Part 9

Finish

This presentation reflects the World Rowing Statues, Rules of Racing and interpretation of them in effect on Jan 1, 2026.
World Rowing is not responsible for providing updates to this material.

Finish tower – examples (1)

Finish tower – examples (2)

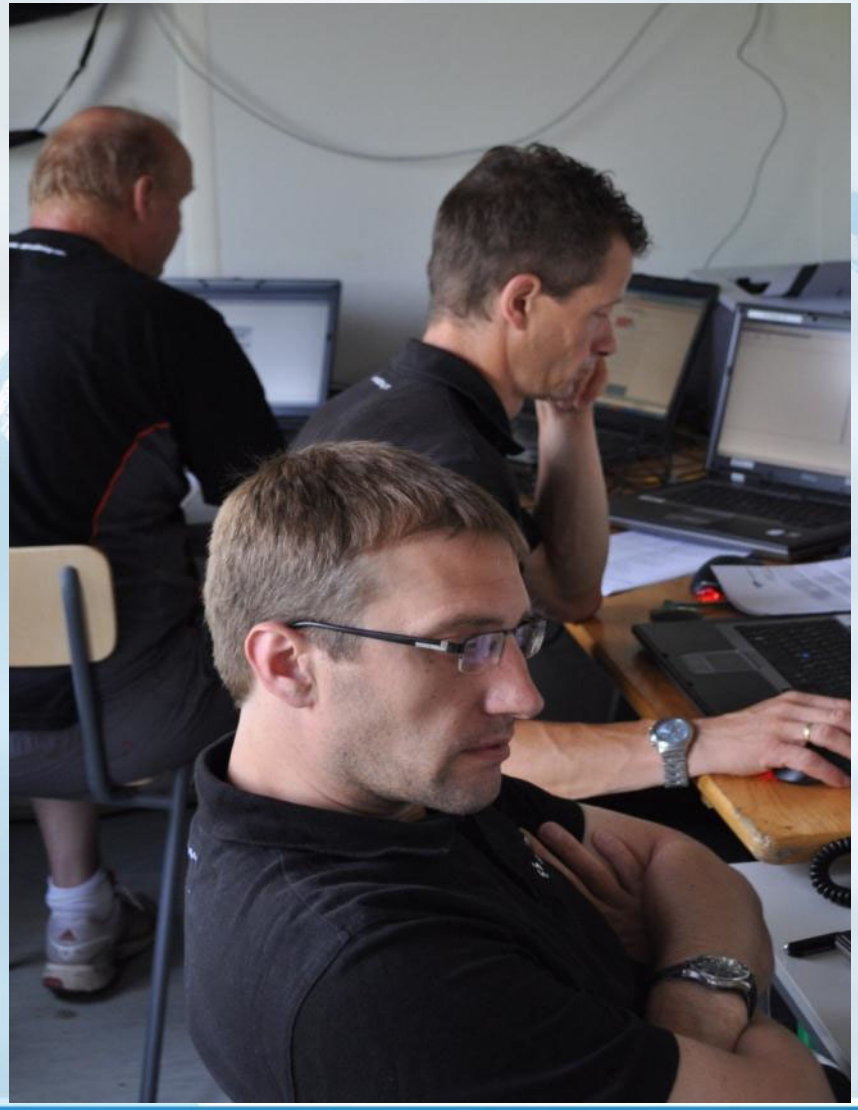
Finish tower – examples (3)

Hwacheon (KOR))

Finish tower – examples (4)

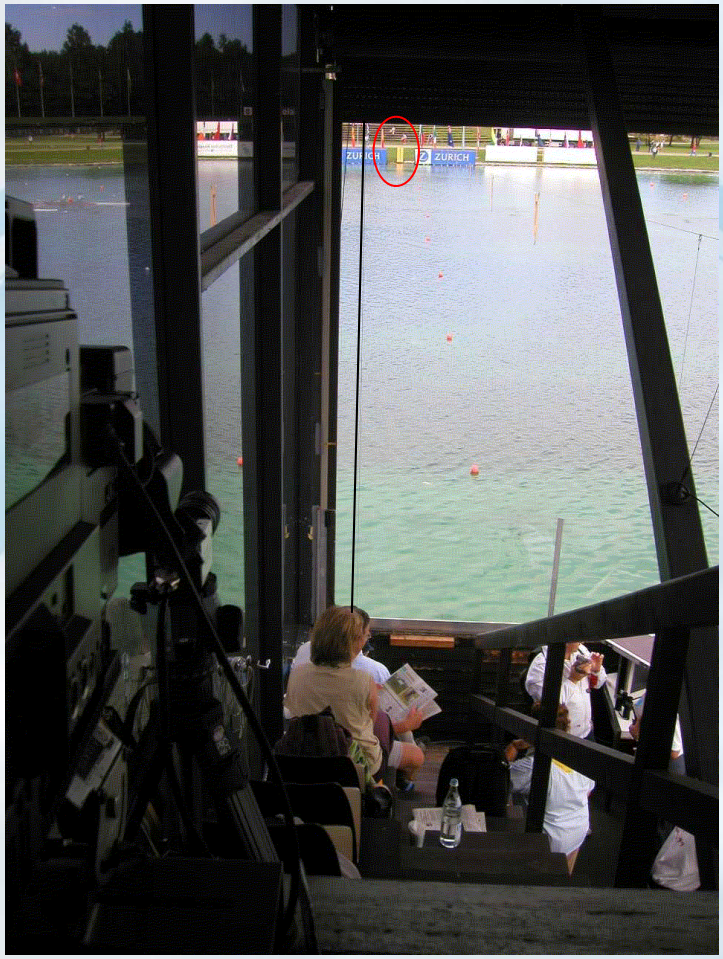
Humans control electronic equipment

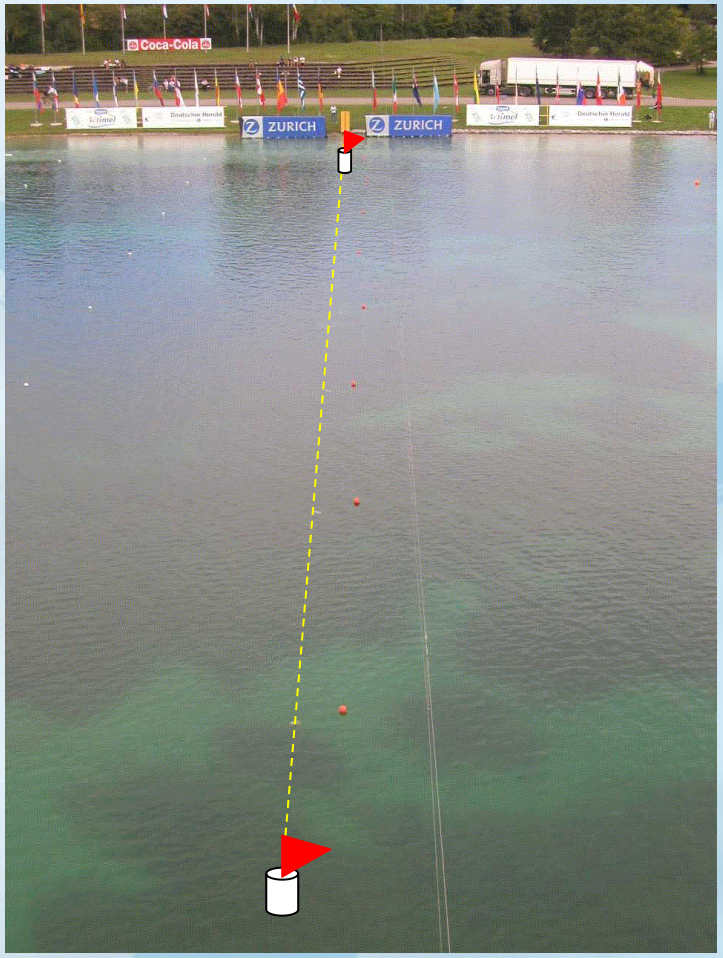
Technicians and equipment



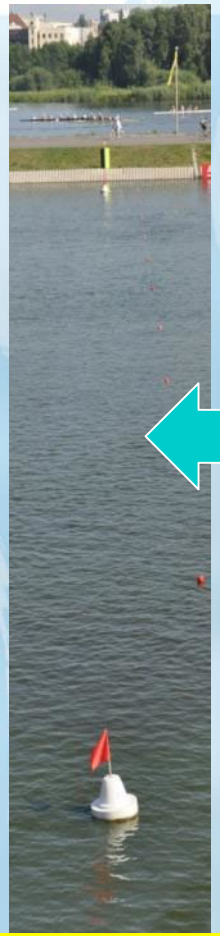
If ‘technical problem’ they are in charge!

Finish line





The finishing line is marked by 2 red flags – no buoys on the line!



The finishing line is exactly between yellow and black

Way to operate at finish tower

WORLD CUP
WORLD CHAMPIONSHIP
OLYMPIC REGATTA

Number of World Rowing jury members

2 PEOPLE

THE RESPONSIBLE

1 JUDGE AT THE FINISH

Location

2 PEOPLE

THE RESPONSIBLE → in front of photo finish/timing screen!

Also called «Senior Judge at Finish »

1 JUDGE AT THE FINISH → on the finish line!

Location of Responsible Finish

Responsible in front of a screen (with their back to the finish line)

Location Finish Judge

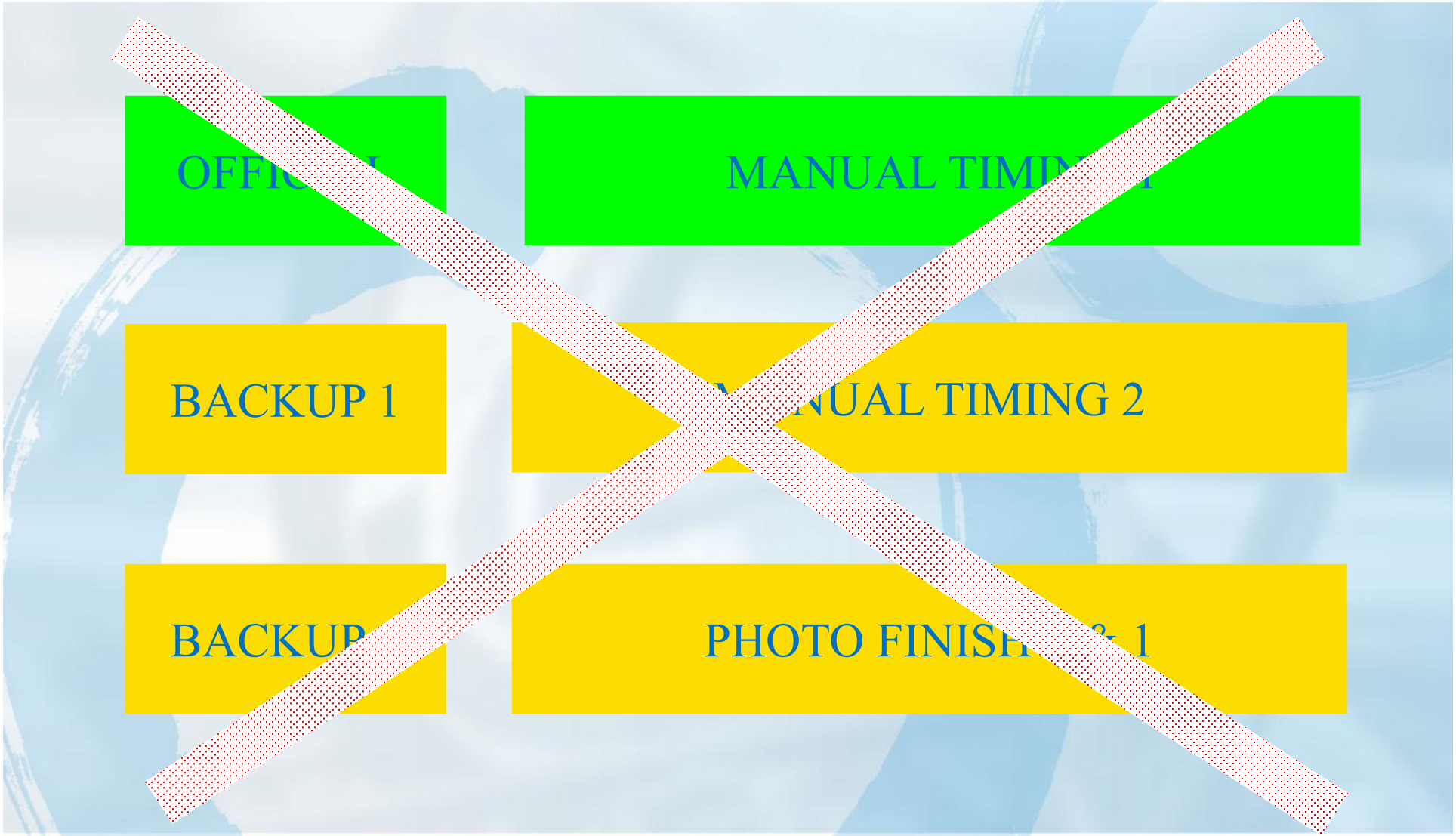
Finish Judge on the finish line

Finish Times

At Olympics/Paralympics, World Rowing Championships and World Cup Regatta:

- ALL FINISH TIMES shown on the result sheets and the score board must be taken from the photo finish.
- Even if we did not have to use the photo finish to determine the finish order.

