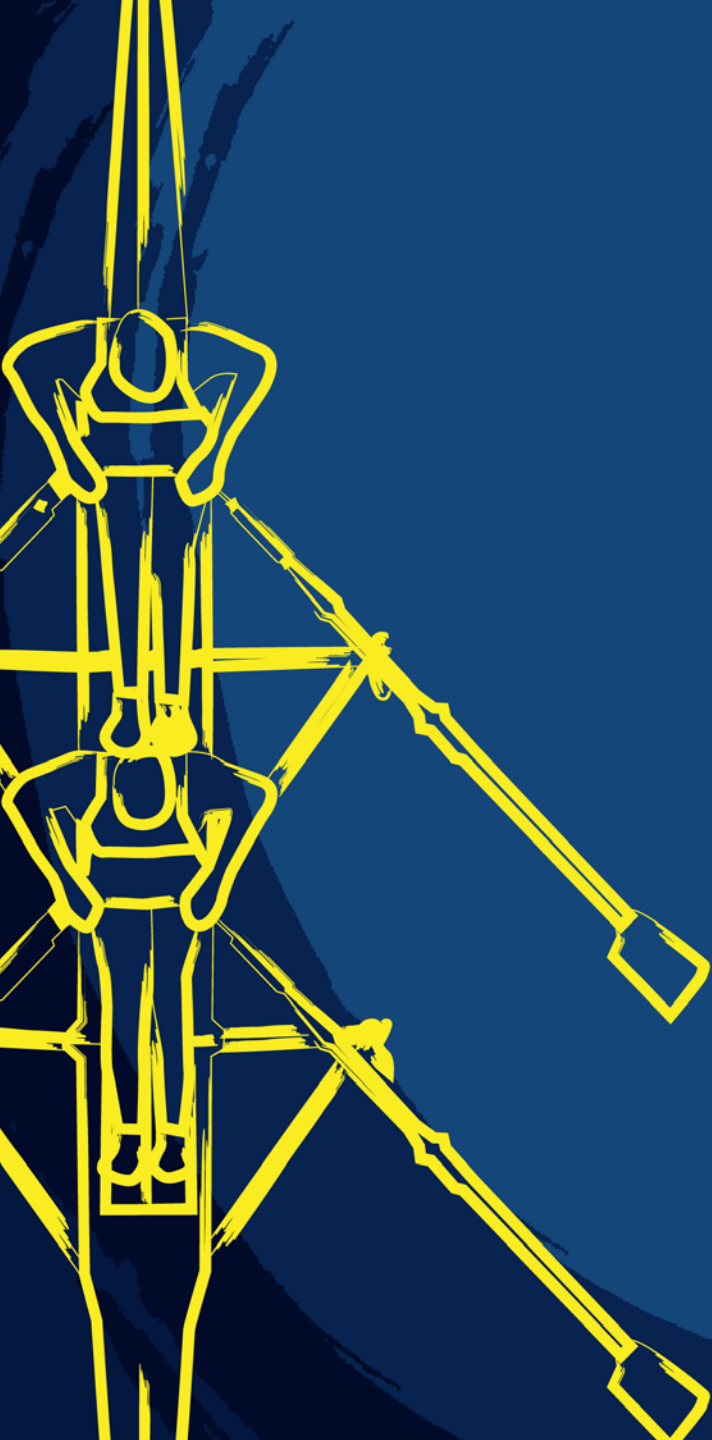


Ondrej



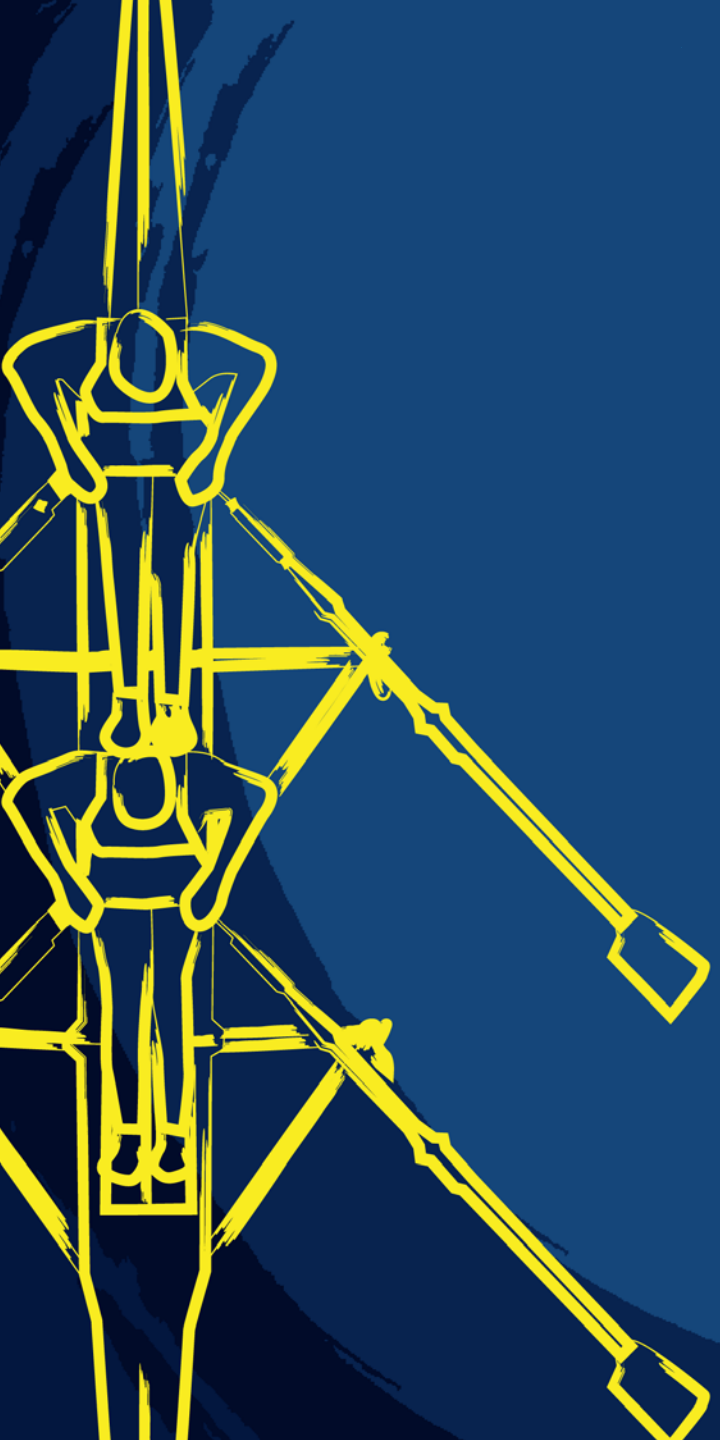
The happy end





LUNCH

07/11/2014



COACHING PARA ROWERS

Guilherme Soares (BRA)

07/11/2014

ParaRowing

Guilherme Soares
Technical Coordinator of
ParaRowing.

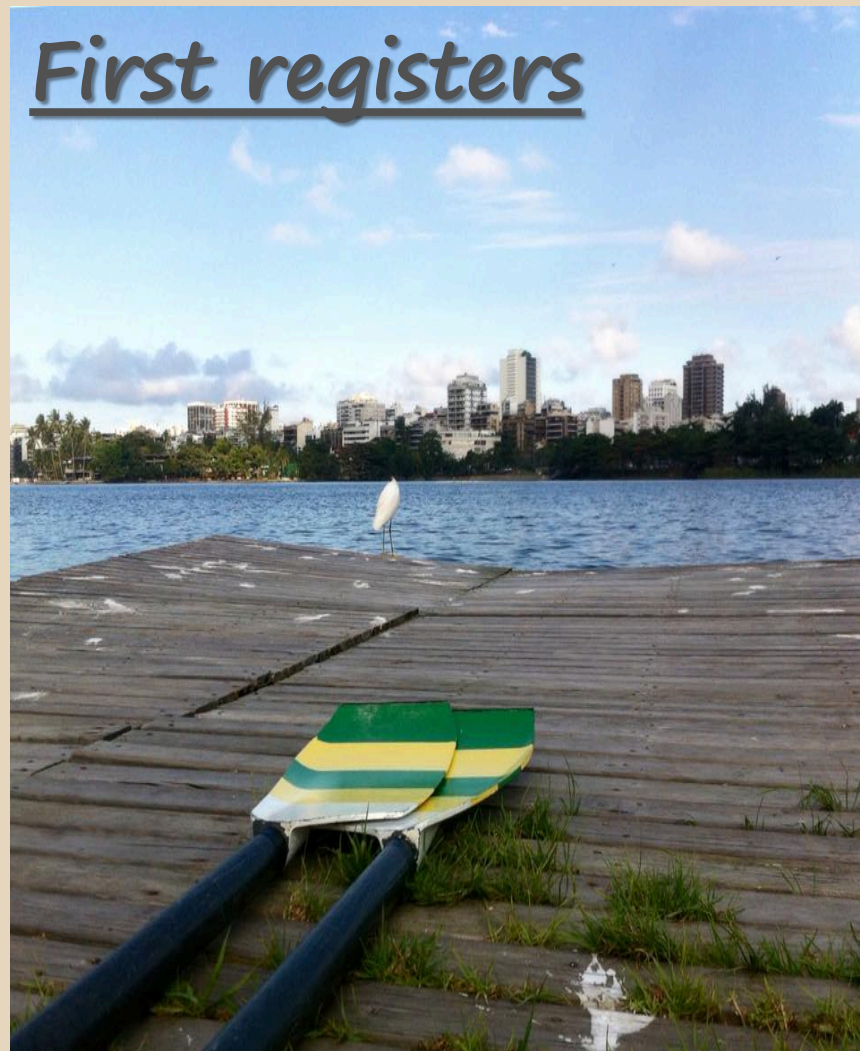
Paralympic Rowing in Brazil



1980 – Project Suderj
– Adapted rowing – A
new perspective to
handicapped people



First registers



Begin

- 2003 - Santa Catarina
- 2004 - Banyoles World Rowing Championship
- 2005 - Adapted Rowing Department



International Championships

| Year s | 200 6 | 200 7 | 200 8 | 200 9 | 2010 | 201 1 | 201 2 | 201 3 | 2014 |
|---|--|--|--|--------------------------------|--|---|--|--|---|
| <u>Internatio nal Competiti ons</u> | 8°- 2x TA 9°- 4+ LTA 10°-1x AsM Eton | 1°- 1x AsW 1°- 2x TA 8°- 4+LTA 9°- 1x AsM Munich | | 2°- 2x TA Pozna n | 2°- 1x AsW 4°- 2x TA 6°- 1x AsM Lake Karapiro | 5°- 1x AsW 9°- 1x AsM 9°- 4+ LTA Bled | | 3°- 1x AsW 9°- 1xAsM Chungj u | 3°- 2x TA 5°- 2x LTA 5°- 4+ LTA 6°- 1x AsM 7°- 1x AsW Amsterd am |
| <u>Paralympi cs</u> | | | 3°- 2x TA 4°- 1x AsW 7°- 4+ LTA | | | | 4°- 1x AsW 6°- 1x AsM 8°- 2x TA | | |

Other ParaRowing Championships

| COMPETITION | GOLD | SILVER | BRONZE |
|-------------|------|--------|--------|
| GAVIRATE | --- | 6 | 6 |
| CRASH-B | 5 | 4 | 1 |



Relevant Data

| | |
|--|---|
| Brazil | 5th largest country in the world |
| Population | 203.500.000 inhabitants |
| 23,9 % of population have some kind of disability | Motor, Hearing, Visual and Mental or Intellectual |



Difficulties found at the Clubs

Accessibility

Specific
equipment

Professional
development



Challenge – Renovation



Applied policy
Initiation Parasports

Support from the
Brazilian Paralympic
Committee

Carrying out of
Courses and
Seminars

Partnership with
Universities



Selection Process- Athletes

SNAR
National
System of
Evaluation
of Rowers

- 100 meters
- 250 meters
- 1000 meters
- 3000 meters
- Strength Test

Selection process – Athletes


1x ASM e ASW – The best of 3 falls by 1 km distance

2x TA e LTA – Rowing machine, the best of 3 falls by 1 km distance and better boat formation

4+ LTA – Rowing machine, 2 - pair all the formations and better formation of 4+ Coxed Pair



Athletes' training



**Biological
Individuality**

**Periodic
Concentrations**

**Physiological
Assessments**

Physiology

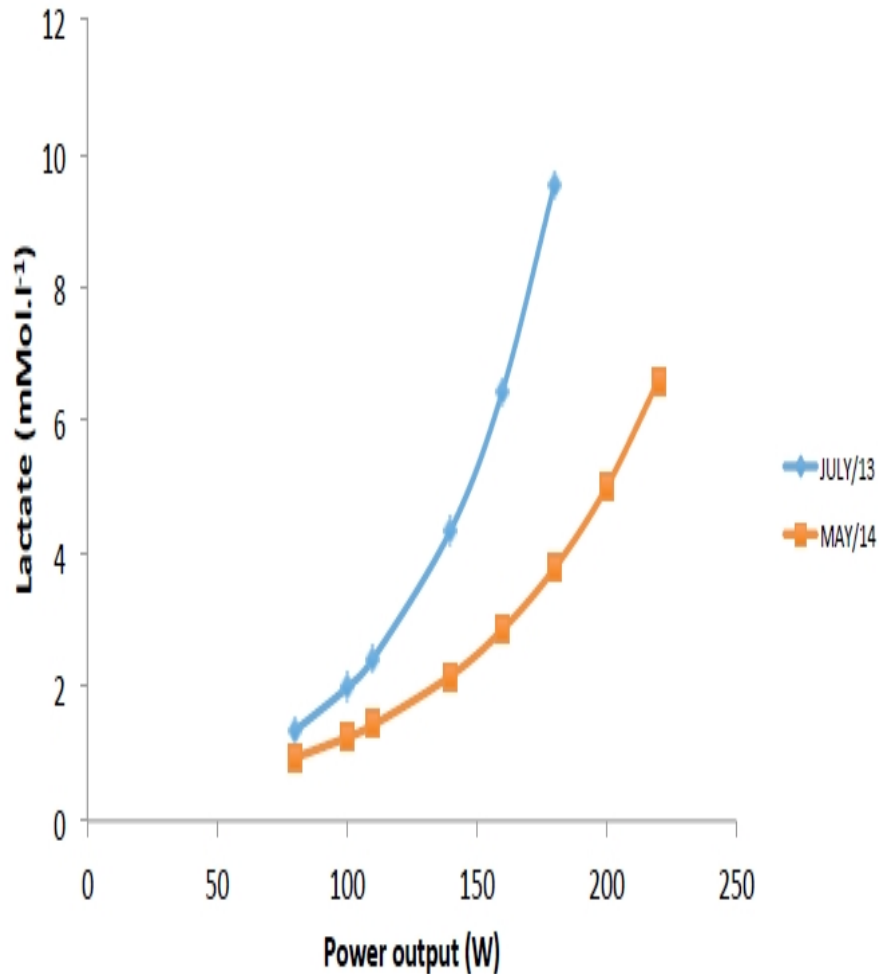


Incremental test - assesses aerobic capacity by response rates of lactate (anaerobic threshold) and maximal aerobic power at $\dot{V}O_2$



3 minutes steps, with breaks of 30 seconds to collect blood increasing 20-30 watts until exhaustion for athletes of all categories.