Operating at international regattas



Operating at World Rowing events

OFFICIAL	PHOTO-FINISH 1

TIMES AND RANKING ARE OFFICIAL BUT WE MUST WAIT UMPIRE'S DECISION

BACKUP 1	PHOTO-FINISH 2
BACKUP 2	MANUAL TIMING

Duties of Finish Judges

Judge at the Finish

- Determine the order of the boats crossing the finish line and announce this verbally to the audience in the finish room;
- Make sure that the umpire validates the race by raising a white flag;
- Indicate to the umpire that the signal was understood by raising a white flag.
- Announce "WHITE FLAG" to people in finish tower

Responsible at the Finish

- During race: monitor intermediate times and ranking;
- List the names/teams in the correct finish order;
- Check the whole content of the 1st copy of the printed result sheet;
- (Check the results shown on the display board);
- Sign the official edition of the results;
- Declare the result of the race "OFFICIAL"

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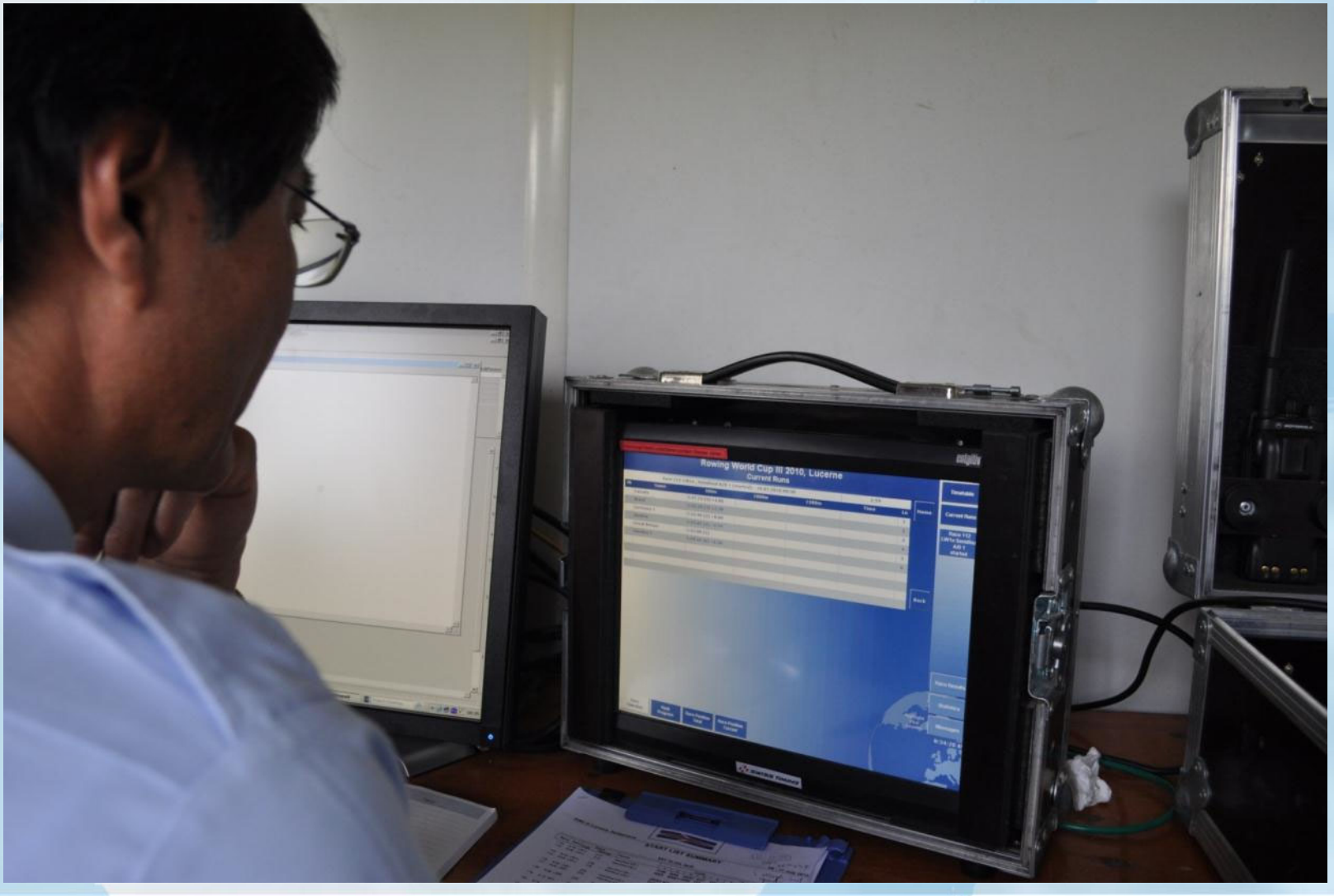
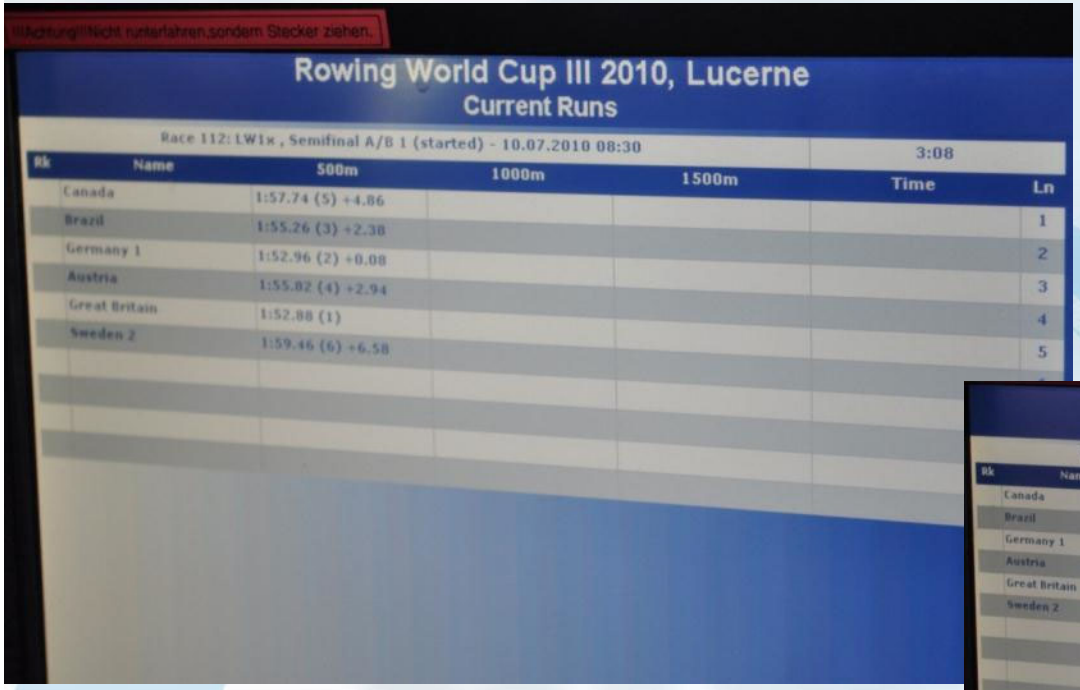
Responsible checks split times



Responsible checks split times



1 race on the course

2 races on the course

Duties of Finish Judges

Judge at the Finish

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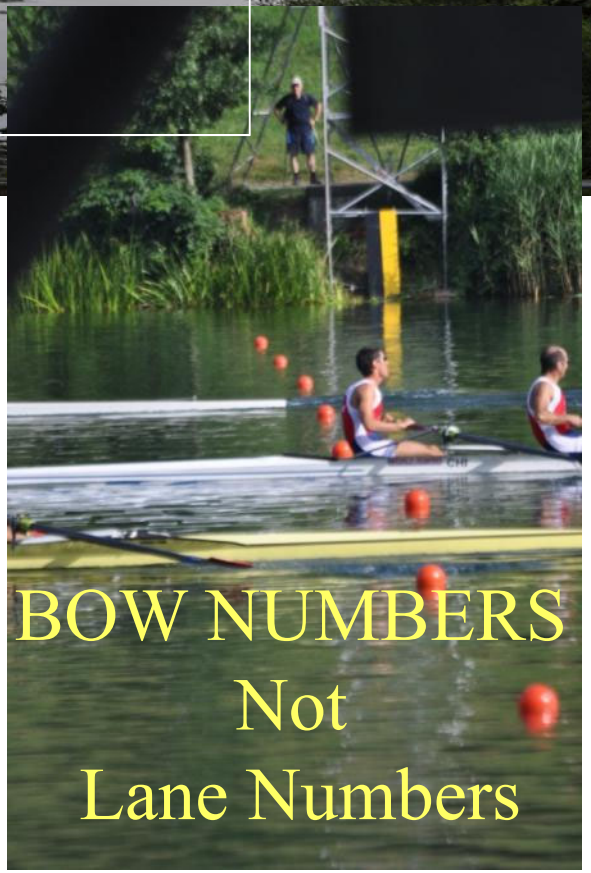
Judge at finish:

5 – 4 – 1 – 3 – 6 – 2



BOW NUMBERS

Not

Lane Numbers

Duties of Finish Judges

Judge at the Finish

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Umpire validates race (1)

First flag towards crews

Umpire validates race (2)

Secondly flag towards finish tower

Duties of Finish Judges

Judge at the Finish

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Responsible at the Finish

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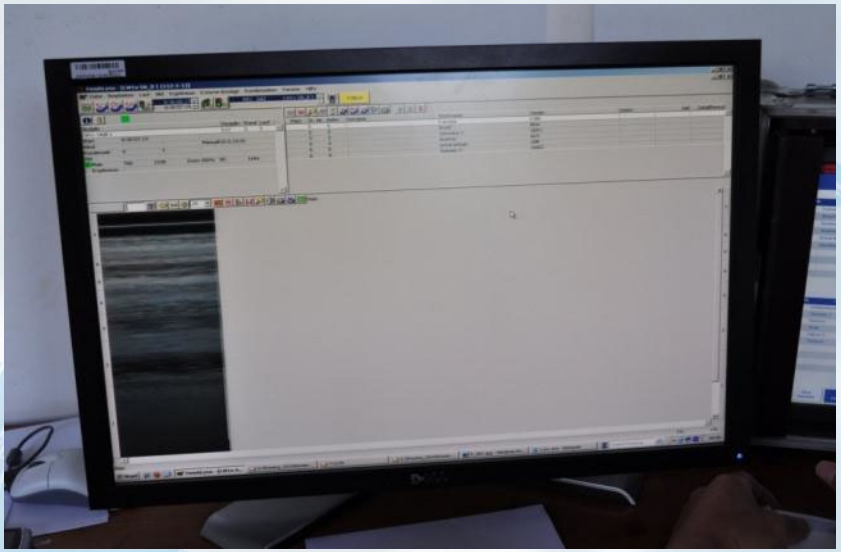
Finish judge replies

Clear and immediate

Photo finish develops



As soon the crews are crossing the finish line, the photo finish starts to develop and the operator starts to work

The whole sequence…

Before continuing…

- What is a photo finish?
- How does this work?
- How do interpret the image(s)?

Where is the finish line?

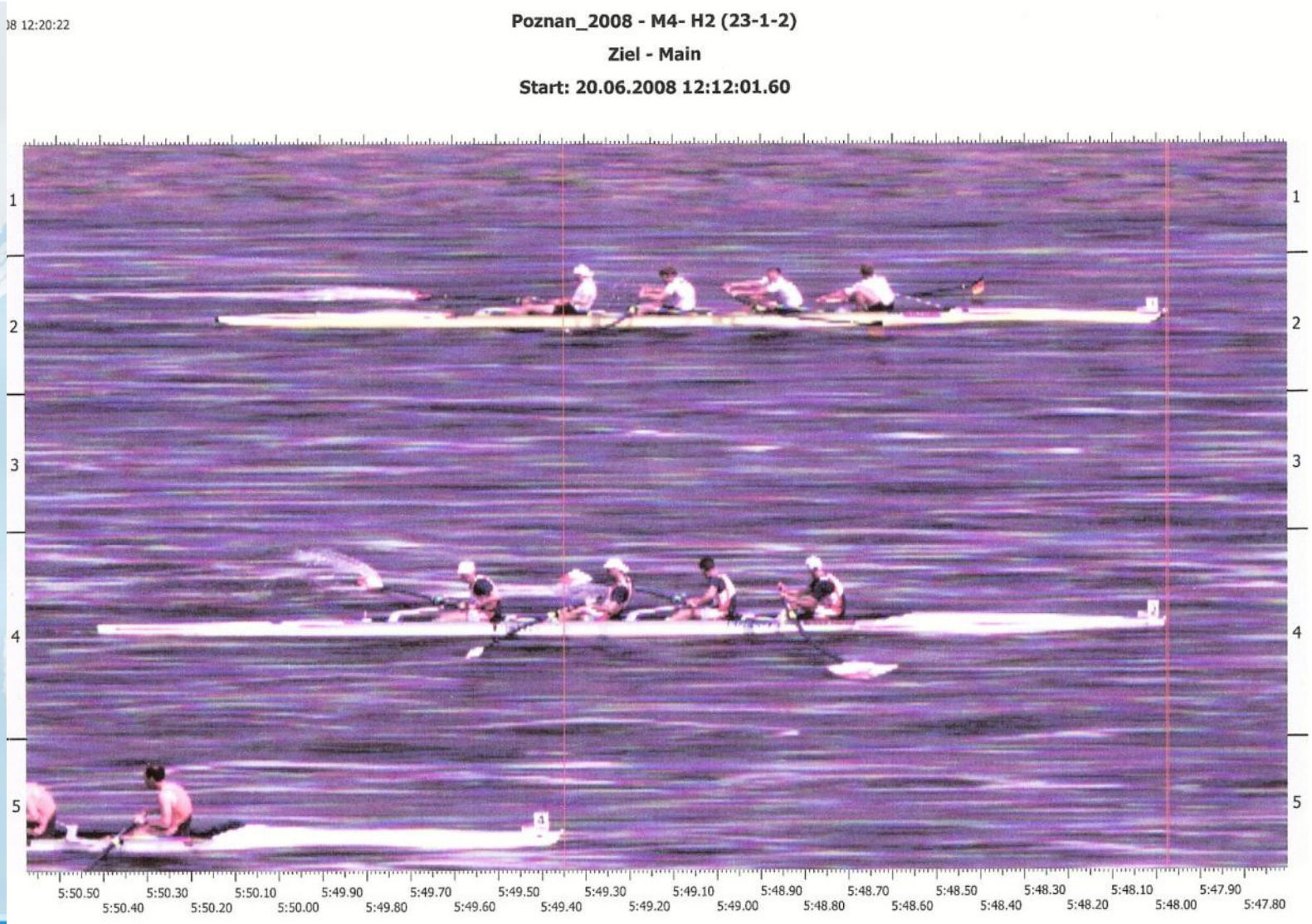
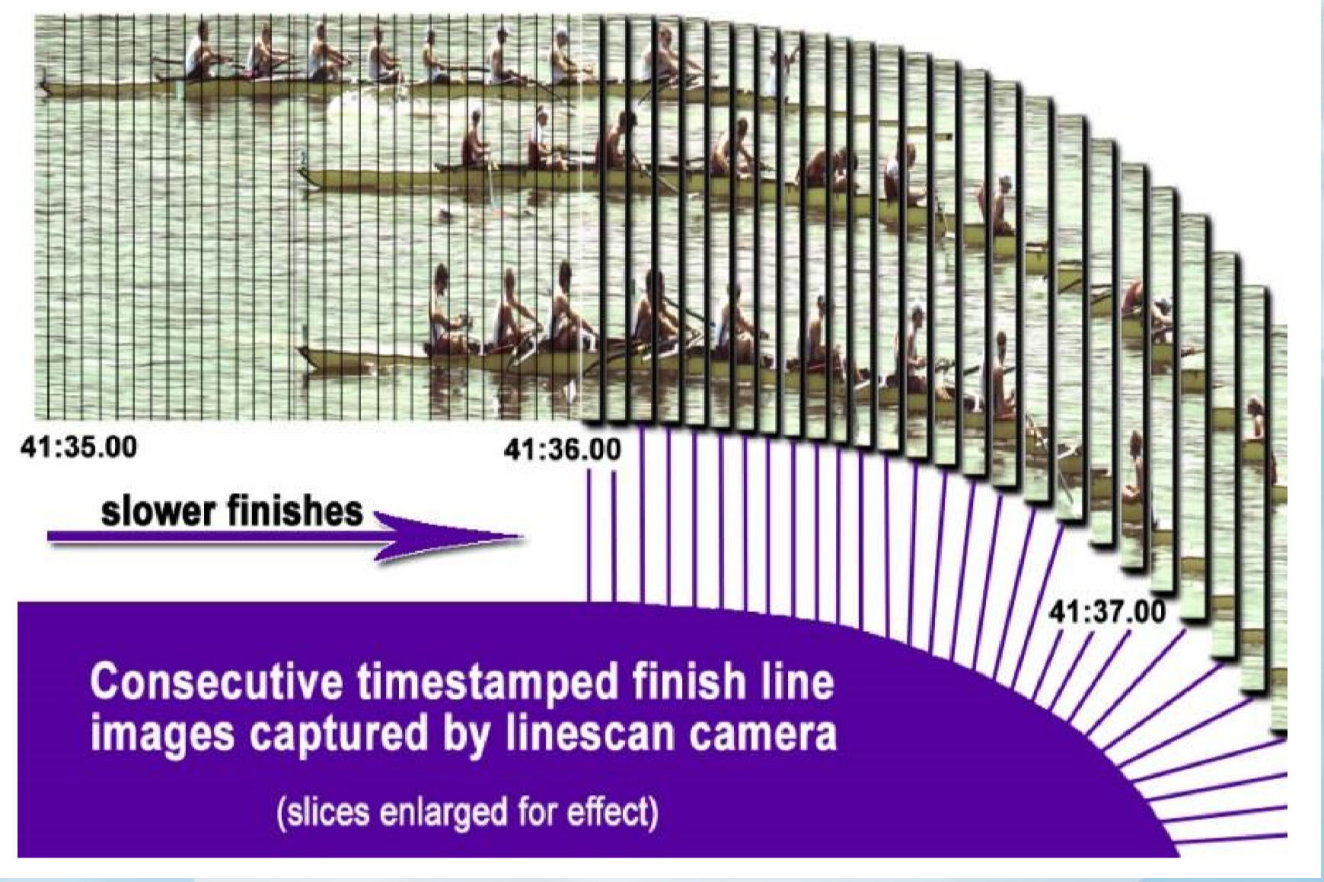


Photo finish principles

- Contrary to a normal camera, the lens is not circular;
- Indeed, the camera has a very thin linear lens;
- The camera continously takes a number pictures per time unit from the same location;
- The time unit is minimum 1/100 sec;
- That location is the (thin) finish line;
- Those thin pictures are added one after another;
- The result is a ‘picture’ of the finish line at different moments.