Physiology



Incremental test
variation of
athlete TA
Josiane Lima

Training method

Kaatsu Training

Training with
restricted blood
flow

Researches have
shown significant
improvement in the
ability of strength
and endurance



Psychology Applied to Sport

Mental training

By Samulski (2000), mental training is the imagination of planned, conscious and repeated motor skills, sports techniques and tactical strategies.

Mental training allows the athlete to reach, with regularity, optimal conditions for learning and performance through the development of mental skills.



Psychology Applied to Sport

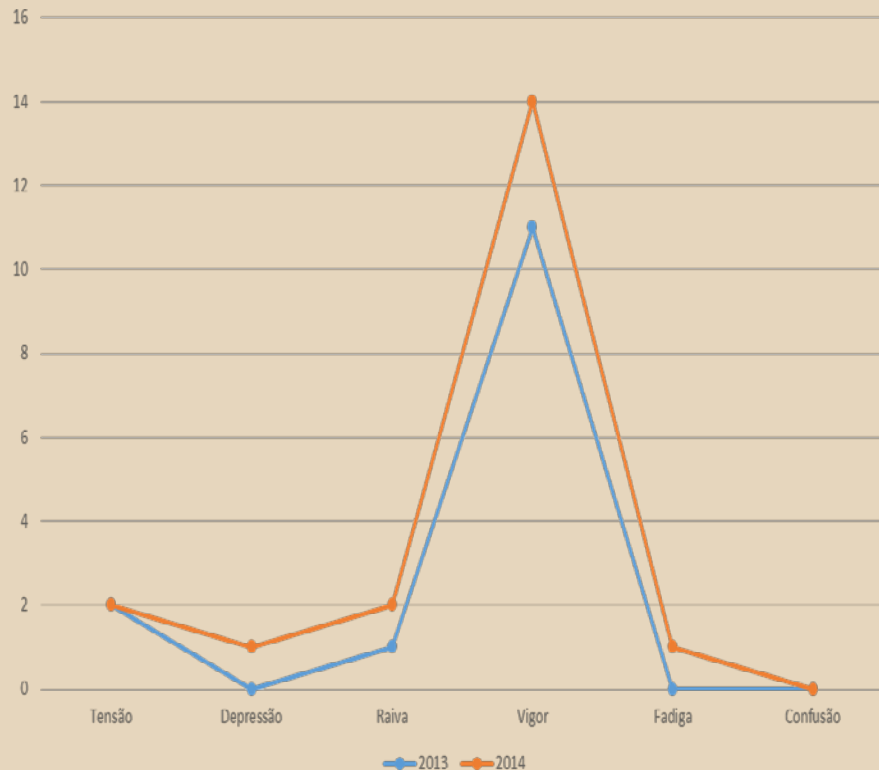
Used techniques

- Relaxing
- Visualization
- Stress control
- Anxiety
- Optimal activation

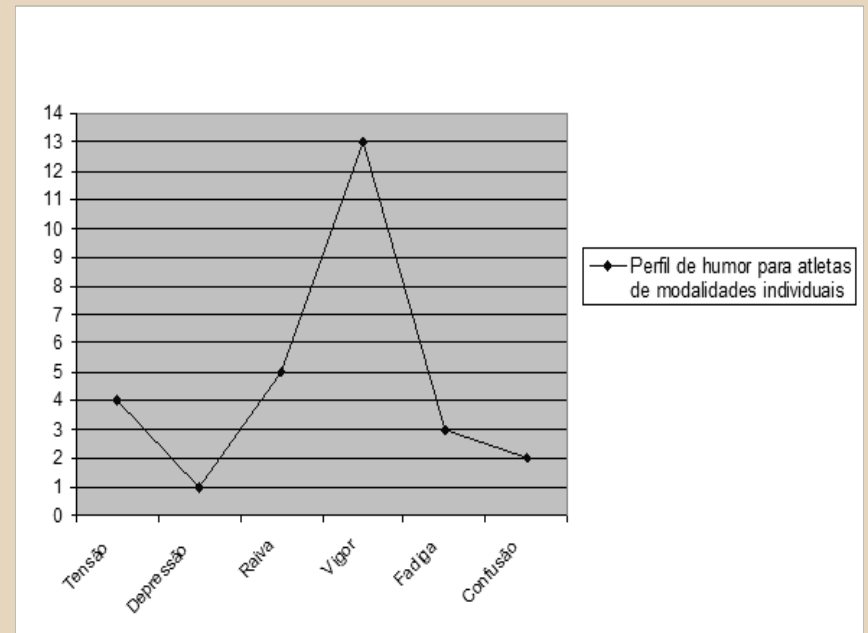


Psychology Applied to Sport

Mood levels of athlete TA Josiane Lima in the competitive period in 2013 and 2014, with high levels of force associated with low levels of tension, depression, anger, fatigue and confusion.



Ideal model of humor to individual sports athletes to competitive period (Brandt, 2013). And in training period under tension, and anger levels is recommended. Based on this, it can be seen that the athlete had optimal levels of the mood factors, being in the best physical and emotional conditions to train and compete.



Physiotherapy

Used Techniques

- Cinesiotherapy
- Technique of Crochetagem
- Myofascial Techniques
- Electrotherapy
- Kinesiotaping
- Functional Bandage
- Neural Mobilization

Physiotherapy

According to the Belgian Academy of Osteopathy
"Osteopathy is a palpatory, diagnostic and therapy of disorders of joint mobility and tissue approach."

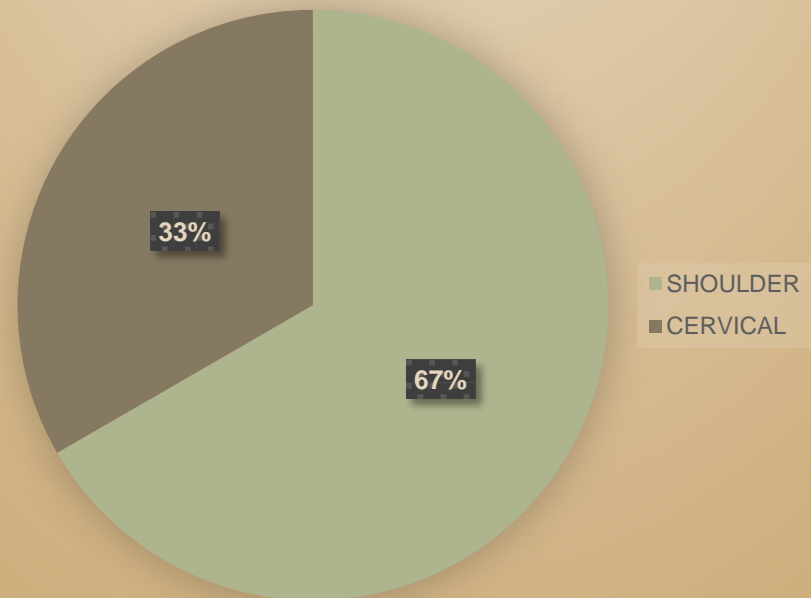


Statistic of the most affected regions of the Paralympic athletes of Brazilian team in 2013 and 2014

CATEGORY AS



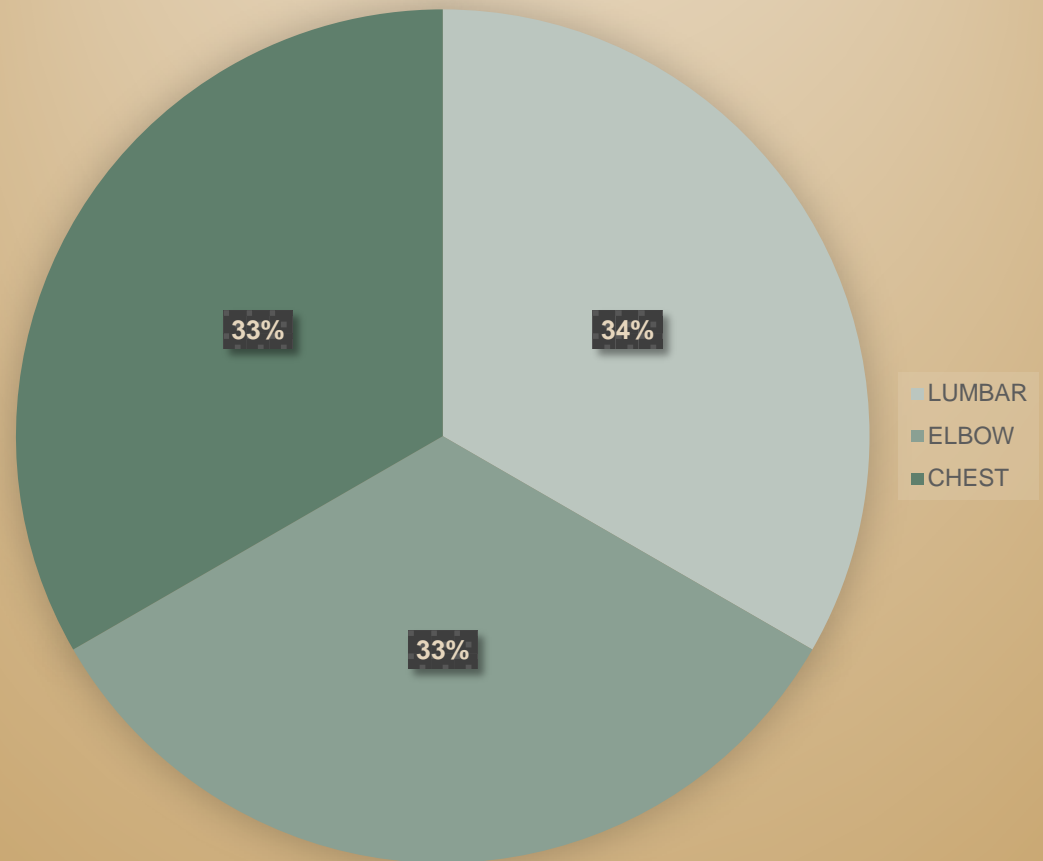
SYMPTOMS



CATEGORY TA



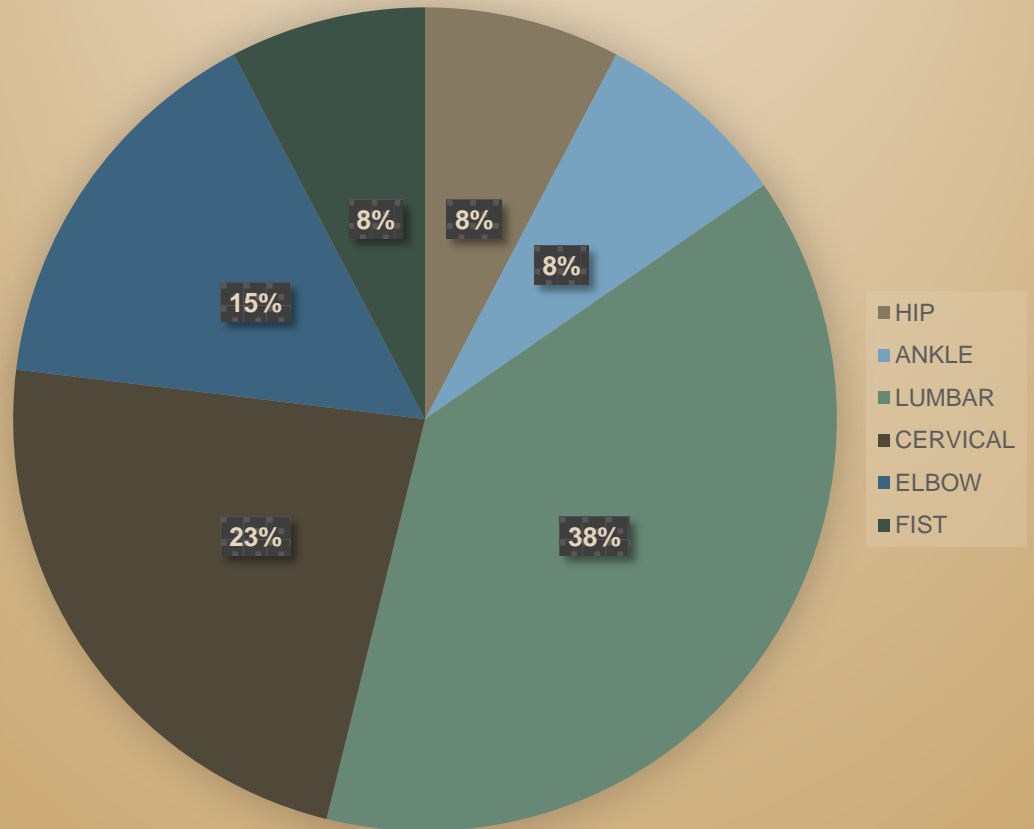
SYMPTOMS



CATEGORY LTA



SYMPTOMS



Composition process - 2x TA



Thank you!

guilhermesoares@cbr-remo.com.br

Phone Number: (21)99165-9928



PARA ROWING CLASSIFICATION

Roberto Nahon (BRA)

07/11/2014



FISA

Classification and Para-Rowing Overview

© FISA Para-Rowing Commission

What is Classification?