Note: The timing is linked to and activated by the start system

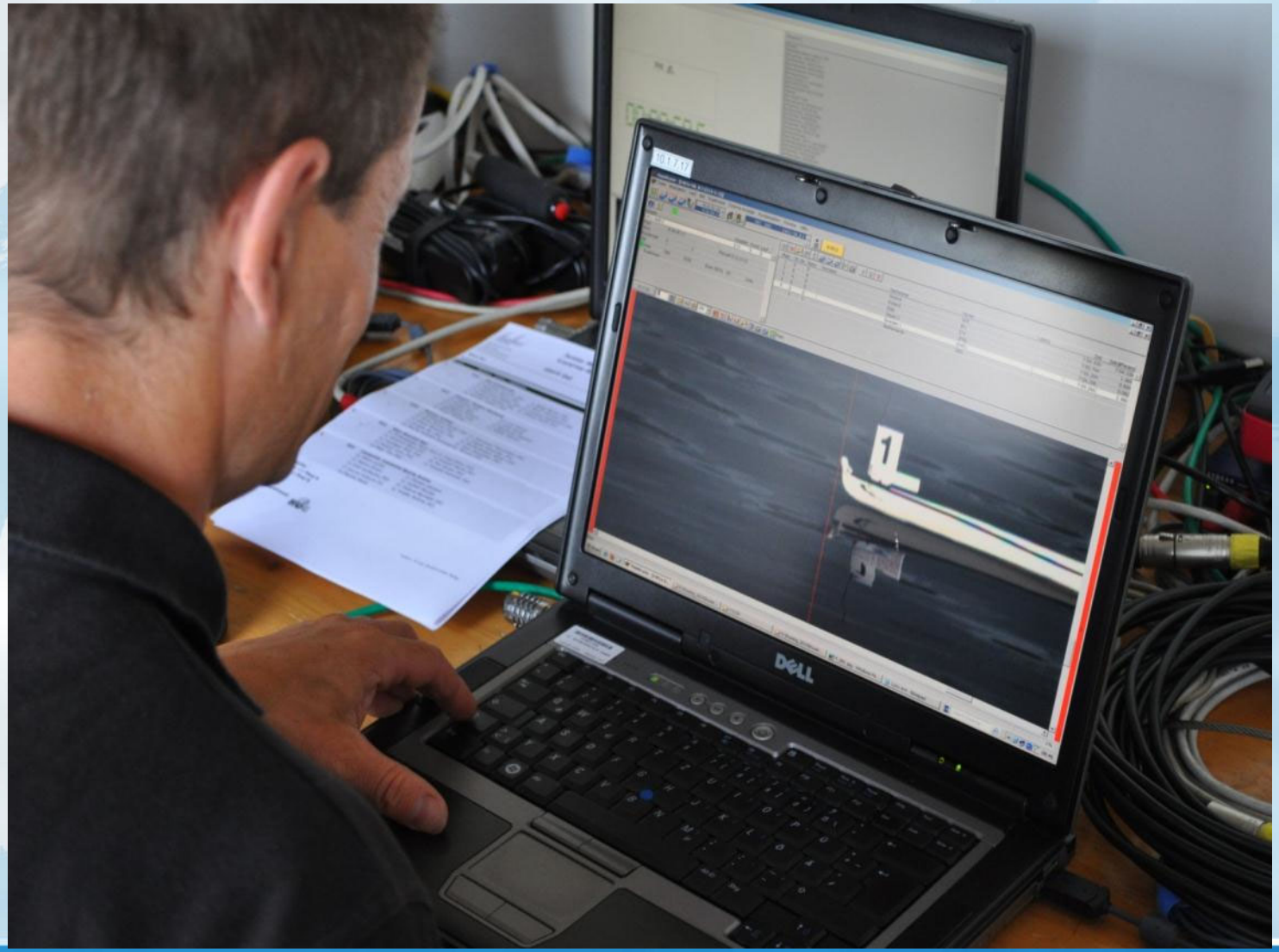
View on the finish line at … moments …



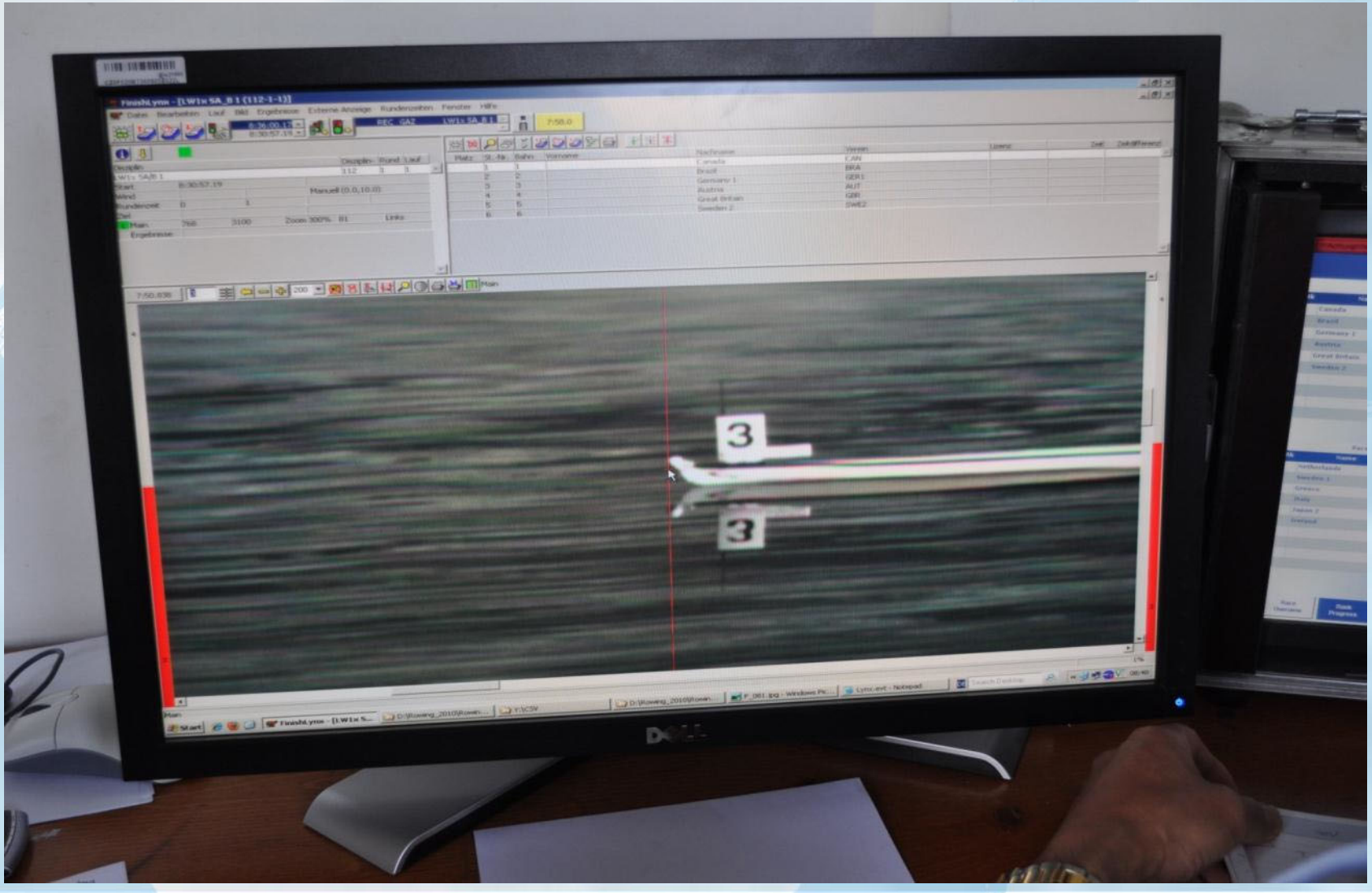
- Each part of the photo finish represents what occurred on the finishing line at one precise time (or part of a second).
- It is possible go to 1000 parts in a second (= 1/1000 sec) or more.
- However, the minimum precision required is **1/100 sec.**