It is an official process that:

- Provides structure for competition
- Follows recommendations from IPC
- Determines Eligibility of Athletes
- Minimizes effect of impairment on competition

Classification Guidelines

What it means:

- Inclusion
- Athlete Grouping – Based on function, not on diagnosis



FISA Classifiers

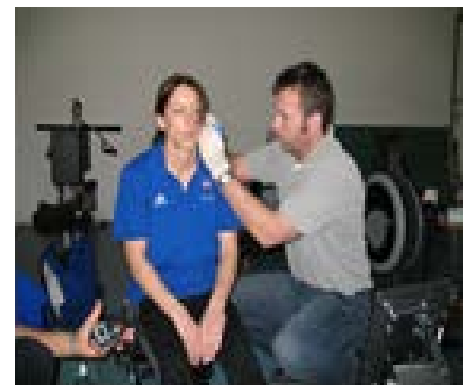
Medical Classifier

- Medical Doctor
- Physiotherapist
- Doctor of Osteopathic Medicine



Technical Classifier

- Rowing Coach
- Former Rower
- Sport Scientist



FISA Classifiers

- Appointed by FISA Executive Committee, Para-rowing Commission, and Head of Classification
- Medical and Technical
- Experience with para-rowing
- Recommended



Five Sport Classes

- ID
- TA
- TA-PD
- TA-PD (2x)
- TA-VI (B1, B2, B3)
- TA
- AS
- N/E (Not Eligible to Compete)

Rowers Eligibility

- To be eligible to compete an athlete must have an impairment that leads to a permanent and verifiable activity limitation
- Rowers must provide documentation of this diagnosis, signed by a physician, in English

Classification – LTA Sport Class

Must Meet the Minimum Disability

Physical Disability

Must be assessed by FISA Classification Panel

Visual Impairment

Must be assessed by VI FISA Classification Panel and issued a Sport Class of B1, B2, or B3



Classification – LTA Sport Class

Must Meet the Minimum Disability

Physical Disability

Must be assessed by FISA Classification Panel

Visual Impairment

Must be assessed by VI FISA Classification Panel and issued a Sport Class of B1, B2, or B3

▪ Intellectual Disability

- Must be included on INAS list on website
- Also working on technical evaluation of ID rowers on ergometer for sport specific testing and will use a computer battery of tests completed by INAS



Minimum Disability

Minimum Disability for Rowers With a Physical Disability

- Full loss of at least three (3) fingers on one hand
- Full metatarsal amputation on one foot
- Loss of 10 points on one limb or 15 points across 2 limbs using Functional Classification Assessment Chart



LTA Sport Class

Typical characteristics of LTA rower

- Amputation: minimum of one single foot, tarsal-metatarsal, or three fingers of one hand
- Neurological impairment equal to incomplete lesion at S1
- Cerebral Palsy Class 8 (CP-ISRA)
- Visual impairment: IBSA Classification
- Intellectual impairment: INAS-FID criteria
- Other neurological impairment of single arm



Classification – TA Sport Class

TA Sport Class

- Trunk function

- Unable to use sliding seat to propel boat

- Significantly weakened function of the lower extremities

- Significant loss of movement of the lower extremities



TA Characteristics

Typical Characteristics of TA Rower

- General around the knee amputations
- Impaired quadriceps
- Neurological impairment equal to complete lesion at L3
- Neurological impairment equal to incomplete lesion at L1
- Cerebral Palsy Class 5 (CP-ISRA)

Classification – AS Sport Class

AS Sport Class

Minimal to No Trunk function

able to apply force using predominantly the arms and shoulders

Increased sitting balance usually present



AS Characteristics

Typical Characteristics of AS Rower

- = Neurological Impairment equal to complete lesion at T12
- = Neurological Impairment equal to incomplete lesion at T10
- = Cerebral Palsy Class 4 (CP-ISRA)



Classification Process

Process for Rowers with Visual Impairment

- Review paperwork and sign where appropriate
- Indicate correct sport class
- Functional Evaluation not needed at this point



Classification Process

Interview Rower (brief)

Documentation check

Medical evaluation

Technical evaluation

On water evaluation



Classification Process - Conclusion

CONCLUSION OF CLASSIFICATION AND COMPLETION OF DOCUMENTATION

Once confirmed with all necessary above tests, the classifiers will jointly determine the “Final Classification” and the recommended sport class and status will be noted on the application form.



Classification Process - Conclusion

CONCLUSION OF CLASSIFICATION AND COMPLETION OF DOCUMENTATION

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A “C” (Continued) sport class status will be given if the rower is classified by a FISA International Classification Panel, none of whom are from that rower’s country, and the rower’s status is not likely to change.



Classification Process - Conclusion

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An “N” (New) status will be given if the rower is classified by a classifier from the same NF as the athlete.



Classification Process - Conclusion

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An “N” (New) status will be given if the rower is classified by a classifier from the same NF as the athlete.

An “R” (Review) status will be given if the rower is classified by a FISA Classification Panel and the rower has a progressive disability that may improve, and/or at least one member of the panel is from that rower’s country, or there is any question regarding the sport class issued.



Classification Process - Conclusion

CONCLUSION OF CLASSIFICATION AND COMPLETION OF DOCUMENTATION

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A “N/E” (**Not Eligible**) status will be given to athletes who do not meet the minimal disability for Para-Rowing classification.



A Rover's Sport Class may only change if -

- There is a change of disability
- There is a change in the classification process
- A protest occurs, and the sport class changes as a result of the protest
- That is a continuous evaluation

Why don't you join us?

Paralympics and Olympics

together

Number of participants

Growth rate (2000-2012)

Athletes = 13%

Countries = 33%

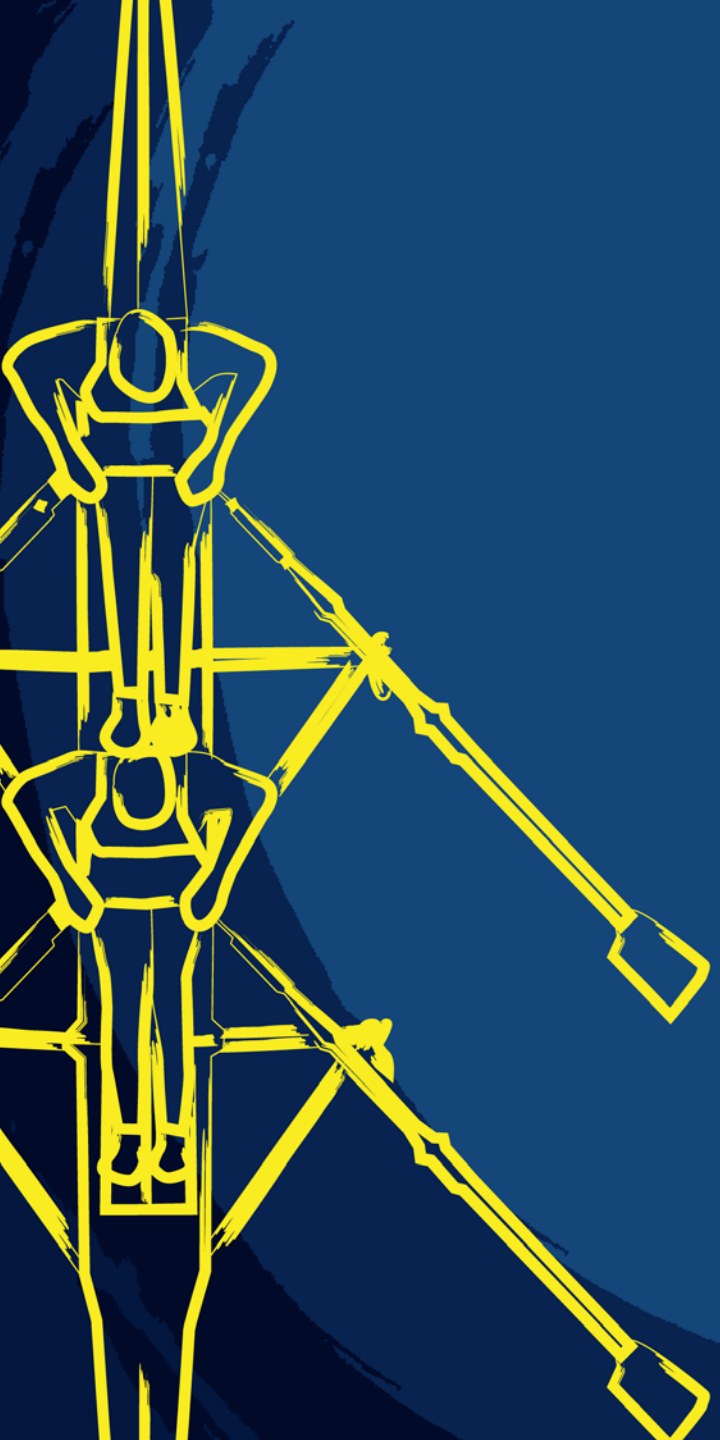
Sydney 2000 Athens 2004 Beijing 2008 London 2012

Countries Athletes



Questions?





COFFEE BREAK

07/11/2014



Downloading and analyzing GPS Data from the FISA website

Jillian O'Mara
Rosie Mayglothing
Henk-Jan Zwolle

1. Accessing race data on worldrowing.com
2. Using race data
3. What would you like to add

1. Access www.worldrowing.com → Events → Results

The screenshot shows the worldrowing.com website. The navigation bar at the top includes links for ROWING, EVENTS (highlighted with a red circle), ATHLETES, NEWS, PHOTOS & VIDEOS, ENVIRONMENT, and FISA. A red arrow points from the 'EVENTS' link to the 'RESULTS' link in the left-hand menu. The main content area displays 'UPCOMING WORLD ROWING EVENTS' and 'OTHER EVENTS'. The 'LATEST NEWS' section is visible on the left, and a banner for 'WORKING TOGETHER TO PROTECT OUR PLANET'S MOST PRECIOUS RESOURCE: CLEAN WATER.' is on the right. At the bottom, there is a row of category buttons: UNDER 23, JUNIOR, UNIVERSITY, MASTERS, COASTAL, and INDOOR.

Media Centre Partnerships Store Q search f t

world rowing

ROWING **EVENTS** ATHLETES NEWS PHOTOS & VIDEOS ENVIRONMENT FISA

EVENTS
CALENDAR
RESULTS
STATISTICS
EVENT BIDDING

UPCOMING WORLD ROWING EVENTS

7 - 9 NOV 2014
2014 World Rowing Coaches Conference
Rio, BRA

17 - 17 JAN 2015
Euro Open
Amsterdam, NED

8 - 10 MAY 2015
2015 World Rowing Cup I
Bled, SLO

[VIEW ALL WORLD ROWING EVENTS >](#)

OTHER EVENTS

1 - 2 NOV 2014
Canadian University Championships
Victoria, BC

1 - 2 NOV 2014
Pan Pacific Masters Games
Oxenford

8 - 9 NOV 2014
Silver Skiff International Regatta
Turin

[VIEW ALL EVENTS >](#)

LATEST NEWS

Food adventures in the Atlantic 27 OCT 2014

Moon Row traverses new waters 24 OCT 2014

Italian para-rowers move towards Rio 23 OCT 2014

Parmigiani Spirit Award finalist Franz Gravenhorst 23 OCT 2014

50 years of the Head of the Charles 21 OCT 2014

WORKING TOGETHER TO PROTECT OUR PLANET'S MOST PRECIOUS RESOURCE: CLEAN WATER.
World Rowing and WWF partners for clean water.