Up to 1/10.000 sec

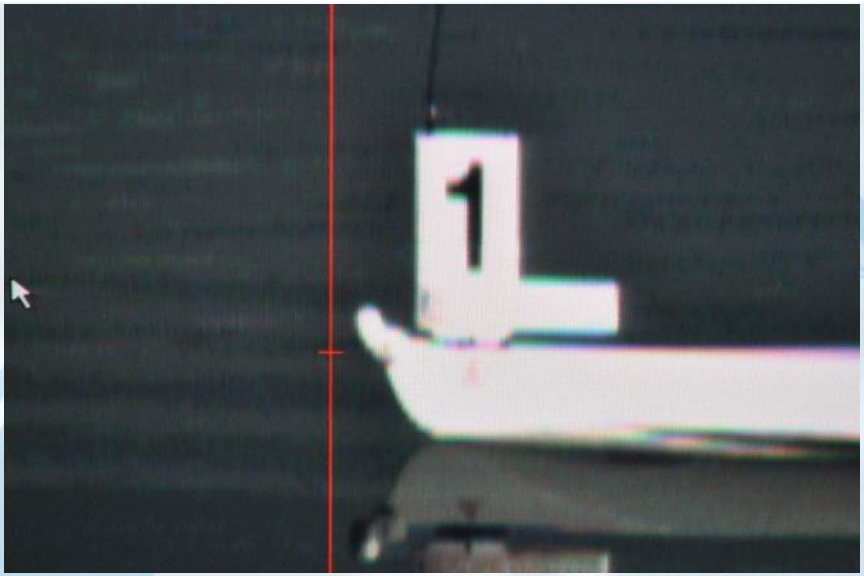
Let’s come back to the operator’s work…

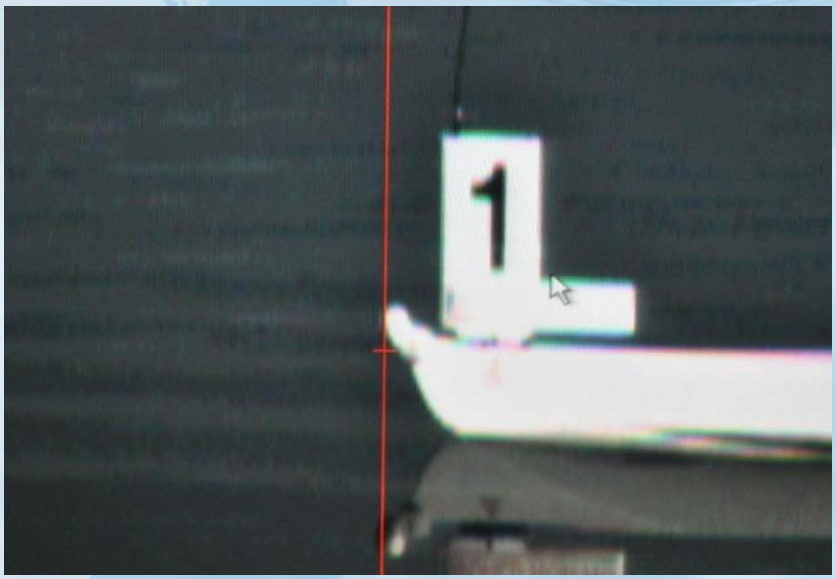


As seen and controlled by Responsible at the Finish



a. Cursor exactly at bow ball

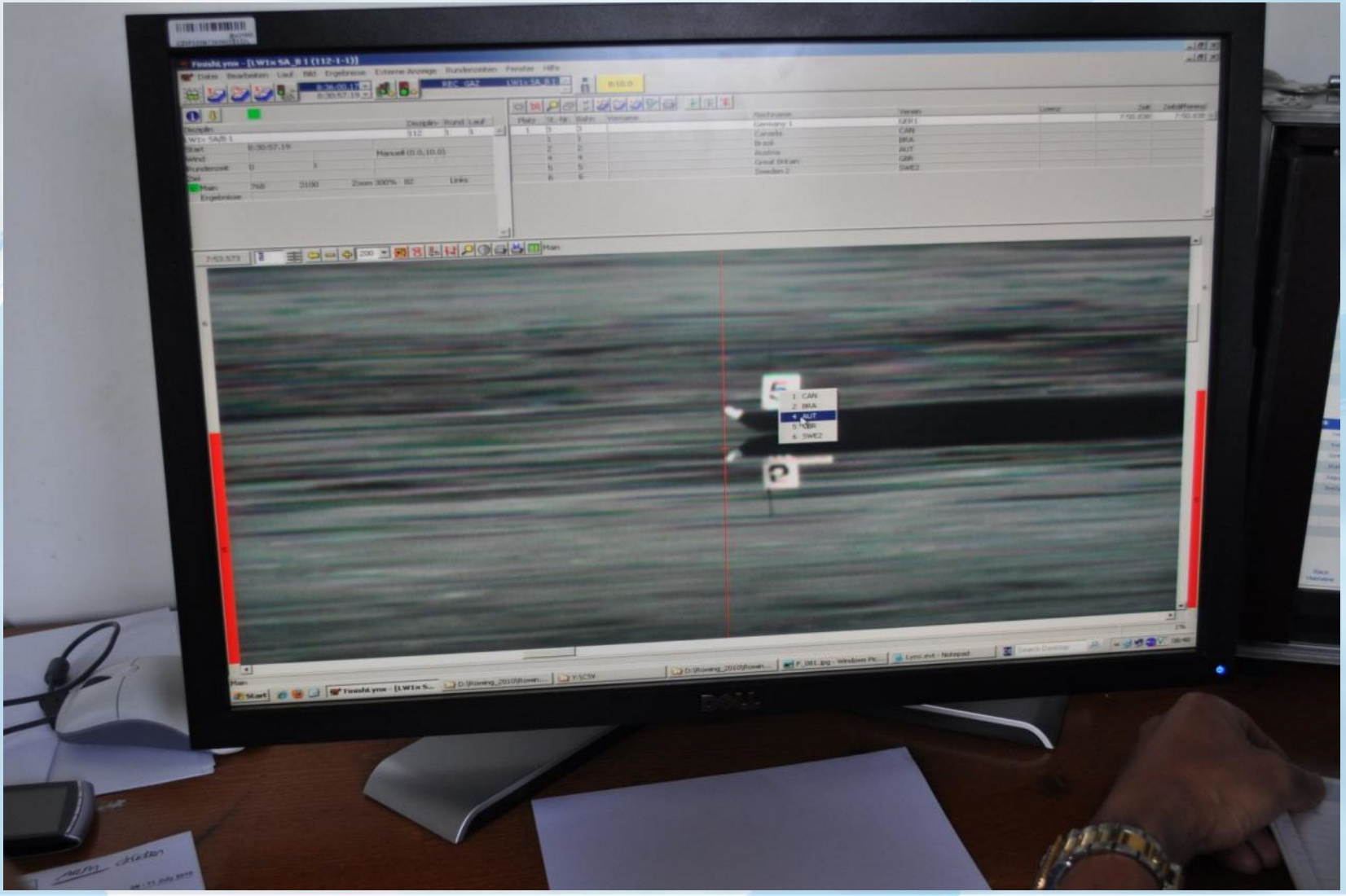




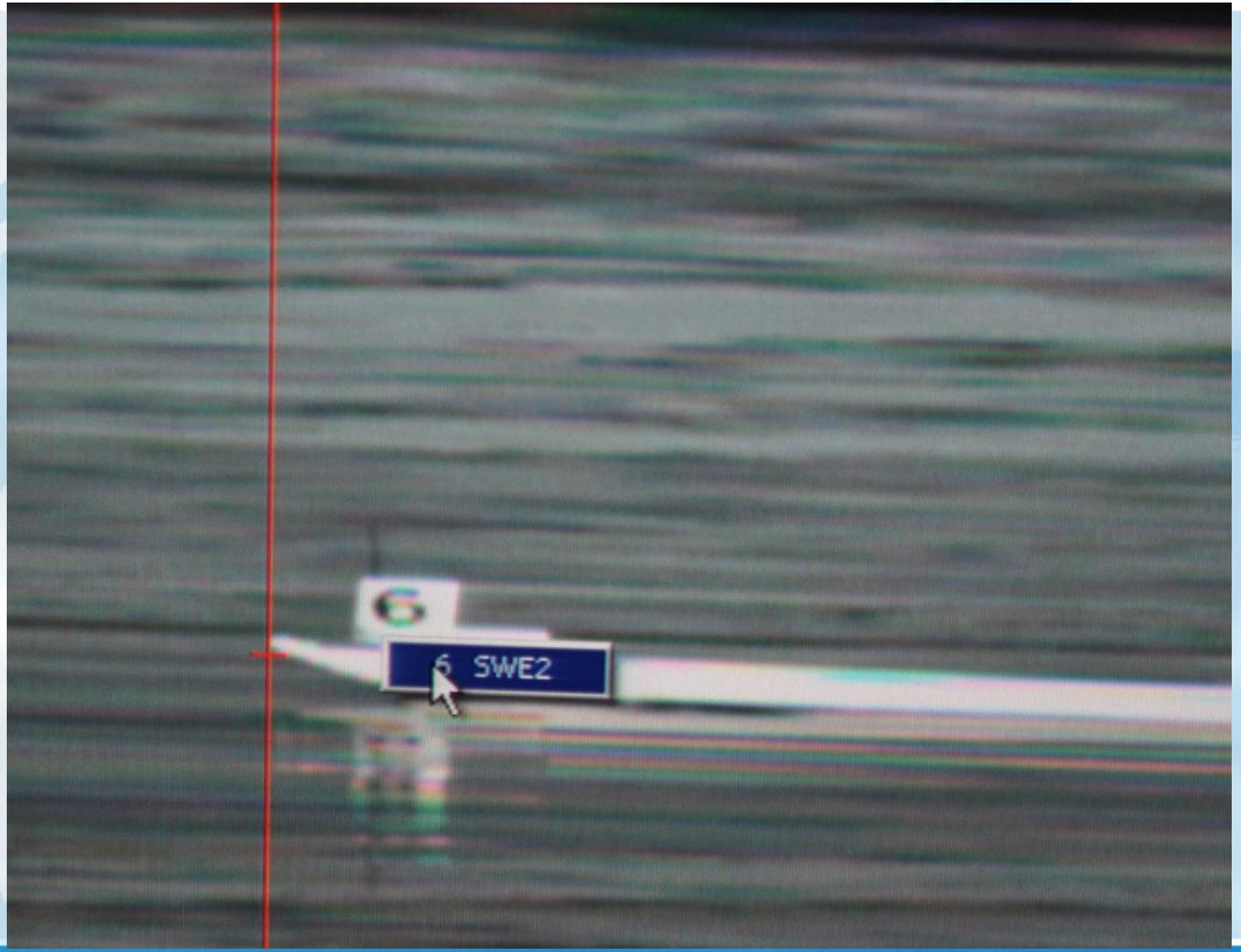
a. Cursor exactly at bow ball

Done for all crews

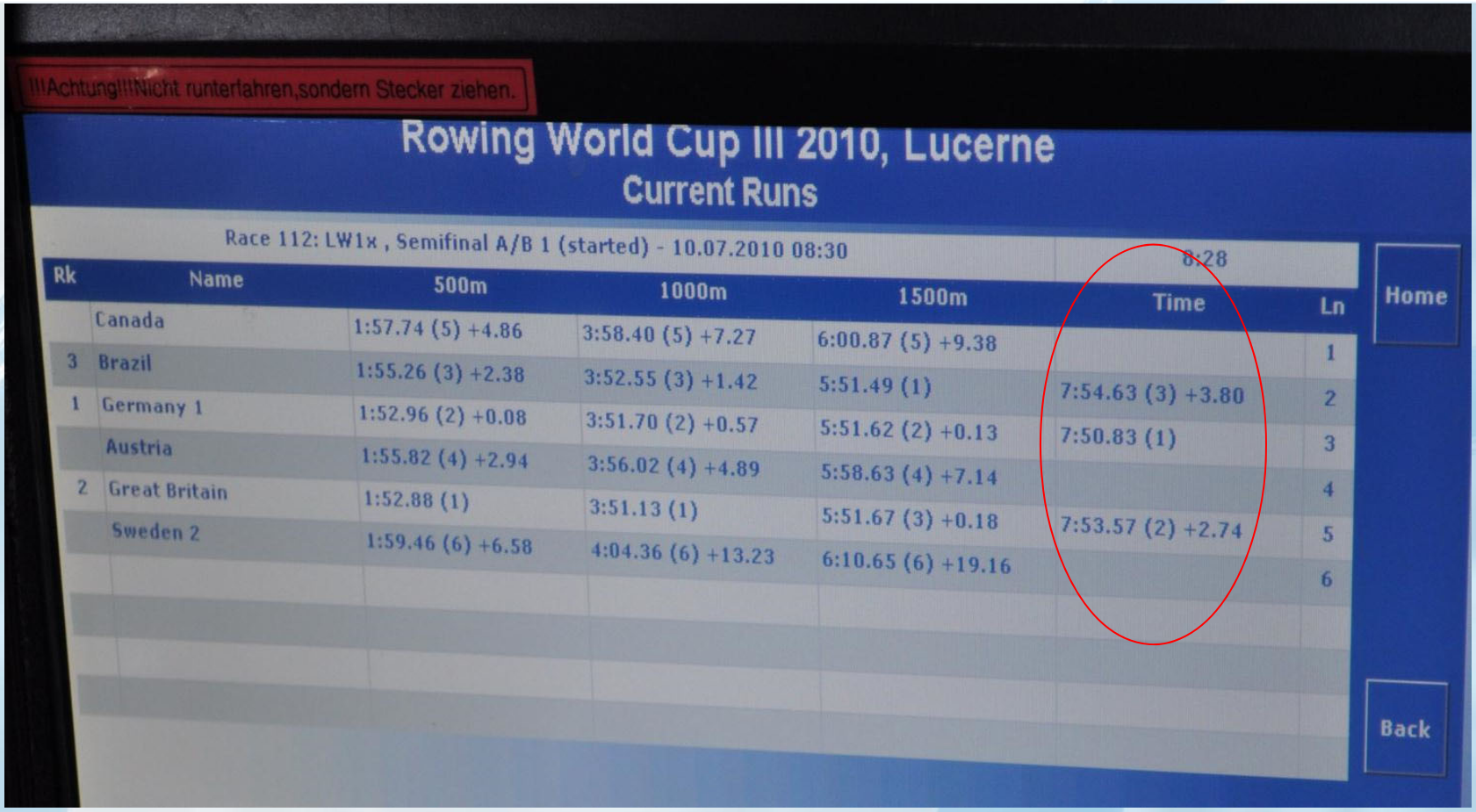
b. Matching crew name to each time (or cursor line)



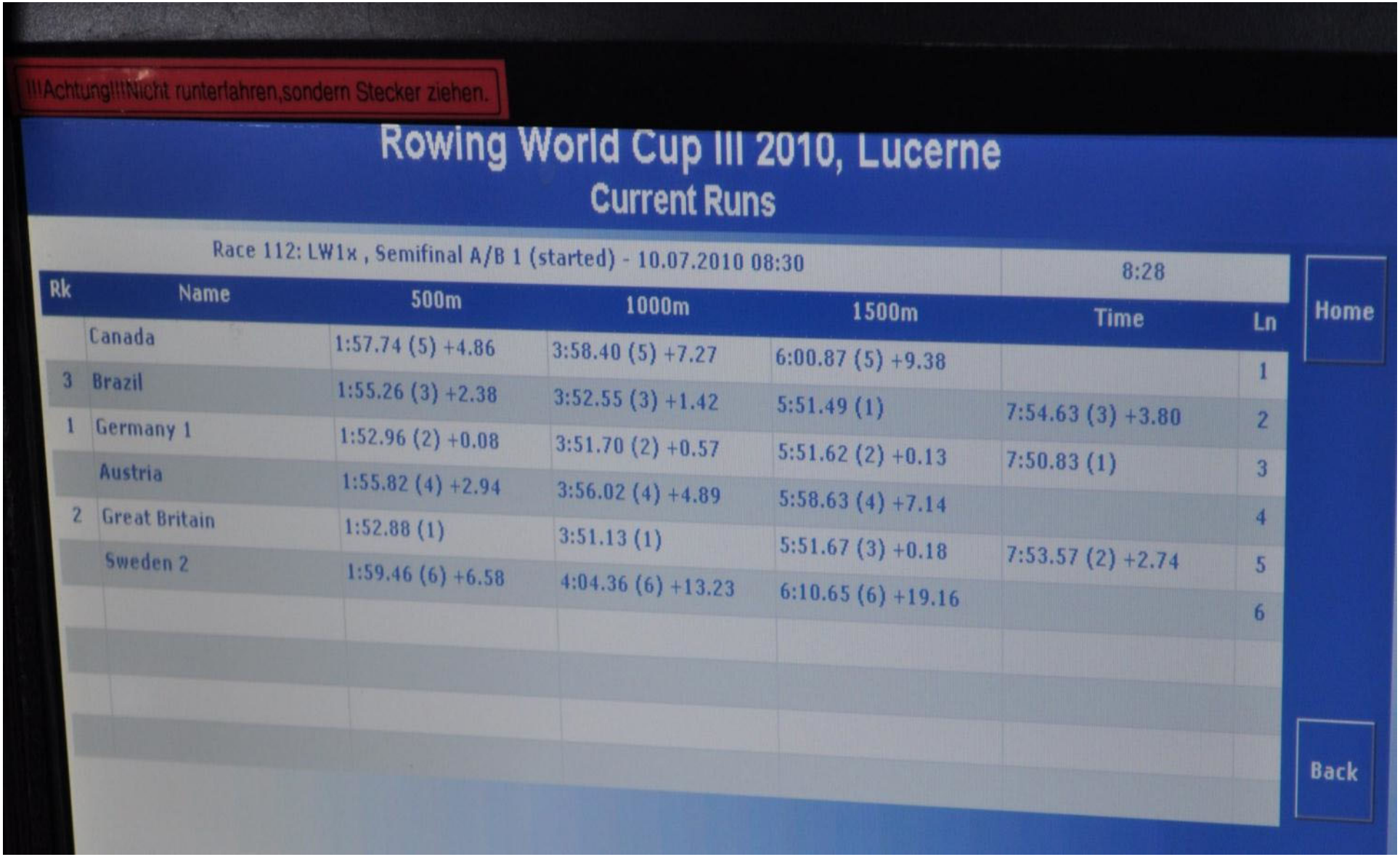
End of ‘matching’



Matching=finish time per crew



The finish time of each crew appears on the screen of the Responsible at the Finish



Rk	Name	500m	1000m	1500m	Time	Ln
	Canada	1:57.74 (5) +4.86	3:58.40 (5) +7.27	6:00.87 (5) +9.38		1
3	Brazil	1:55.26 (3) +2.38	3:52.55 (3) +1.42	5:51.49 (1)	7:54.63 (3) +3.80	2
1	Germany 1	1:52.96 (2) +0.08	3:51.70 (2) +0.57	5:51.62 (2) +0.13	7:50.83 (1)	3
	Austria	1:55.82 (4) +2.94	3:56.02 (4) +4.89	5:58.63 (4) +7.14		4
2	Great Britain	1:52.88 (1)	3:51.13 (1)	5:51.67 (3) +0.18	7:53.57 (2) +2.74	5
	Sweden 2	1:59.46 (6) +6.58	4:04.36 (6) +13.23	6:10.65 (6) +19.16		6

When ‘linking’ each bow, the finish time of each crew appears on the screen of the Responsible at the Finish

Duties of Finish Judges

Judge at the Finish

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- Declare the result of the race "OFFICIAL"

The Responsible will be presented a result sheet and will start to check the full content

Checking a result sheet

8 (Event)

Results
Men's Single Sculls
MON 22 SEP 2025

M1x
H1
Race 34

World Best:	NZL	MANSON Robert	Poznan (POL) 2017	World Cup	**6:30.74**
World Champ' Best:	NZL	DRYSDALE Mahe	Poznan (POL) 2009	World Championships	**6:33.35**
World Champion:	GER	ZEIDLER Oliver	Belgrade (SRB) 2023	World Championships	**6:38.08**

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog. Code
1	2	NED	van DORP Simon	1:37.58	(1)	3:18.47	(1)	4:58.72	(1)	**6:43.03**		Q
						1:40.89	(1)	1:40.25	(1)	**1:44.31**	**(3)**	
2	6	GRE	NTOUSKOS Stefanos	1:37.98	(2)	3:20.01	(2)	5:02.22	(2)	**6:45.09**		Q
						1:42.03	(2)	1:42.21	(2)	**1:42.87**	**(2)**	
				0.40		1.54		3.50		**2.06**		
3	5	DEN	SECHER Bastian	1:40.64	(3)	3:25.47	(3)	5:08.08	(3)	**6:48.35**		TBC
						1:44.83	(4)	1:42.61	(3)	**1:40.27**	**(1)**	
				3.06		7.00		9.36		**5.32**		
4	3	POL	LITKA Cezary	1:41.79	(4)	3:26.24	(4)	5:12.95	(4)	**6:59.13**		TBC
						1:44.45	(3)	1:46.71	(5)	**1:46.18**	**(5)**	
				4.21		7.77		14.23		**16.10**		
5	4	TUN	BEN HAMMOUDA Fedi	1:44.19	(5)	3:31.72	(5)	5:17.68	(5)	**7:02.60**		TBC
						1:47.53	(5)	1:45.96	(4)	**1:44.92**	**(4)**	
				6.61		13.25		18.96		**19.57**		
6	1	SUD	AHMED Abdalla	1:45.73	(6)	3:35.58	(6)	5:27.76	(6)	**7:16.55**		TBC
						1:49.85	(6)	1:52.18	(6)	**1:48.79**	**(6)**	
				8.15		17.11		29.04		**33.52**		

Result sheet : checking 1 – bow numbers order

8 (Event)

Results

Men's Single Sculls

MON 22 SEP 2025

M1x

H1

Race 34

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						1:42.03	(2)	1:42.21	(2)	**1:42.87**	**(2)**	
				0.40		1.54		3.50		**2.06**		
3	5	DEN	SECHER Bastian	1:40.64	(3)	3:25.47	(3)	5:08.08	(3)	**6:48.35**		TBC
						1:44.83	(4)	1:42.61	(3)	**1:40.27**	**(1)**	
				3.06		7.00		9.36		**5.32**		
4	3	POL	LITKA Cezary	1:41.79	(4)	3:26.24	(4)	5:12.95	(4)	**6:59.13**		TBC
						1:44.45	(3)	1:46.71	(5)	**1:46.18**	**(5)**	
				4.21		7.77		14.23		**16.10**		
5	4	TUN	BEN HAMMOUDA Fedi	1:44.19	(5)	3:31.72	(5)	5:17.68	(5)	**7:02.60**		TBC
						1:47.53	(5)	1:45.96	(4)	**1:44.92**	**(4)**	
				6.61		13.25		18.96		**19.57**		
6	1	SUD	AHMED Abdalla	1:45.73	(6)	3:35.58	(6)	5:27.76	(6)	**7:16.55**		TBC
						1:49.85	(6)	1:52.18	(6)	**1:48.79**	**(6)**	
				8.15		17.11		29.04		**33.52**		

Result sheet : checking 2 - nations

8 (Event)

Results

Men's Single Sculls

MON 22 SEP 2025

M1x **H1** **Race 34**

World Best:	NZL	MANSON Robert	Poznan (POL) 2017	World Cup	6:30.74
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						1:42.03	(2)	1:42.21	(2)	**1:42.87**	(2)	
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				3.06		7.00		9.36		**5.32**		
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						1:47.53	(5)	1:45.96	(4)	**1:44.92**	(4)	
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						1:49.85	(6)	1:52.18	(6)	**1:48.79**	(6)	
				8.15		17.11		29.04		**33.52**		

Result sheet : checking 3 - finish times

8 (Event)

Results
Men's Single Sculls
MON 22 SEP 2025

M1x
H1
Race 34

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World Champ' Best:	NZL	DRYSDALE Mahe	Poznan (POL) 2009	World Championships	6:33.35
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						1:42.03	(2)	1:42.21	(2)	1:42.87	(2)	
				0.40		1.54		3.50		2.06		
3	5	DEN	SECHER Bastian	1:40.64	(3)	3:25.47	(3)	5:08.08	(3)	6:48.35		TBC
						1:44.83	(4)	1:42.61	(3)	1:40.27	(1)	
				3.06		7.00		9.36		5.32		
4	3	POL	LITKA Cezary	1:41.79	(4)	3:26.24	(4)	5:12.95	(4)	6:59.13		TBC
						1:44.45	(3)	1:46.71	(5)	1:46.18	(5)	
				4.21		7.77		14.23		16.10		
5	4	TUN	BEN HAMMOUDA Fedi	1:44.19	(5)	3:31.72	(5)	5:17.68	(5)	7:02.60		TBC
						1:47.53	(5)	1:45.96	(4)	1:44.92	(4)	
				6.61		13.25		18.96		19.57		
6	1	SUD	AHMED Abdalla	1:45.73	(6)	3:35.58	(6)	5:27.76	(6)	7:16.55		TBC
						1:49.85	(6)	1:52.18	(6)	1:48.79	(6)	
				8.15		17.11		29.04		33.52		

Result sheet : checking 4 - logic of intermediate times

8 (Event)

Results
Men's Single Sculls
MON 22 SEP 2025

M1x | **H1** | **Race 34**

World Best:	NZL	MANSON Robert	Poznan (POL) 2017	World Cup	**6:30.74**
World Champ' Best:	NZL	DRYSDALE Mahe	Poznan (POL) 2009	World Championships	**6:33.35**
World Champion:	GER	ZEIDLER Oliver	Belgrade (SRB) 2023	World Championships	**6:38.08**

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog. Code
1	2	NED	van DORP Simon	1:37.58	(1)	3:18.47	(1)	4:58.72	(1)	**6:43.03**		Q
						1:40.89	(1)	1:40.25	(1)	**1:44.31**	(3)	
2	6	GRE	NTOUSKOS Stefanos	1:37.98	(2)	3:20.01	(2)	5:02.22	(2)	**6:45.09**		Q
						1:42.03	(2)	1:42.21	(2)	**1:42.87**	(2)	
				0.40		1.54		3.50		**2.06**		
3	5	DEN	SECHER Bastian	1:40.64	(3)	3:25.47	(3)	5:08.08	(3)	**6:48.35**		TBC
						1:44.83	(4)	1:42.61	(3)	**1:40.27**	(1)	
				3.06		7.00		9.36		**5.32**		
4	3	POL	LITKA Cezary	1:41.79	(4)	3:26.24	(4)	5:12.95	(4)	**6:59.13**		TBC
						1:44.45	(3)	1:46.71	(5)	**1:46.18**	(5)	
				4.21		7.77		14.23		**16.10**		
5	4	TUN	BEN HAMMOUDA Fedi	1:44.19	(5)	3:31.72	(5)	5:17.68	(5)	**7:02.60**		TBC
						1:47.53	(5)	1:45.96	(4)	**1:44.92**	(4)	
				6.61		13.25		18.96		**19.57**		
6	1	SUD	AHMED Abdalla	1:45.73	(6)	3:35.58	(6)	5:27.76	(6)	**7:16.55**		TBC
						1:49.85	(6)	1:52.18	(6)	**1:48.79**	(6)	
				8.15		17.11		29.04		**33.52**		

Result sheet : checking 5 - progression system

8 (Event)

Results

Men's Single Sculls

MON 22 SEP 2025

M1x **H1** **Race 34**

World Best:	NZL	MANSON Robert	Poznan (POL) 2017	World Cup	6:30.74
World Champ' Best:	NZL	DRYSDALE Mahe	Poznan (POL) 2009	World Championships	6:33.35
World Champion:	GER	ZEIDLER Oliver	Belgrade (SRB) 2023	World Championships	6:38.08

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog Code
1	2	NED	van DORP Simon	1:37.58	(1)	3:18.47	(1)	4:58.72	(1)	**6:43.03**		Q
						1:40.89	(1)	1:40.25	(1)	**1:44.31**	(3)	
2	6	GRE	NTOUSKOS Stefanos	1:37.98	(2)	3:20.01	(2)	5:02.22	(2)	**6:45.09**		Q
						1:42.03	(2)	1:42.21	(2)	**1:42.87**	(2)	
				0.40		1.54		3.50		**2.06**		
3	5	DEN	SECHER Bastian	1:40.64	(3)	3:25.47	(3)	5:08.08	(3)	**6:48.35**		TBC
						1:44.83	(4)	1:42.61	(3)	**1:40.27**	(1)	
				3.06		7.00		9.36		**5.32**		
4	3	POL	LITKA Cezary	1:41.79	(4)	3:26.24	(4)	5:12.95	(4)	**6:59.13**		TBC
						1:44.45	(3)	1:46.71	(5)	**1:46.18**	(5)	
				4.21		7.77		14.23		**16.10**		
5	4	TUN	BEN HAMMOUDA Fedi	1:44.19	(5)	3:31.72	(5)	5:17.68	(5)	**7:02.60**		TBC
						1:47.53	(5)	1:45.96	(4)	**1:44.92**	(4)	
				6.61		13.25		18.96		**19.57**		
6	1	SUD	AHMED Abdalla	1:45.73	(6)	3:35.58	(6)	5:27.76	(6)	**7:16.55**		TBC
						1:49.85	(6)	1:52.18	(6)	**1:48.79**	(6)	
				8.15		17.11		29.04		**33.52**		

Which crews progress on times is not known until all heats are complete

Result sheet : checking 5 - progression system

8 (Event)

Results
Men's Single Sculls
MON 22 SEP 2025

M1x
H5
Race 38

World Best:	NZL	MANSON Robert	Poznan (POL) 2017	World Cup	**6:30.74**
World Champ' Best:	NZL	DRYSDALE Mahe	Poznan (POL) 2009	World Championships	**6:33.35**
World Champion:	GER	ZEIDLER Oliver	Belgrade (SRB) 2023	World Championships	**6:38.08**