[MORE INFO >](#)

www.worldrowing.com/events/

UNDER 23 JUNIOR UNIVERSITY MASTERS COASTAL INDOOR

2. Search for the event


← → ↻ www.worldrowing.com/events/results ☆



Media Centre Partnerships Store 🔍 search f t y

ROWING EVENTS ATHLETES NEWS PHOTOS & VIDEOS ENVIRONMENT FISA

LATEST WORLD ROWING EVENT



COASTAL

2014 WORLD ROWING COASTAL CHAMPIONSHIPS

Greece / GRE

MEDAL TABLE

2014 WORLD ROWING CHAMPIONSHIPS
AMSTERDAM, NED

| | | G | S | B | |
|---|---------------|---|---|---|----|
| 1 | New Zealand | 6 | 2 | 1 | 9 |
| 2 | Great Britain | 4 | 4 | 2 | 10 |
| 3 | Australia | 2 | 3 | 3 | 8 |
| 3 | Germany | 2 | 3 | 3 | 8 |
| 5 | Ukraine | 2 | 0 | 0 | 2 |

RECENT RESULTS

17 - 19 OCT 2014
2014 World Rowing Coastal Championships
Greece, GRE

9 - 12 OCT 2014
2014 World Rowing Masters Regatta
Melbourne, AUS

20 - 28 SEP 2014
World Rowing Tour
Vohburg, GER

12 - 14 SEP 2014
World University Rowing Championships

SEARCH RESULTS

World Championships ▼

2010 - 2014 > 2000 - 2009 1990 - 1999 1980 - 1989 1970 - 1979 1960 - 1969

24 - 31 AUG 2014
2014 World Rowing Championships
Amsterdam, NED

6 - 10 AUG 2014
2014 World Rowing Junior Championships
Hamburg, GER

23 - 27 JUL 2014
2014 World Rowing U23 Championships
Varese, ITA

3. Click on the boat class “see details” in the results section

→ www.worldrowing.com/events/2014-world-rowing-championships/schedule-results

The screenshot shows the website for the 2014 World Rowing Championships in Amsterdam, NED, held from August 24-31, 2014. The navigation bar includes links for ROWING, EVENTS, ATHLETES, NEWS, PHOTOS & VIDEOS, ENVIRONMENT, and FISA. The main banner features the event logo and a photo of rowers. Below the banner, a horizontal menu highlights the RESULTS section. Under RESULTS, there are two columns: MEN'S EVENT RESULTS and WOMEN'S EVENT RESULTS. Each column contains a table of boat classes with a 'SEE DETAILS >' link for each entry. A red arrow points to the 'SEE DETAILS >' link for the 'LM2x' (Lightweight Men's Double Sculls) entry in the Men's Event Results table.

2014 world rowing championships
Amsterdam, The Netherlands
24 - 31 AUG 2014
2014 WORLD ROWING CHAMPIONSHIPS
Amsterdam, NED

Media Centre | Partnerships | Store | search | f | t | y

ROWING | EVENTS | ATHLETES | NEWS | PHOTOS & VIDEOS | ENVIRONMENT | FISA

OVERVIEW | LIVEBLOG | **RESULTS** | INFORMATION | NEWS | PHOTOS & VIDEOS | MEDALS | PDF FILES | SCHEDULE

MEN'S EVENT RESULTS

| CODE | BOAT CLASS | |
|----------|------------------------------------|----------------------------------|
| ASM1x | AS Men's Single Sculls | SEE DETAILS > |
| LM1x | Lightweight Men's Single Sculls | SEE DETAILS > |
| LM2- | Lightweight Men's Pair | SEE DETAILS > |
| LM2x | Lightweight Men's Double Sculls | SEE DETAILS > |
| LM4- | Lightweight Men's Four | SEE DETAILS > |
| LM4x | Lightweight Men's Quadruple Sculls | SEE DETAILS > |
| LM8+ | Lightweight Men's Eight | SEE DETAILS > |
| LTAMix2x | LTA Mixed Double Sculls | SEE DETAILS > |
| LTAMix4+ | LTA Mixed Coxed Four | SEE DETAILS > |
| M1x | Men's Single Sculls | SEE DETAILS > |
| M2- | Men's Pair | SEE DETAILS > |
| M2+ | Men's Coxed Pair | SEE DETAILS > |

WOMEN'S EVENT RESULTS

| CODE | BOAT CLASS | |
|-------|--------------------------------------|----------------------------------|
| ASW1x | AS Women's Single Sculls | SEE DETAILS > |
| LW1x | Lightweight Women's Single Sculls | SEE DETAILS > |
| LW2x | Lightweight Women's Double Sculls | SEE DETAILS > |
| LW4x | Lightweight Women's Quadruple Sculls | SEE DETAILS > |
| W1x | Women's Single Sculls | SEE DETAILS > |
| W2- | Women's Pair | SEE DETAILS > |
| W2x | Women's Double Sculls | SEE DETAILS > |
| W4- | Women's Four | SEE DETAILS > |
| W4x | Women's Quadruple Sculls | SEE DETAILS > |
| W8+ | Women's Eight | SEE DETAILS > |

www.worldrowing.com/events/2014-world-rowing-championships/lightweight-mens-double-sculls/

4. Find the desired race (heat, semifinal, final, etc)

5. Download PDF of GPS Data

worldrowing ROWING EVENTS ATHLETES NEWS PHOTOS & VIDEOS ENVIRONMENT FISA

(LM2x) Lightweight Men's Double Sculls - Final

STATISTICS FOR LM2X

World best time **06:05.360** RSA Athletes: THOMPSON, James / SMITH, John
Event: 2014 World Rowing Championships

HEAT REPECHAGE QUARTERFINAL SEMIFINAL FINAL

FINAL: FA - 30 AUG 14:03

FA

| RANK | COUNTRY | BOAT | TIME |
|------|---------|------|-----------|
| 1 | RSA | RSA | 06:05.360 |
| 2 | FRA | FRA | 06:05.450 |
| 3 | NOR | NOR | 06:05.790 |
| 4 | ITA | ITA | 06:09.530 |
| 5 | GER | GER | 06:15.110 |
| 6 | NED | NED | 06:20.510 |

Documents:
 [Race Data \(GPS\)](#) / [Results](#) / [Media Start List](#)

[Race Data \(GPS\)](#)

WATCH THE RACE VIDEO »

www.worldrowing.com/assets/pdfs/WCH_2014/ROM122101_MGPS.pdf



WCH Amsterdam, NED

24 - 31 August 2014

9
(Event)

RACE DATA
Lightweight Men's Double Sculls
SAT 30 AUG 2014

LM2x

FA
Race 258

| Dist. [m] | RSA | | NOR | | ITA | | FRA | | GER | | NED | |
|--------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
| | Speed [m/s] | Stroke | Speed [m/s] | Stroke | Speed [m/s] | Stroke | Speed [m/s] | Stroke | Speed [m/s] | Stroke | Speed [m/s] | Stroke |
| 50 | 4.1 | 49.0 | 4.3 | 45.0 | 4.2 | 49.0 | 4.3 | 47.0 | 4.3 | 41.0 | 4.1 | 46.0 |
| 100 | 5.4 | 45.0 | 5.5 | 43.0 | 5.5 | 46.0 | 5.7 | 45.0 | 5.5 | 46.0 | 5.4 | 45.0 |
| 150 | 5.7 | 45.0 | 5.7 | 41.0 | 5.7 | 44.0 | 5.9 | 42.0 | 5.8 | 44.0 | 5.5 | 43.0 |
| 200 | 5.8 | 43.0 | 5.7 | 40.0 | 5.8 | 43.0 | 5.9 | 40.0 | 5.8 | 43.0 | 5.6 | 42.0 |
| 250 | 5.7 | 41.0 | 5.7 | 40.0 | 5.7 | 42.0 | 5.7 | 39.0 | 5.8 | 43.0 | 5.7 | 41.0 |
| 300 | 5.6 | 41.0 | 5.7 | 39.0 | 5.7 | 40.0 | 5.6 | 38.0 | 5.7 | 42.0 | 5.5 | 40.0 |
| 350 | 5.6 | 40.0 | 5.7 | 38.0 | 5.6 | 39.0 | 5.6 | 38.0 | 5.7 | 41.0 | 5.5 | 38.0 |
| 400 | 5.5 | 40.0 | 5.6 | 38.0 | 5.6 | 39.0 | 5.6 | 37.0 | 5.5 | 41.0 | 5.4 | 38.0 |
| 450 | 5.5 | 39.0 | 5.5 | 37.0 | 5.5 | 39.0 | 5.5 | 37.0 | 5.5 | 40.0 | 5.4 | 37.0 |
| 500 | 5.4 | 38.0 | 5.5 | 37.0 | 5.5 | 38.0 | 5.5 | 37.0 | 5.4 | 40.0 | 5.3 | 37.0 |
| 550 | 5.5 | 38.0 | 5.5 | 37.0 | 5.4 | 38.0 | 5.5 | 37.0 | 5.4 | 40.0 | 5.3 | 37.0 |
| 600 | 5.4 | 38.0 | 5.4 | 36.0 | 5.4 | 38.0 | 5.5 | 37.0 | 5.4 | 40.0 | 5.2 | 36.0 |
| 650 | 5.5 | 38.0 | 5.4 | 36.0 | 5.5 | 38.0 | 5.3 | 37.0 | 5.3 | 39.0 | 5.2 | 36.0 |
| 700 | 5.4 | 37.0 | 5.4 | 36.0 | 5.4 | 38.0 | 5.4 | 37.0 | 5.4 | 39.0 | 5.2 | 36.0 |
| 750 | 5.4 | 37.0 | 5.3 | 35.0 | 5.5 | 38.0 | 5.4 | 36.0 | 5.4 | 39.0 | 5.3 | 35.0 |
| 800 | 5.4 | 37.0 | 5.4 | 35.0 | 5.5 | 38.0 | 5.4 | 36.0 | 5.3 | 39.0 | 5.2 | 35.0 |
| 850 | 5.4 | 36.0 | 5.4 | 35.0 | 5.5 | 38.0 | 5.4 | 36.0 | 5.3 | 38.0 | 5.2 | 36.0 |
| 900 | 5.4 | 37.0 | 5.4 | 35.0 | 5.5 | 38.0 | 5.4 | 36.0 | 5.2 | 38.0 | 5.2 | 37.0 |
| 950 | 5.4 | 36.0 | 5.4 | 35.0 | 5.4 | 38.0 | 5.3 | 36.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1000 | 5.4 | 36.0 | 5.3 | 35.0 | 5.4 | 38.0 | 5.4 | 36.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1050 | 5.5 | 36.0 | 5.4 | 35.0 | 5.5 | 39.0 | 5.4 | 36.0 | 5.2 | 38.0 | 5.3 | 36.0 |
| 1100 | 5.5 | 37.0 | 5.4 | 35.0 | 5.5 | 39.0 | 5.4 | 36.0 | 5.2 | 38.0 | 5.3 | 36.0 |
| 1150 | 5.4 | 37.0 | 5.4 | 35.0 | 5.4 | 39.0 | 5.4 | 37.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1200 | 5.5 | 37.0 | 5.3 | 35.0 | 5.3 | 39.0 | 5.4 | 37.0 | 5.3 | 38.0 | 5.2 | 36.0 |
| 1250 | 5.5 | 37.0 | 5.4 | 35.0 | 5.3 | 38.0 | 5.4 | 37.0 | 5.3 | 38.0 | 5.2 | 36.0 |
| 1300 | 5.5 | 36.0 | 5.3 | 35.0 | 5.4 | 38.0 | 5.4 | 37.0 | 5.2 | 37.0 | 5.2 | 35.0 |
| 1350 | 5.4 | 37.0 | 5.4 | 35.0 | 5.4 | 38.0 | 5.4 | 37.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1400 | 5.4 | 36.0 | 5.4 | 35.0 | 5.3 | 38.0 | 5.4 | 37.0 | 5.1 | 38.0 | 5.2 | 37.0 |
| 1450 | 5.5 | 36.0 | 5.4 | 36.0 | 5.3 | 38.0 | 5.4 | 37.0 | 5.1 | 38.0 | 5.2 | 37.0 |
| 1500 | 5.4 | 37.0 | 5.5 | 36.0 | 5.3 | 39.0 | 5.4 | 38.0 | 5.1 | 37.0 | 5.2 | 36.0 |
| 1550 | 5.4 | 37.0 | 5.5 | 37.0 | 5.3 | 39.0 | 5.4 | 38.0 | 5.2 | 39.0 | 5.2 | 36.0 |
| 1600 | 5.5 | 37.0 | 5.5 | 37.0 | 5.3 | 40.0 | 5.4 | 38.0 | 5.3 | 39.0 | 5.3 | 36.0 |
| 1650 | 5.6 | 38.0 | 5.5 | 37.0 | 5.3 | 40.0 | 5.4 | 38.0 | 5.3 | 38.0 | 5.3 | 36.0 |
| 1700 | 5.5 | 37.0 | 5.6 | 37.0 | 5.4 | 40.0 | 5.4 | 39.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1750 | 5.5 | 38.0 | 5.5 | 37.0 | 5.3 | 39.0 | 5.4 | 38.0 | 5.2 | 38.0 | 5.2 | 36.0 |
| 1800 | 5.6 | 37.0 | 5.6 | 38.0 | 5.4 | 41.0 | 5.5 | 40.0 | 5.2 | 38.0 | 5.2 | 37.0 |
| 1850 | 5.7 | 42.0 | 5.6 | 39.0 | 5.5 | 41.0 | 5.5 | 39.0 | 5.3 | 38.0 | 5.2 | 37.0 |
| 1900 | 5.6 | 42.0 | 5.6 | 39.0 | 5.3 | 40.0 | 5.5 | 39.0 | 5.4 | 38.0 | 5.3 | 37.0 |
| 1950 | 5.7 | 43.0 | 5.6 | 39.0 | 5.2 | 40.0 | 5.6 | 42.0 | 5.4 | 38.0 | 5.2 | 37.0 |
| 2000 | 5.6 | 44.0 | 5.6 | 39.0 | 5.1 | 38.0 | 5.6 | 41.0 | 5.3 | 37.0 | 5.2 | 37.0 |



For access to all PDF files from the event, click on the “PDF Files” tab

→ www.worldrowing.com/events/2014-world-rowing-championships/schedule-results

Media Centre Partnerships Store search

world rowing

ROWING EVENTS ATHLETES NEWS PHOTOS & VIDEOS ENVIRONMENT FISA

2014 world rowing championships Amsterdam, The Netherlands 24 - 31 AUG 2014

2014 WORLD ROWING CHAMPIONSHIPS
Amsterdam, NED

OVERVIEW LIVEBLOG **RESULTS** INFORMATION NEWS PHOTOS & VIDEOS MEDALS **PDF FILES** SCHEDULE

MEN'S EVENT RESULTS

| CODE | BOAT CLASS | |
|----------|------------------------------------|----------------------------------|
| ASM1x | AS Men's Single Sculls | SEE DETAILS > |
| LM1x | Lightweight Men's Single Sculls | SEE DETAILS > |
| LM2- | Lightweight Men's Pair | SEE DETAILS > |
| LM2x | Lightweight Men's Double Sculls | SEE DETAILS > |
| LM4- | Lightweight Men's Four | SEE DETAILS > |
| LM4x | Lightweight Men's Quadruple Sculls | SEE DETAILS > |
| LM8+ | Lightweight Men's Eight | SEE DETAILS > |
| LTAMix2x | LTA Mixed Double Sculls | SEE DETAILS > |
| LTAMix4+ | LTA Mixed Coxed Four | SEE DETAILS > |
| M1x | Men's Single Sculls | SEE DETAILS > |
| M2- | Men's Pair | SEE DETAILS > |
| M2+ | Men's Coxed Pair | SEE DETAILS > |

WOMEN'S EVENT RESULTS

| CODE | BOAT CLASS | |
|-------|--------------------------------------|----------------------------------|
| ASW1x | AS Women's Single Sculls | SEE DETAILS > |
| LW1x | Lightweight Women's Single Sculls | SEE DETAILS > |
| LW2x | Lightweight Women's Double Sculls | SEE DETAILS > |
| LW4x | Lightweight Women's Quadruple Sculls | SEE DETAILS > |
| W1x | Women's Single Sculls | SEE DETAILS > |
| W2- | Women's Pair | SEE DETAILS > |
| W2x | Women's Double Sculls | SEE DETAILS > |
| W4- | Women's Four | SEE DETAILS > |
| W4x | Women's Quadruple Sculls | SEE DETAILS > |
| W8+ | Women's Eight | SEE DETAILS > |

www.worldrowing.com/events/2014-world-rowing-championships/lightweight-mens-double-sculls/

Click on the corresponding boat class and PDF file

← → ↺ www.worldrowing.com/events/2014-world-rowing-championships/documents#DoubleSculls 🔍 ☆

worldrowing ROWING EVENTS ATHLETES NEWS PHOTOS & VIDEOS ENVIRONMENT FISA

2014 world rowing championships 24 - 31 AUG 2014
Amsterdam (The Netherlands)
2014 WORLD ROWING CHAMPIONSHIPS
Amsterdam, NED

OVERVIEW LIVEBLOG RESULTS INFORMATION NEWS PHOTOS & VIDEOS MEDALS **PDF FILES** SCHEDULE

DOUBLE SCULLS

Categories

EVENT RELATED

SINGLE SCULL (1X)

DOUBLE SCULLS (2X) >

QUADRUPLE SCULLS (4X)

PAIR (2-)

COXED PAIR (2+)

FOUR (4-)

COXED FOUR (4+)

EIGHT (8+)

PHOTO FINISH IMAGES

Number of documents: 1010

LM2x

- Final - FA - Race Data (GPS)
- Final - FB - Race Data (GPS)
- Final - FA - Results
- Final - FB - Results
- Final - FA - Media Start List
- Final - FB - Media Start List
- Final - FC - Race Data (GPS)
- Final - FD - Race Data (GPS)
- Final - FC - Results
- Final - FD - Results
- Semifinal - SA/B 2 - Race Data (GPS)
- Semifinal - SA/B 1 - Race Data (GPS)
- Semifinal - SA/B 2 - Results
- Semifinal - SA/B 1 - Results
- Final - FC - Media Start List
- Final - FD - Media Start List
- Final - FE - Results
- Semifinal - SC/D 2 - Results
- Semifinal - SC/D 1 - Results
- Quarterfinal - Q4 - Race Data (GPS)
- Quarterfinal - Q3 - Race Data (GPS)
- Quarterfinal - Q2 - Race Data (GPS)
- Quarterfinal - Q1 - Race Data (GPS)

LW2x

- Final - FA - Race Data (GPS)
- Final - FB - Race Data (GPS)
- Final - FA - Results
- Final - FB - Results
- Final - FA - Media Start List
- Final - FB - Media Start List
- Final - FC - Race Data (GPS)
- Final - FD - Race Data (GPS)
- Final - FC - Results
- Final - FD - Results
- Semifinal - SA/B 2 - Race Data (GPS)
- Semifinal - SA/B 1 - Race Data (GPS)
- Semifinal - SA/B 2 - Results
- Semifinal - SA/B 1 - Results
- Final - FC - Media Start List
- Final - FD - Media Start List
- Final - F - Start List Summary
- Semifinal - SC/D 2 - Results
- Semifinal - SC/D 1 - Results
- Semifinal - SA/B 2 - Media Start List
- Semifinal - SA/B 1 - Media Start List
- Semifinal - SC/D 2 - Media Start List
- Semifinal - SC/D 1 - Media Start List

- ✦ Due to inclement weather and technical problems GPS Data may not be available for all races
- ✦ GPS Data is *only* available in PDF format
- ✦ For other race data and results (including 500m split times), please see the results section
- ✦ In certain circumstances, National Federations may receive certain results in excel format upon request, please email databases@fisa.org
- ✦ For other questions or concerns regarding the website, please email jillian.omara@fisa.org



Using GPS race data

Step 1: Export PDF Data into Excel Template

MGPS.pdf

GPS race data

Result data



WCH Amsterdam, NED
9
(Event)
RACE DATA
Lightweight Men's Double Sculls
SAT 30 AUG 2014
LM2x
FA
Race 258

| | RSA | NOR | ITA | FRA | GER | NED |
|-----------|-------------|------------------|-------------|------------------|-------------|------------------|
| Dist. [m] | Speed [m/s] | Stroke [Str/min] | Speed [m/s] | Stroke [Str/min] | Speed [m/s] | Stroke [Str/min] |
| 50 | 4.1 | 49.0 | 4.3 | 45.0 | 4.2 | 49.0 |
| 100 | 5.4 | 45.0 | 5.5 | 43.0 | 5.5 | 46.0 |
| 150 | 5.7 | 45.0 | 5.7 | 41.0 | 5.7 | 44.0 |
| 200 | 5.8 | 43.0 | 5.7 | 40.0 | 5.9 | 42.0 |
| 250 | 5.7 | 41.0 | 5.7 | 40.0 | 5.7 | 39.0 |
| 300 | 5.6 | 41.0 | 5.7 | 39.0 | 5.6 | 38.0 |
| 350 | 5.6 | 40.0 | 5.7 | 38.0 | 5.6 | 37.0 |
| 400 | 5.5 | 40.0 | 5.6 | 38.0 | 5.5 | 37.0 |
| 450 | 5.5 | 39.0 | 5.5 | 37.0 | 5.5 | 36.0 |
| 500 | 5.4 | 38.0 | 5.5 | 37.0 | 5.4 | 36.0 |
| 550 | 5.5 | 38.0 | 5.5 | 37.0 | 5.5 | 37.0 |
| 600 | 5.4 | 38.0 | 5.5 | 37.0 | 5.4 | 36.0 |
| 650 | 5.4 | 38.0 | 5.5 | 37.0 | 5.4 | 36.0 |
| 700 | 5.4 | 37.0 | 5.4 | 36.0 | 5.4 | 36.0 |
| 750 | 5.4 | 37.0 | 5.4 | 36.0 | 5.4 | 36.0 |
| 800 | 5.4 | 37.0 | 5.4 | 36.0 | 5.4 | 36.0 |
| 850 | 5.4 | 36.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 900 | 5.4 | 37.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 950 | 5.4 | 36.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 1000 | 5.4 | 36.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 1050 | 5.5 | 36.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1100 | 5.5 | 37.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1150 | 5.4 | 37.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 1200 | 5.5 | 37.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1250 | 5.5 | 37.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1300 | 5.5 | 36.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1350 | 5.4 | 37.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 1400 | 5.4 | 36.0 | 5.4 | 35.0 | 5.4 | 36.0 |
| 1450 | 5.5 | 36.0 | 5.4 | 35.0 | 5.5 | 36.0 |
| 1500 | 5.4 | 37.0 | 5.5 | 36.0 | 5.4 | 38.0 |
| 1550 | 5.4 | 37.0 | 5.5 | 37.0 | 5.4 | 38.0 |
| 1600 | 5.5 | 37.0 | 5.5 | 37.0 | 5.5 | 38.0 |
| 1650 | 5.6 | 38.0 | 5.5 | 37.0 | 5.6 | 38.0 |
| 1700 | 5.5 | 37.0 | 5.6 | 37.0 | 5.5 | 39.0 |
| 1750 | 5.5 | 38.0 | 5.5 | 37.0 | 5.5 | 39.0 |
| 1800 | 5.6 | 37.0 | 5.6 | 38.0 | 5.6 | 40.0 |
| 1850 | 5.7 | 42.0 | 5.6 | 39.0 | 5.5 | 41.0 |
| 1900 | 5.6 | 42.0 | 5.6 | 39.0 | 5.5 | 40.0 |
| 1950 | 5.7 | 43.0 | 5.6 | 39.0 | 5.6 | 42.0 |
| 2000 | 5.6 | 44.0 | 5.6 | 39.0 | 5.6 | 41.0 |

| DISTANCE | RSA Speed [m/s] | RSA Stroke [Str/min] | NOR Speed [m/s] | NOR Stroke [Str/min] | ITA Speed [m/s] | ITA Stroke [Str/min] | FRA Speed [m/s] | FRA Stroke [Str/min] | GER Speed [m/s] | GER Stroke [Str/min] | NED Speed [m/s] | NED Stroke [Str/min] |
|----------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|
| 50 | 4.1 | 49 | 4.3 | 45 | 4.2 | 49 | 4.3 | 47 | 4.3 | 41 | 4.1 | 46 |
| 100 | 5.4 | 45 | 5.5 | 43 | 5.5 | 46 | 5.4 | 45 | 5.5 | 46 | 5.4 | 45 |
| 150 | 5.7 | 45 | 5.7 | 41 | 5.7 | 44 | 5.9 | 42 | 5.8 | 44 | 5.5 | 43 |
| 200 | 5.8 | 43 | 5.7 | 40 | 5.8 | 43 | 5.9 | 40 | 5.8 | 43 | 5.6 | 42 |
| 250 | 5.7 | 41 | 5.7 | 40 | 5.7 | 42 | 5.7 | 39 | 5.8 | 43 | 5.7 | 41 |
| 300 | 5.6 | 41 | 5.7 | 39 | 5.7 | 40 | 5.6 | 38 | 5.7 | 42 | 5.5 | 40 |
| 350 | 5.6 | 40 | 5.7 | 38 | 5.6 | 39 | 5.6 | 38 | 5.7 | 41 | 5.5 | 38 |
| 400 | 5.5 | 40 | 5.6 | 38 | 5.6 | 39 | 5.6 | 37 | 5.5 | 41 | 5.4 | 38 |
| 450 | 5.5 | 39 | 5.5 | 37 | 5.5 | 39 | 5.5 | 37 | 5.5 | 40 | 5.4 | 37 |
| 500 | 5.4 | 38 | 5.5 | 37 | 5.5 | 38 | 5.5 | 37 | 5.4 | 40 | 5.3 | 37 |
| 550 | 5.5 | 38 | 5.5 | 37 | 5.4 | 38 | 5.5 | 37 | 5.4 | 40 | 5.3 | 37 |
| 600 | 5.4 | 38 | 5.4 | 36 | 5.4 | 38 | 5.5 | 37 | 5.4 | 40 | 5.2 | 36 |
| 650 | 5.5 | 38 | 5.4 | 36 | 5.5 | 38 | 5.3 | 37 | 5.3 | 39 | 5.2 | 36 |
| 700 | 5.4 | 37 | 5.4 | 36 | 5.4 | 38 | 5.4 | 37 | 5.4 | 39 | 5.2 | 36 |
| 750 | 5.4 | 37 | 5.3 | 35 | 5.5 | 38 | 5.4 | 36 | 5.4 | 39 | 5.3 | 35 |
| 800 | 5.4 | 37 | 5.4 | 35 | 5.5 | 38 | 5.4 | 36 | 5.3 | 39 | 5.2 | 35 |
| 850 | 5.4 | 36 | 5.4 | 35 | 5.5 | 38 | 5.4 | 36 | 5.3 | 38 | 5.2 | 36 |
| 900 | 5.4 | 37 | 5.4 | 35 | 5.5 | 38 | 5.4 | 36 | 5.2 | 38 | 5.2 | 37 |
| 950 | 5.4 | 36 | 5.4 | 35 | 5.4 | 38 | 5.3 | 36 | 5.2 | 38 | 5.2 | 36 |
| 1000 | 5.4 | 36 | 5.3 | 35 | 5.4 | 38 | 5.4 | 36 | 5.2 | 38 | 5.2 | 36 |
| 1050 | 5.5 | 36 | 5.4 | 35 | 5.5 | 39 | 5.4 | 36 | 5.2 | 38 | 5.3 | 36 |
| 1100 | 5.5 | 37 | 5.4 | 35 | 5.5 | 39 | 5.4 | 36 | 5.2 | 38 | 5.2 | 36 |
| 1150 | 5.4 | 37 | 5.4 | 35 | 5.4 | 39 | 5.4 | 37 | 5.2 | 38 | 5.2 | 36 |
| 1200 | 5.5 | 37 | 5.3 | 35 | 5.3 | 39 | 5.4 | 37 | 5.3 | 38 | 5.2 | 36 |
| 1250 | 5.5 | 37 | 5.4 | 35 | 5.3 | 38 | 5.4 | 37 | 5.3 | 38 | 5.2 | 36 |
| 1300 | 5.5 | 36 | 5.3 | 35 | 5.4 | 38 | 5.4 | 37 | 5.2 | 38 | 5.2 | 36 |
| 1350 | 5.4 | 37 | 5.4 | 35 | 5.4 | 38 | 5.4 | 37 | 5.2 | 38 | 5.2 | 36 |
| 1400 | 5.4 | 36 | 5.4 | 35 | 5.3 | 38 | 5.4 | 37 | 5.1 | 38 | 5.2 | 37 |
| 1450 | 5.5 | 36 | 5.4 | 36 | 5.3 | 38 | 5.4 | 37 | 5.1 | 38 | 5.2 | 37 |
| 1500 | 5.4 | 37 | 5.5 | 36 | 5.3 | 39 | 5.4 | 38 | 5.1 | 38 | 5.2 | 37 |
| 1550 | 5.4 | 37 | 5.5 | 37 | 5.3 | 39 | 5.4 | 38 | 5.2 | 38 | 5.2 | 37 |
| 1600 | 5.5 | 37 | 5.5 | 37 | 5.3 | 40 | 5.4 | 38 | 5.3 | 38 | 5.3 | 37 |
| 1650 | 5.6 | 38 | 5.5 | 37 | 5.3 | 40 | 5.4 | 38 | 5.3 | 38 | 5.3 | 37 |
| 1700 | 5.5 | 37 | 5.6 | 37 | 5.4 | 40 | 5.4 | 39 | 5.2 | 38 | 5.2 | 37 |
| 1750 | 5.5 | 38 | 5.5 | 37 | 5.3 | 39 | 5.4 | 38 | 5.2 | 38 | 5.2 | 37 |
| 1800 | 5.6 | 37 | 5.6 | 38 | 5.4 | 41 | 5.5 | 40 | 5.2 | 38 | 5.2 | 37 |
| 1850 | 5.7 | 42 | 5.6 | 39 | 5.5 | 41 | 5.5 | 39 | 5.3 | 38 | 5.2 | 37 |
| 1900 | 5.6 | 42 | 5.6 | 39 | 5.3 | 40 | 5.5 | 39 | 5.4 | 38 | 5.3 | 37 |
| 1950 | 5.7 | 43 | 5.6 | 39 | 5.2 | 40 | 5.6 | 42 | 5.4 | 38 | 5.2 | 37 |
| 2000 | 5.6 | 44 | 5.6 | 39 | 5.1 | 38 | 5.6 | 41 | 5.3 | 37 | 5.2 | 37 |