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog. Code
1	6	**CHN**	**HAN Wei**	1:40.91	(2)	3:25.10	(1)	5:10.27	(1)	**6:51.40**		Q
						1:44.19	(1)	1:45.17	(2)	**1:41.13**	**(2)**	
				0.38								
2	3	**NZL**	**ULLRICH Logan**	1:41.00	(3)	3:27.03	(2)	5:12.02	(2)	**6:52.95**		Q
						1:46.03	(2)	1:44.99	(1)	**1:40.93**	**(1)**	
				0.47		1.93		1.75		**1.55**		
3	5	**GBR**	**BARRAS Thomas**	1:41.72	(4)	3:27.89	(4)	5:13.32	(4)	**6:54.66**		Q
						1:46.17	(3)	1:45.43	(3)	**1:41.34**	**(3)**	
				1.19		2.79		3.05		**3.26**		
4	1	**SUI**	**LANGE Maurin**	1:40.53	(1)	3:27.32	(3)	5:13.08	(3)	**6:55.58**		Q
						1:46.79	(5)	1:45.76	(4)	**1:42.50**	**(5)**	
						2.22		2.81		**4.18**		
5	2	**SLO**	**PFEIFER Filip-Matej**	1:42.88	(5)	3:29.35	(5)	5:16.90	(5)	**6:58.35**		Q
						1:46.47	(4)	1:47.55	(5)	**1:41.45**	**(4)**	
				2.35		4.25		6.63		**6.95**		
6	4	**IRQ**	**AL-DULAIMI Bakr**	1:43.27	(6)	3:30.91	(6)	5:20.15	(6)	**7:09.92**		FE
						1:47.64	(6)	1:49.24	(6)	**1:49.77**	**(6)**	
				2.74		5.81		9.88		**18.52**		

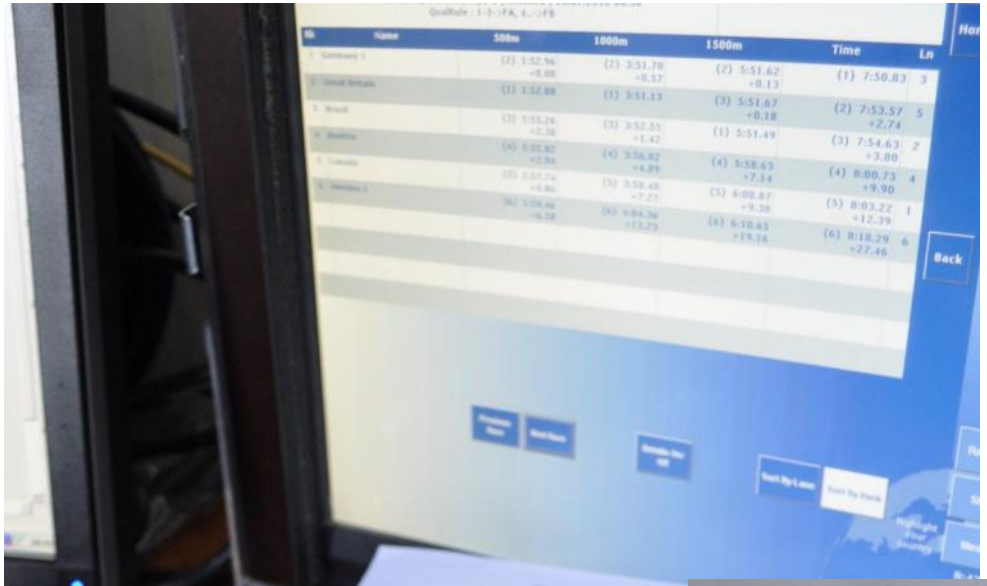
Duties of Finish Judges

Judge at the Finish

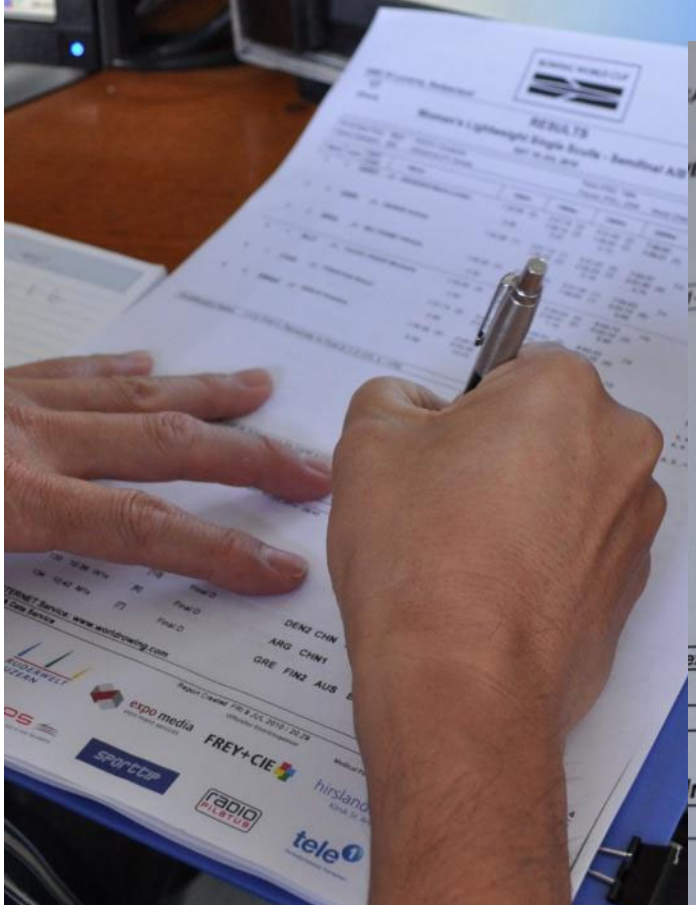
- Determine the order of the boats crossing the finish line and announce this verbally to the audience in the finish room;
- Make sure that the umpire validates the race by raising a white flag;
- Indicate to the umpire that the signal was understood by raising a white flag.
- Announce "WHITE FLAG" to people in finish tower

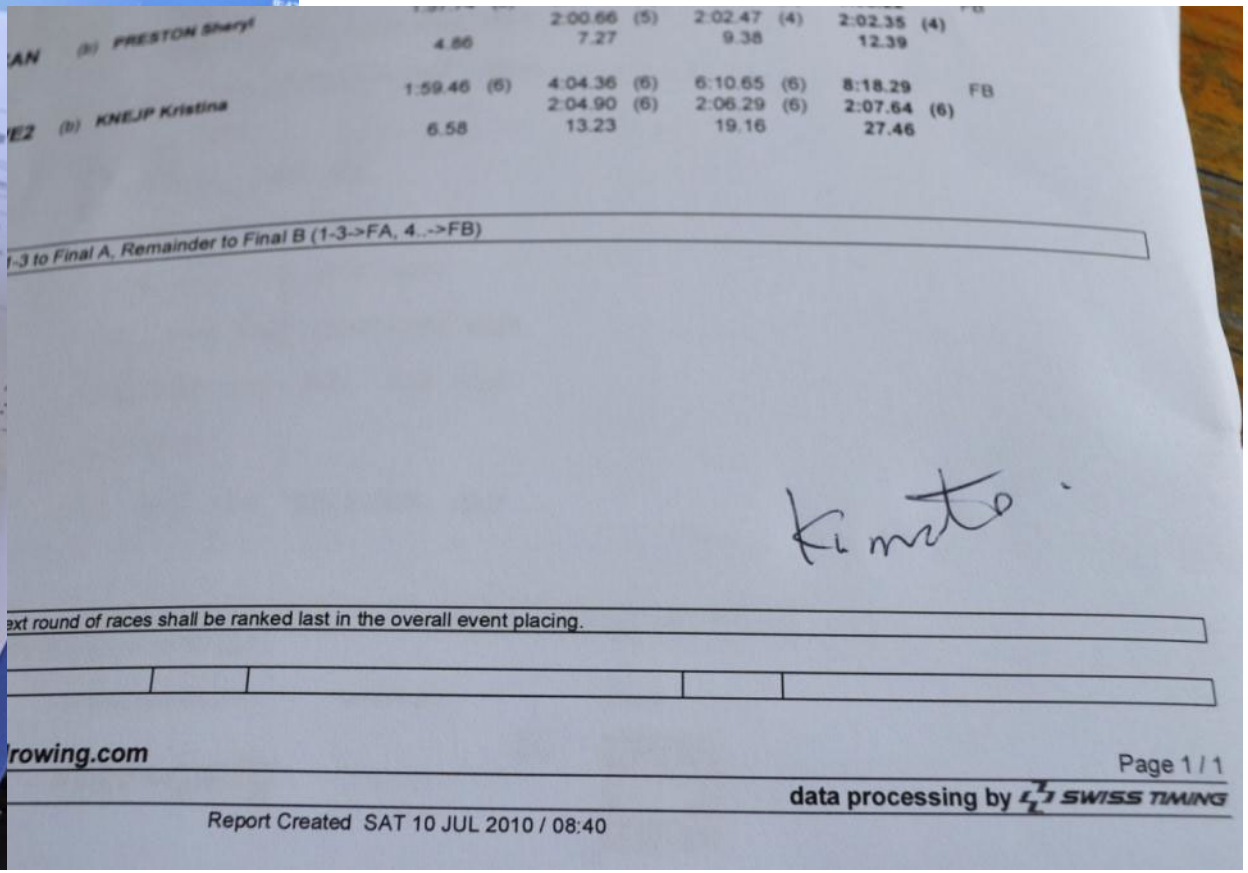
Responsible at the Finish

- During race: monitor intermediate times and ranking;
- List the names/teams in the correct finish order;
- Check the whole content of the 1st copy of the printed result sheet;
- (Check the results shown on the display board);
- Sign the official edition of the results;
- Declare the result of the race "OFFICIAL"



If all OK : the Responsible signs and says
‘ Race XX OFFICIAL’
(LOUD please!!!)





Responsible at the Finish

Judge at the Finish

Responsible at the Finish

Responsible at the Finish

Example 1

Example 1

MEN LIGHTWEIGHT DOUBLE SCULL

EVENT 12
LM2X

H1

Rank	Line	Crew	500 m	1000 m	1500 m	2000 m	
1	5	**CAN** XXXXXXXXXXX	**1 ' 52 " 91** (6)	**3 ' 37 " 34** (1) 1 ' 44 " 43 (1)	**5 ' 31 " 42** (1) 1 ' 54 " 08 (2)	**7 ' 19 " 30** (1) 1 ' 47 " 88 (3)	**S**
2	1	**ITA** XXXXXXXXXXX	**1 ' 44 " 52** (2)	**3 ' 38 " 93** (2) 1 ' 54 " 41 (4)	**5 ' 33 " 56** (2) 1 ' 54 " 63 (4)	**7 ' 20 " 59** (2) 1 ' 47 " 03 (2) 0 ' 01 " 29	**R**
3	4	**RUS** XXXXXXXXXXX	**1 ' 51 " 94** (5)	**3 ' 41 " 46** (4) 1 ' 49 " 52 (2)	**5 ' 37 " 30** (5) 1 ' 55 " 84 (5)	**7 ' 22 " 82** (3) 1 ' 45 " 52 (1) 0 ' 03 " 52	**R**
4	3	**DEN** XXXXXXXXXXX	**1 ' 46 " 72** (3)	**3 ' 40 " 30** (3) 1 ' 53 " 58 (3)	**5 ' 34 " 33** (3) 1 ' 54 " 03 (1)	**7 ' 26 " 00** (4) 1 ' 51 " 67 (4) 0 ' 06 " 70	**R**
5	2	**HKG** XXXXXXXXXXX	**1 ' 47 " 98** (4)	**3 ' 42 " 45** (5) 1 ' 54 " 47 (5)	**5 ' 37 " 02** (4) 1 ' 54 " 57 (3)	**7 ' 34 " 01** (5) 1 ' 56 " 99 (6) 0 ' 14 " 71	**R**
6	6	**USA** XXXXXXXXXXX	**1 ' 42 " 86** (1)	**3 ' 44 " 20** (6) 2 ' 01 " 34 (6)	**5 ' 44 " 00** (6) 1 ' 59 " 80 (6)	**7 ' 35 " 95** (6) 1 ' 51 " 95 (5) 0 ' 16 " 65	**R**