Report

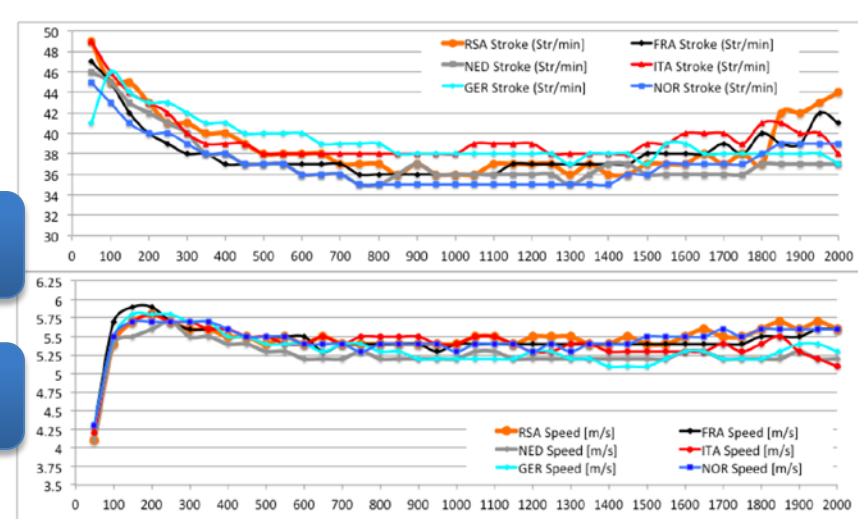
Compare



WCH Amsterdam, NED
9
(Event)
Results
Lightweight Men's Double Sculls
SAT 30 AUG 2014
LM2x
FA
Race 258

| Rank | Lane | Code | Name | 500m | 1000m | 1500m | 2000m | Final Rank | WB |
|------|------|------|---|-----------------|------------------------|------------------------|------------------------|------------|----|
| 1 | 1 | RSA | (b) THOMPSON James (a) SMITH John | 1:30.79 1.47 | (5) 3:03.28 1.32.49 | (4) 4:36.31 1.32.03 | (2) 6:05.36 1.30.05 | (1) | WB |
| 2 | 4 | FRA | (b) DELAYRE Stany (a) AZOU Jerome | 1:29.32 1.47 | (1) 3:01.78 1.32.46 | (1) 4:34.50 1.32.72 | (1) 6:05.45 1.30.95 | (2) | |
| 3 | 2 | NOR | (b) BRUN Kristoffer (a) STRANDLI Are | 1:29.94 0.62 | (3) 3:02.69 1.32.75 | (3) 4:36.33 1.32.84 | (4) 6:06.79 1.30.46 | (3) | |

| 500m Times | RSA | NOR | ITA | FRA | GER | NED |
|------------|---------|---------|---------|---------|---------|---------|
| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
| Place | 1 | 3 | 4 | 2 | 5 | 6 |
| 500m | 01:30.8 | 01:29.9 | 01:30.4 | 01:29.3 | 01:29.8 | 01:33.1 |
| 1000m | 03:03.3 | 03:02.7 | 03:02.3 | 03:01.8 | 03:04.2 | 03:08.7 |
| 1500m | 04:35.3 | 04:35.3 | 04:35.3 | 04:34.5 | 04:40.3 | 04:44.6 |
| 2000m | 06:05.4 | 06:05.8 | 06:09.5 | 06:05.5 | 06:15.1 | 06:20.5 |



Step 2: View Report

Report

Lightweight Men's Double Scull (LM2x)

Final FA: 30th August 2014

Comparison of the 2000m Results GPS race profiles of the 6 Final A crews

Weather conditions:

Wind direction:

Water temp.:

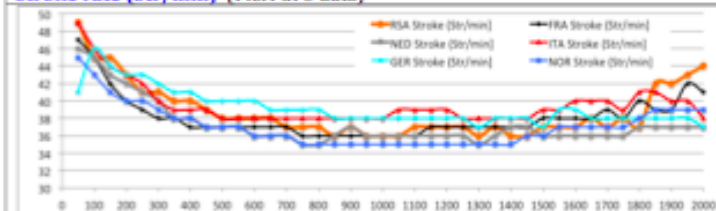
500m times

| DISTANCE | RCA | NOR | ITA | FRA | GER | NED |
|----------|---------|---------|---------|---------|---------|---------|
| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
| Place | 1 | 3 | 4 | 2 | 5 | 6 |
| 500m | 01:30.8 | 01:29.9 | 01:30.4 | 01:29.3 | 01:29.8 | 01:33.1 |
| 1000m | 03:03.3 | 03:02.7 | 03:02.3 | 03:01.8 | 03:04.2 | 03:08.7 |
| 1500m | 04:35.3 | 04:35.3 | 04:35.3 | 04:34.5 | 04:40.3 | 04:44.6 |
| 2000m | 06:05.4 | 06:05.8 | 06:09.5 | 06:05.5 | 06:15.1 | 06:20.5 |

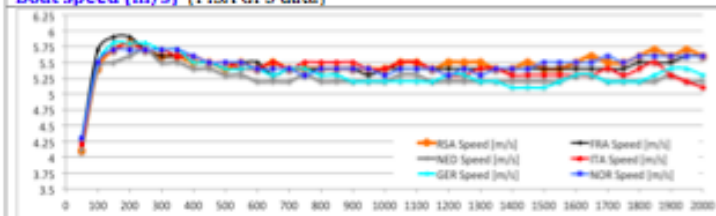
500m splits

| DISTANCE | RCA | NOR | ITA | FRA | GER | NED |
|----------|---------|---------|---------|---------|---------|---------|
| 500m | 01:30.8 | 01:29.9 | 01:30.4 | 01:29.3 | 01:29.8 | 01:33.1 |
| 1000m | 01:32.5 | 01:32.7 | 01:31.8 | 01:32.5 | 01:34.4 | 01:35.6 |
| 1500m | 01:32.0 | 01:32.6 | 01:33.1 | 01:32.7 | 01:36.1 | 01:35.9 |
| 2000m | 01:30.1 | 01:30.5 | 01:34.2 | 01:31.0 | 01:34.8 | 01:36.0 |

Stroke rate (Str/min) (FISA GPS data)



Boat speed (m/s) (FISA GPS data)



Step 3: Compare your Race to Database

Compare

Lightweight Men's Double Scull (LM2x) Comparison: Final FA 2013 - 2014

Comparison of the 2000m Results GPS race profiles of the 6 Final A crews

Weather conditions:

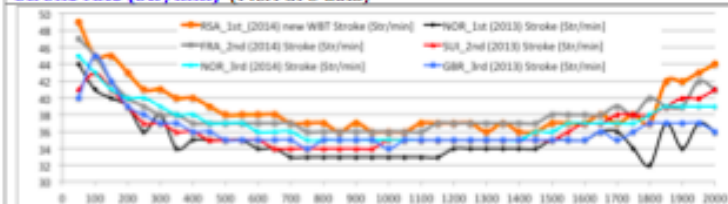
Wind direction:

Water temp.:

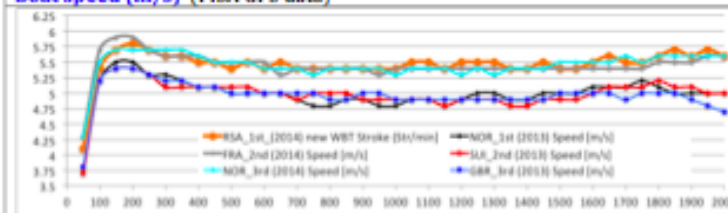
| 500m times | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|
| YEAR | 2014 | 2014 | 2014 | 2013 | 2013 | 2013 |
| Country | RCA | FRA | NOR | NOR | SUI | GBR |
| Lane | 1 | 4 | 2 | 5 | 3 | 4 |
| Place | 1 | 2 | 3 | 1 | 2 | 3 |
| 500m | 01:30.8 | 01:29.3 | 01:29.9 | 01:35.0 | 01:36.0 | 01:37.0 |
| 1000m | 03:03.3 | 03:01.8 | 03:02.7 | 03:15.9 | 03:16.0 | 03:17.0 |
| 1500m | 04:35.3 | 04:34.5 | 04:35.3 | 04:56.7 | 04:57.9 | 04:58.7 |
| 2000m | 06:05.4 | 06:05.5 | 06:05.8 | 06:36.0 | 06:37.1 | 06:38.0 |

| 500m splits | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|
| DISTANCE | RCA | FRA | NOR | NOR | SUI | GBR |
| 500m | 01:30.8 | 01:29.3 | 01:29.9 | 01:35.0 | 01:36.0 | 01:37.0 |
| 1000m | 01:32.5 | 01:32.5 | 01:32.7 | 01:40.8 | 01:40.0 | 01:40.1 |
| 1500m | 01:32.0 | 01:32.7 | 01:32.6 | 01:40.9 | 01:41.9 | 01:41.7 |
| 2000m | 01:30.1 | 01:31.0 | 01:30.5 | 01:39.3 | 01:39.2 | 01:39.3 |

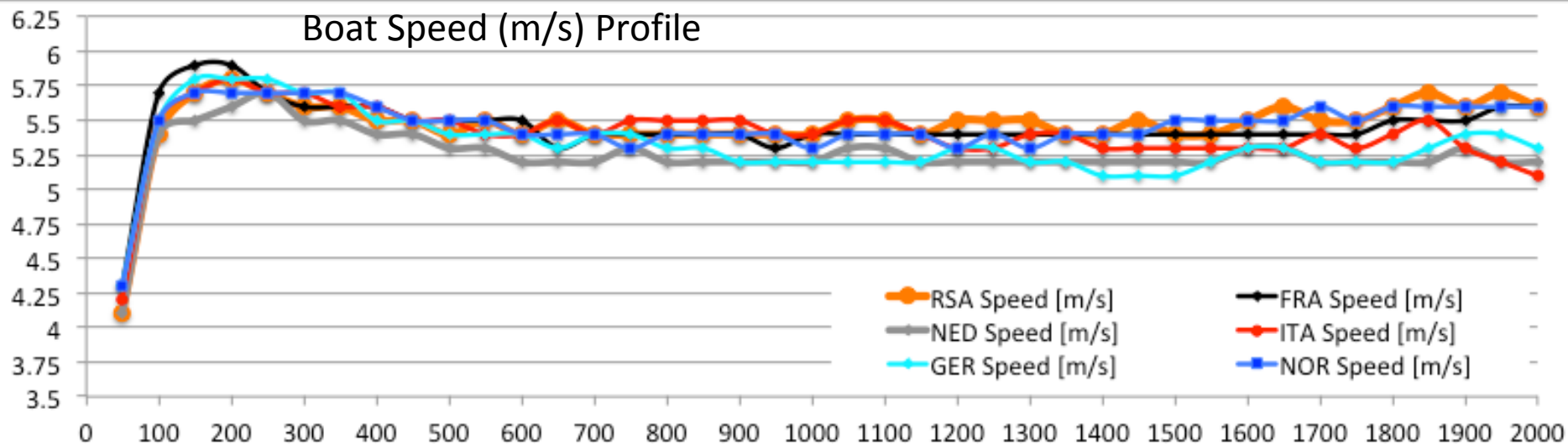
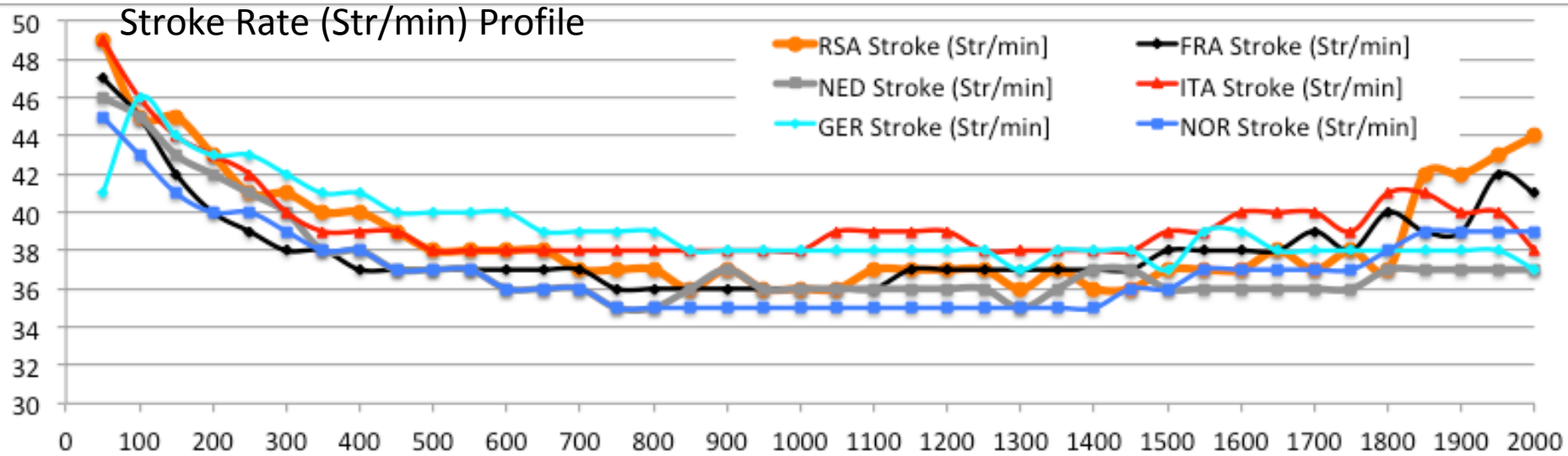
Stroke rate (Str/min) (FISA GPS data)



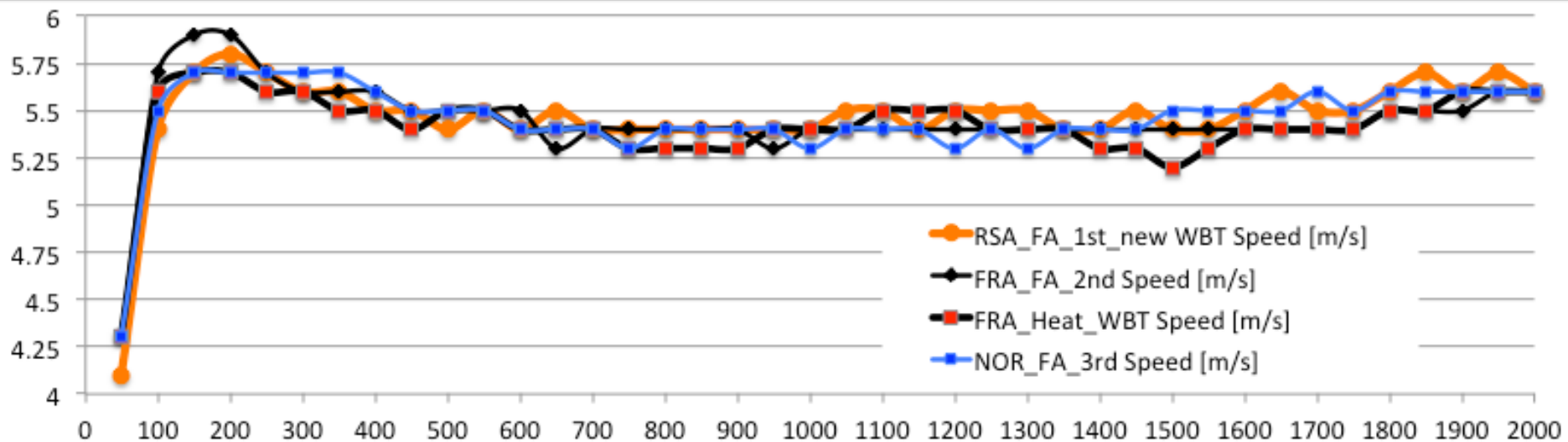
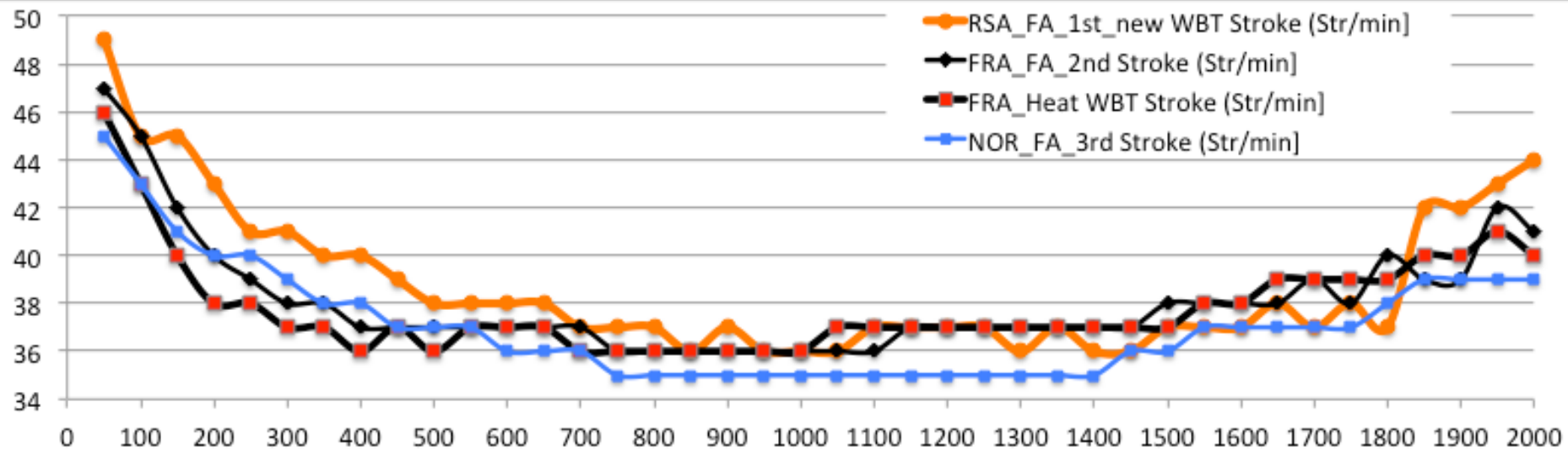
Boat speed (m/s) (FISA GPS data)



Example 1: 2000m Race Analysis: LM2x FA

[illegible]

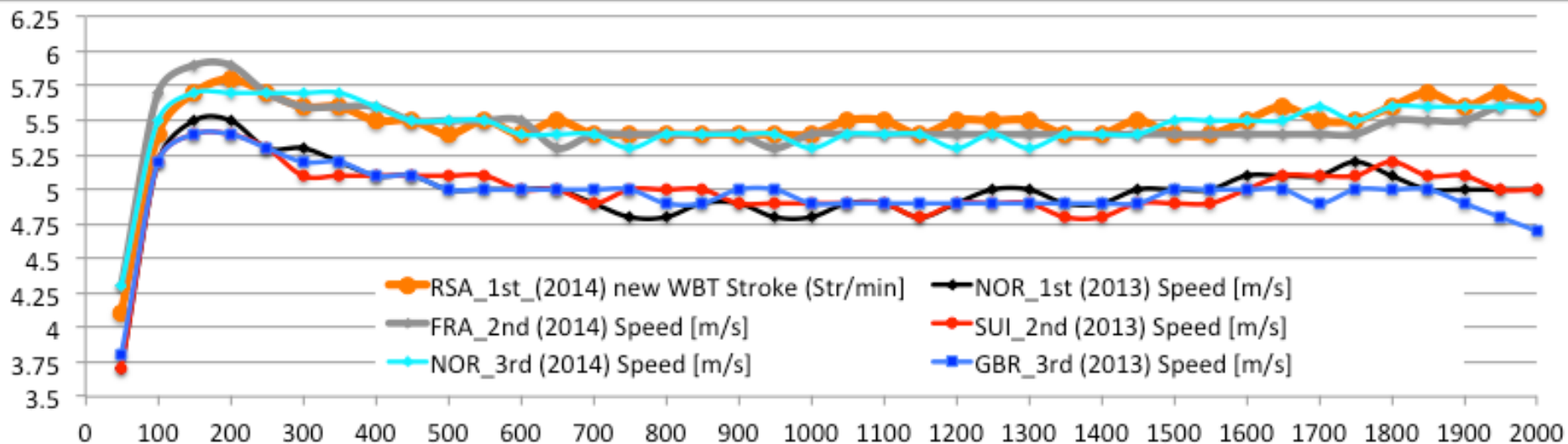
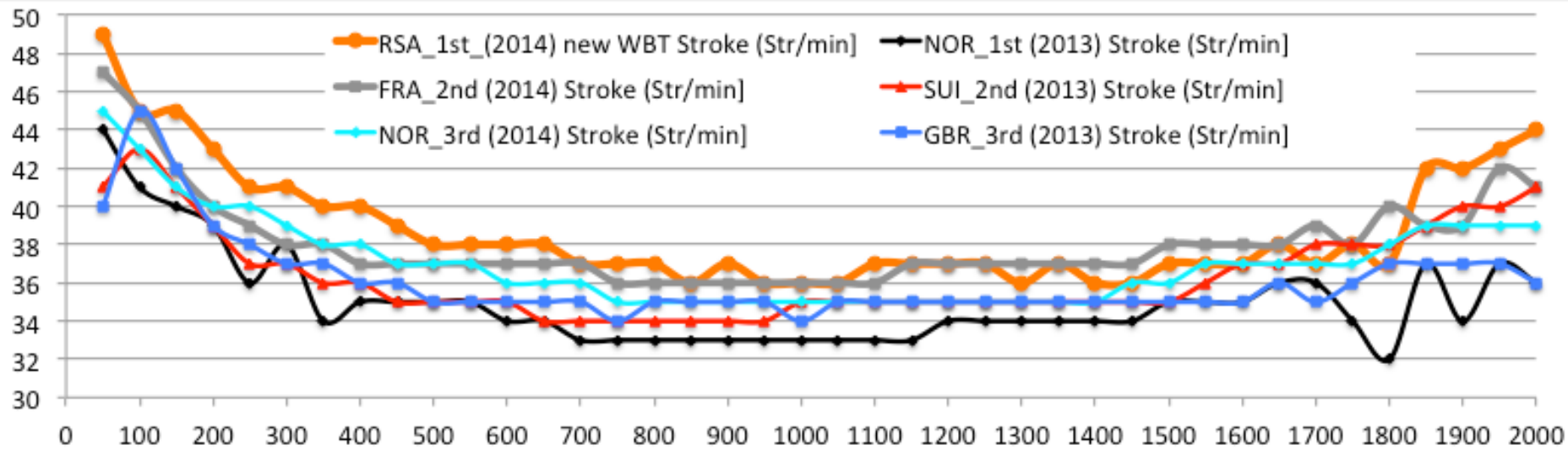
Example 2a: 2000m Race Analysis: LM2x FA Top 3 (WBT) vs FRA (Heat WBT)



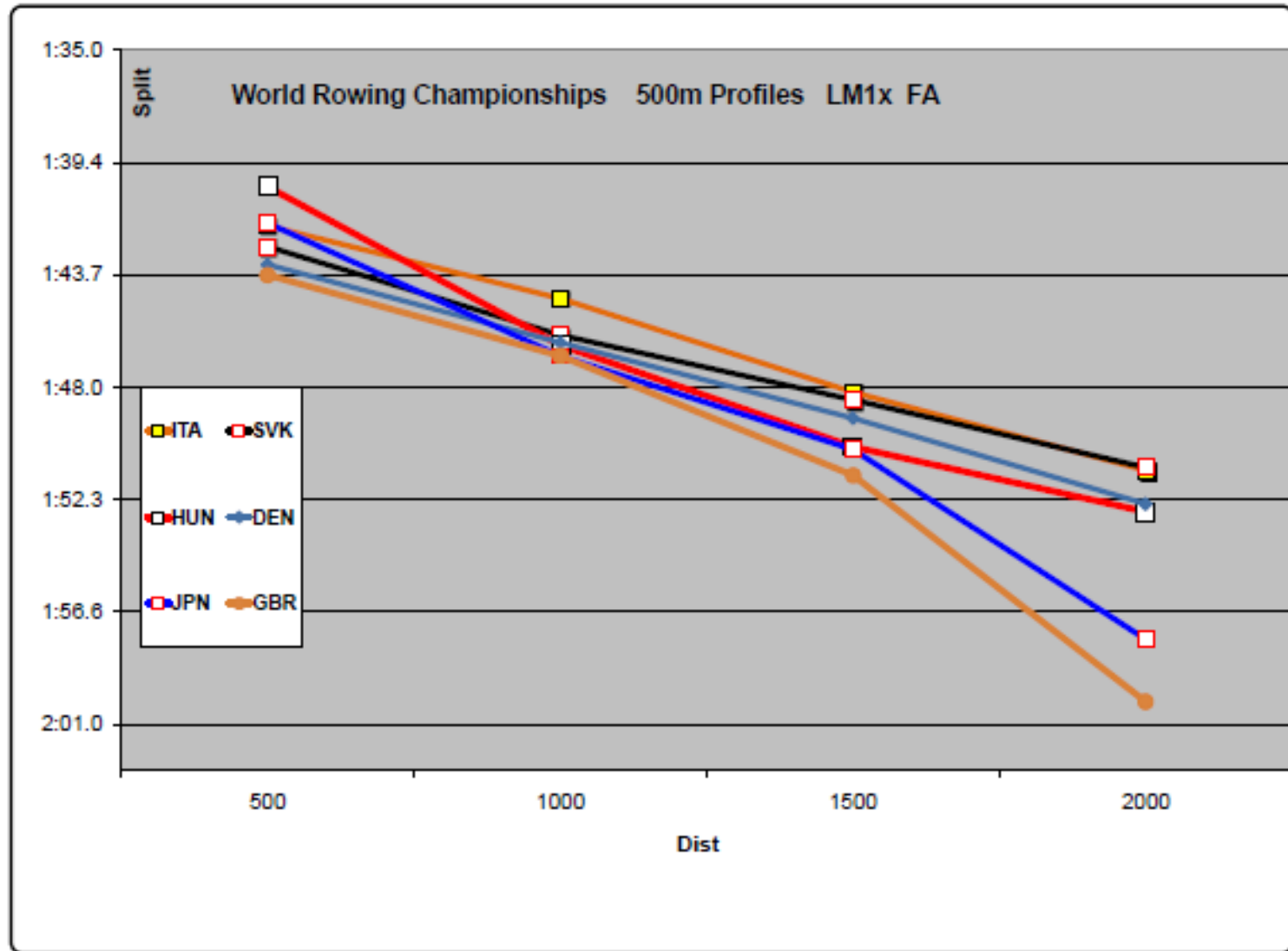
Example 2b:

2000m Race Analysis: LM2x FA

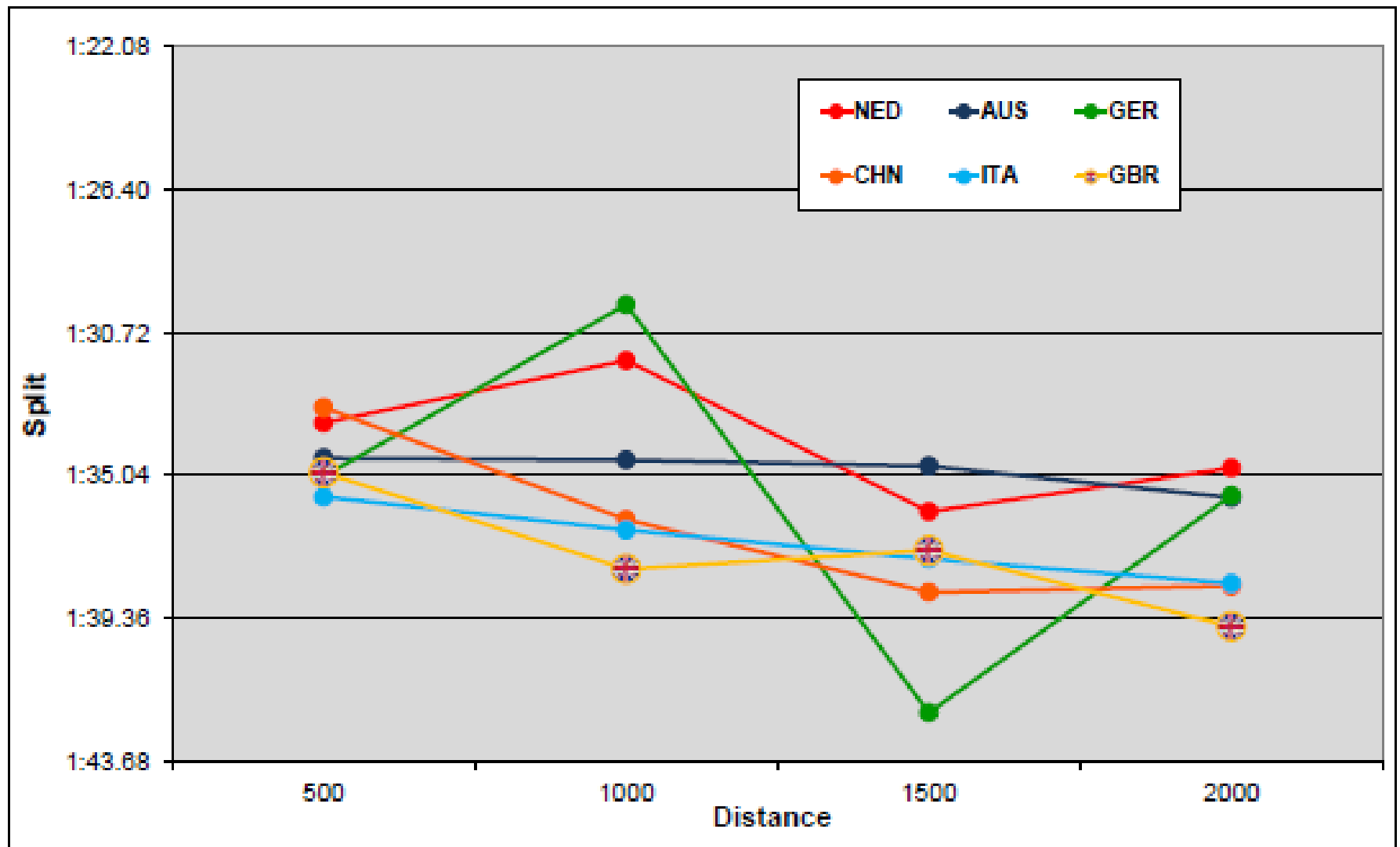
Top 3 (2013) vs Top 3 (2014)



2000m Race Analysis: LM1x FA Karapiro 2010



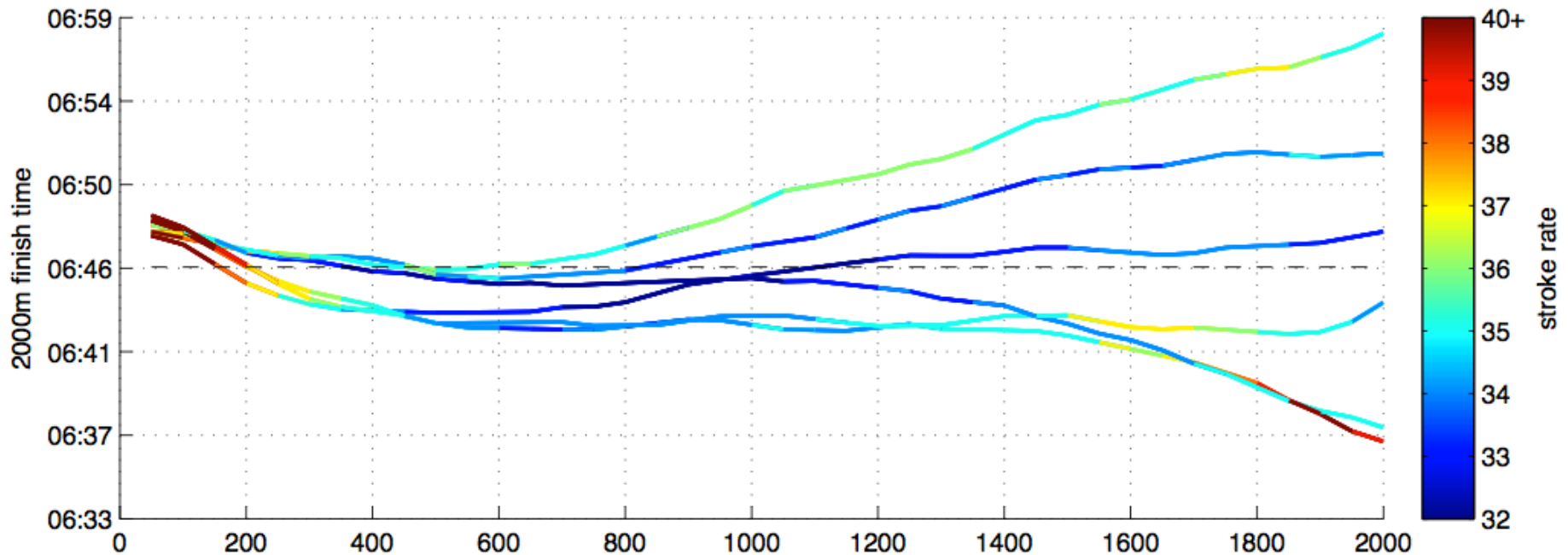
2000m Race Analysis: LW4x FA Amsterdam 2014



Race analysis using GPS data

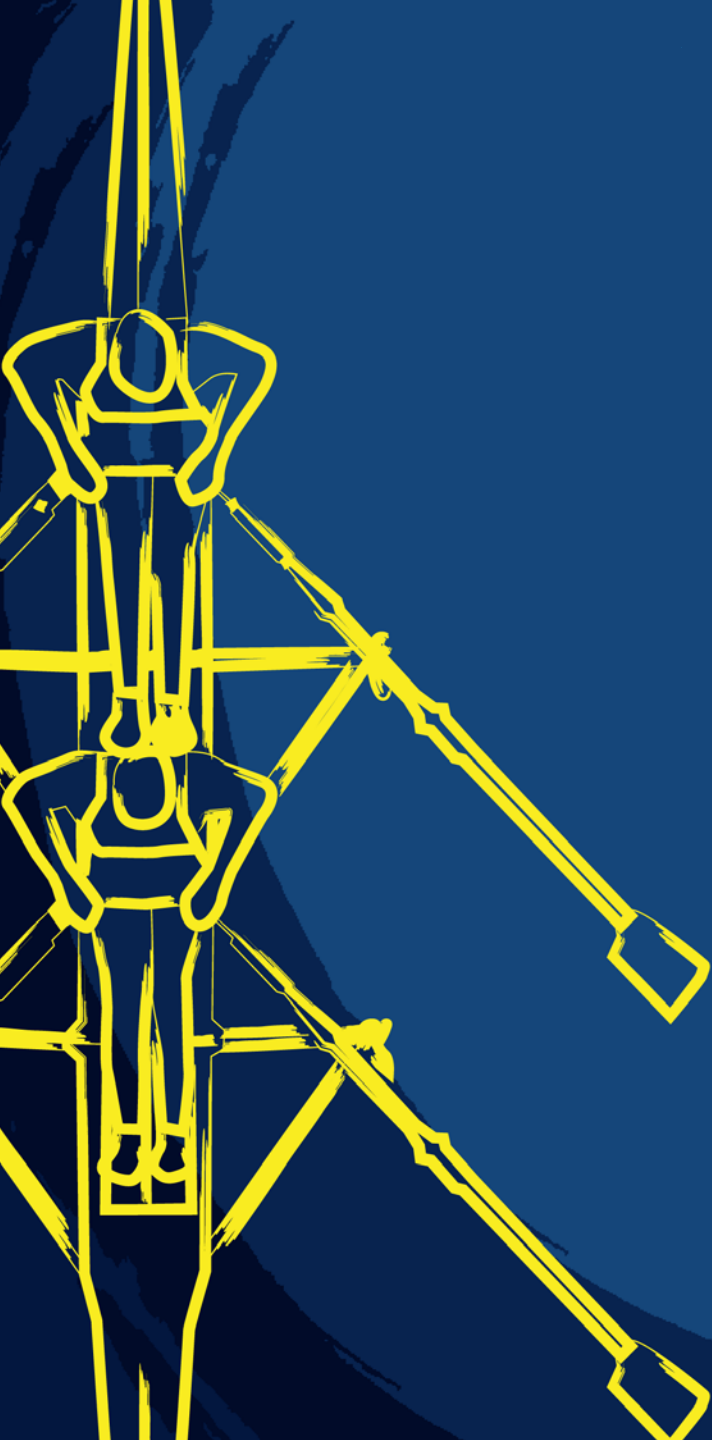
Developed by Mathijs Hofmeister, VU university Amsterdam

Men 1x final





What other applications for
using these data would like?



CLOSE

07/11/2014