Example 1

MEN LIGHTWEIGHT DOUBLE SCULL

EVENT 12
LM2X

H1

Rank	Line	Crew	500 m	1000 m	1500 m	2000 m	
1	5	**CAN** XXXXXXXXXX	**1 ' 52 " 91** (6)	**3 ' 37 " 34** (1) **1 ' 44 " 43** (1)	**5 ' 31 " 42** (1) 1 ' 54 " 08 (2)	**7 ' 19 " 30** (1) 1 ' 47 " 88 (3)	**S**
2	1	**ITA** XXXXXXXXXX	**1 ' 44 " 52** (2)	**3 ' 38 " 93** (2) 1 ' 54 " 41 (4)	**5 ' 33 " 56** (2) 1 ' 54 " 63 (4)	**7 ' 20 " 59** (2) 1 ' 47 " 03 (2) 0 ' 01 " 29	**R**
3	4	**RUS** XXXXXXXXXX	**1 ' 51 " 94** (5)	**3 ' 41 " 46** (4) 1 ' 49 " 52 (2)	**5 ' 37 " 30** (5) 1 ' 55 " 84 (5)	**7 ' 22 " 82** (3) 1 ' 45 " 52 (1) 0 ' 03 " 52	**R**
4	3	**DEN** XXXXXXXXXX	**1 ' 46 " 72** (3)	**3 ' 40 " 30** (3) 1 ' 53 " 58 (3)	**5 ' 34 " 33** (3) 1 ' 54 " 03 (1)	**7 ' 26 " 00** (4) 1 ' 51 " 67 (4) 0 ' 06 " 70	**R**
5	2	**HKG** XXXXXXXXXX	**1 ' 47 " 98** (4)	**3 ' 42 " 45** (5) 1 ' 54 " 47 (5)	**5 ' 37 " 02** (4) 1 ' 54 " 57 (3)	**7 ' 34 " 01** (5) 1 ' 56 " 99 (6) 0 ' 14 " 71	**R**
6	6	**USA** XXXXXXXXXX	**1 ' 42 " 86** (1)	**3 ' 44 " 20** (6) **2 ' 01 " 34** (6)	**5 ' 44 " 00** (6) 1 ' 59 " 80 (6)	**7 ' 35 " 95** (6) 1 ' 51 " 95 (5) 0 ' 16 " 65	**R**

Example 1

MEN LIGHTWEIGHT DOUBLE SCULL

EVENT 12
LM2X

H1

Rank	Line	Crew	500 m	1000 m	1500 m	2000 m	
1	5	**CAN** XXXXXXXXXXX	dna	**3 ' 37 " 34** (1)	**5 ' 31 " 42** (1) 1 ' 54 " 08 (2)	**7 ' 19 " 30** (1) 1 ' 47 " 88 (3)	**S**
2	1	**ITA** XXXXXXXXXXX	dna	**3 ' 38 " 93** (2)	**5 ' 33 " 56** (2) 1 ' 54 " 63 (4)	**7 ' 20 " 59** (2) 1 ' 47 " 03 (2) 0 ' 01 " 29	**R**
3	4	**RUS** XXXXXXXXXXX	dna	**3 ' 41 " 46** (4)	**5 ' 37 " 30** (5) 1 ' 55 " 84 (5)	**7 ' 22 " 82** (3) 1 ' 45 " 52 (1) 0 ' 03 " 52	**R**
4	3	**DEN** XXXXXXXXXXX	dna	**3 ' 40 " 30** (3)	**5 ' 34 " 33** (3) 1 ' 54 " 03 (1)	**7 ' 26 " 00** (4) 1 ' 51 " 67 (4) 0 ' 06 " 70	**R**
5	2	**HKG** XXXXXXXXXXX	dna	**3 ' 42 " 45** (5)	**5 ' 37 " 02** (4) 1 ' 54 " 57 (3)	**7 ' 34 " 01** (5) 1 ' 56 " 99 (6) 0 ' 14 " 71	**R**
6	6	**USA** XXXXXXXXXXX	dna	**3 ' 44 " 20** (6)	**5 ' 44 " 00** (6) 1 ' 59 " 80 (6)	**7 ' 35 " 95** (6) 1 ' 51 " 95 (5) 0 ' 16 " 65	**R**

Example 2

Example 2

Shanghai, China — **21 - 28 September 2025**

6 (Event)

Results

Men's Four

MON 22 SEP 2025

M4-

H1

Race 26

World Best:	GBR	GREGORY A. / REED P. / JAMES T. / HODGE A.	Lucerne (SUI) 2012	World Cup	**5:37.86**
World Champ' Best:	GBR	GREGORY A. / SBIHI M. / NASH G. / HODGE A.	Amsterdam (NED) 2014	World Championships	**5:40.24**
World Champion:	GBR	WILKES O. / AMBLER D. / ALDRIDGE M / DAVIDSON F.	Belgrade (SRB) 2023	World Championships	**6:04.35**

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog. Code
1	3	ROU	(b) BERARIU Stefan Constanti	1:24.66	(1)	2:55.00	(1)	4:25.94	(1)	**5:57.83**		S
			(2) BEJAN Sergiu Vasile			1:30.34	(1)	1:30.94	(2)	**1:31.89**	**(2)**	
			(3) MANDRILA Andrei									
			(s) TUDOSA Ciprian									
2	4	NZL	(b) DUNHAM Matthew	1:27.25	(3)	2:58.16	(2)	4:28.96	(2)	**6:00.69**		S
			(2) RUMBLE Zackary			1:30.91	(2)	1:30.80	(1)	**1:31.73**	**(1)**	
			(3) CROUCH Campbell	2.59		3.16		3.02		**2.86**		
			(s) ELIADIS-WATSON Flynn									
3	1	UZB	(b) KARIMOV Fazliddin	1:26.65	(2)	2:59.07	(3)	4:30.02	(3)	**6:02.37**		TBC
			(2) KHUDOYBERDIEV Dilshodjon			1:32.42	(4)	1:30.95	(3)	**1:32.35**	**(3)**	
			(3) DAVRONOV Davrjon	1.99		4.07		4.08		**4.54**		
			(s) TURDIEV Alisher									
4	5	CAN	(b) EWASHKO Axel Eiger	1:27.30	(4)	2:59.67	(4)	4:31.51	(4)	**6:09.10**		TBC
			(2) CLEGG Ryan			1:32.37	(3)	1:31.84	(4)	**1:37.59**	**(4)**	
			(3) ROSTS Steven	2.64		4.67		5.57		**11.27**		
			(s) CULLEN Joel									
5	2	HKG	(b) CHAN Tik Lun	1:29.45	(5)	3:01.91	(5)	4:35.62	(5)	**6:16.24**		TBC
			(2) CHEN Pak Hong			1:32.46	(5)	1:33.71	(5)	**1:40.62**	**(5)**	
			(3) LAM San Tung	4.79		6.91		9.68		**18.41**		
			(s) TO Siu Po									

Progression System: 1-2 in each heat and 4 fastest times of the remaining crews (1HT-4HT) to Semifinal. Other crews to Final C and remaining crew eliminated.

Example 2

Shanghai, China — 21 - 28 September 2025

6 (Event)

Results

Men's Four

MON 22 SEP 2025

M4-

H1

Race 26

World Best:	GBR	GREGORY A. / REED P. / JAMES T. / HODGE A.	Lucerne (SUI) 2012	World Cup	5:37.86
World Champ' Best:	GBR	GREGORY A. / SBIHI M. / NASH G. / HODGE A.	Amsterdam (NED) 2014	World Championships	5:40.24
World Champion:	GBR	WILKES O. / AMBLER D. / ALDRIDGE M / DAVIDSON F.	Belgrade (SRB) 2023	World Championships	6:04.35

Rank	Lane	Ctry Code	Name	500m		1000m		1500m		2000m		Prog. Code
1	3	ROU	(b) BERARIU Stefan Constanti	1:24.66	(1)	2:55.00	(1)	4:25.94	(1)	5:57.83		S
			(2) BEJAN Sergiu Vasile			1:30.34	(1)	1:30.94	(2)	1:31.89	(2)	
			(3) MANDRILA Andrei									
			(s) TUDOSA Ciprian									
2	4	NZL	(b) DUNHAM Matthew	1:27.25	(3)	2:58.16	(2)	4:28.96	(2)	6:00.69		S
			(2) RUMBLE Zackary			1:30.91	(2)	1:30.80	(1)	1:31.73	(1)	
			(3) CROUCH Campbell	2.59		3.16		3.02		2.86		
			(s) ELIADIS-WATSON Flynn									
3	1	UZB	(b) KARIMOV Fazliddin	1:26.65	(2)	2:59.07	(3)	4:30.02	(3)	6:02.37		S
			(2) KHUDOYBERDIEV Dilshodjon			1:32.42	(4)	1:30.95	(3)	1:32.35	(3)	
			(3) DAVRONOV Davrjon	1.99		4.07		4.08		4.54		
			(s) TURDIEV Alisher									
4	5	CAN	(b) EWASHKO Axel Eiger	1:27.30	(4)	2:59.67	(4)	4:31.51	(4)	6:09.10		FC
			(2) CLEGG Ryan			1:32.37	(3)	1:31.84	(4)	1:37.59	(4)	
			(3) ROSTS Steven	2.64		4.67		5.57		11.27		
			(s) CULLEN Joel									
5	2	HKG	(b) CHAN Tik Lun	1:29.45	(5)	3:01.91	(5)	4:35.62	(5)	BUW		ELM
			(2) CHEN Pak Hong			1:32.46	(5)	1:33.71	(5)			
			(3) LAM San Tung	4.79		6.91		9.68				
			(s) TO Siu Po									

Progression System: 1-2 in each heat and 4 fastest times of the remaining crews (1HT-4HT) to Semifinal. Other crews to Final C and remaining crew eliminated.

A crew with a BUW is not given a time and therefore in a heat will be moved to the bottom of the rankings

Example 2

Shanghai, China — 21 - 28 September 2025

6 (Event) — **Results** — Men's Four — MON 22 SEP 2025 — M4- — H2 — Race 27

World Best:	GBR	GREGORY A. / REED P. / JAMES T. / HODGE A.	Lucerne (SUI) 2012	World Cup 5:37.86
World Champ' Best:	GBR	GREGORY A. / SBIHI M. / NASH G. / HODGE A.	Amsterdam (NED) 2014	World Championships 5:40.24
World Champion:	GBR	WILKES O. / AMBLER D. / ALDRIDGE M / DAVIDSON F.	Belgrade (SRB) 2023	World Championships 6:04.35

Rank	Lane	Ctry Code	Name	500m	1000m	1500m	2000m	Prog. Code
1	3	GBR	(b) GRAHAM Daniel (2) ROBSON James (3) de GRAAF Douwe (s) BOURNE George	1:24.83 (1)	2:53.85 (1) 1:29.02 (1)	4:22.66 (1) 1:28.81 (1)	5:54.18 1:31.52 (2)	S
2	4	AUS	(b) PENDER Nikolas (2) HAMILTON Fergus (3) REINEHR Austin (s) HILL Alex	1:25.99 (2) 1.16	2:56.86 (2) 1:30.87 (3) 3.01	4:26.58 (2) 1:29.72 (3) 3.92	5:56.54 1:29.96 (1) 2.36	S
3	2	NED	(b) van LIEROP Lennart (2) TWELLAAR Melvin (3) KROMMENHOEK Guillaume (s) van DOORN Gert-Jan	1:27.09 (3) 2.26	2:57.78 (3) 1:30.69 (2) 3.93	4:27.23 (3) 1:29.45 (2) 4.57	5:59.80 1:32.57 (3) 5.62	S
4	5	ESP	(b) KNABE Jorge (2) SANCHEZ BATLLE Pau (3) PALOMINO Juan Miguel (s) PASTOR Eric	1:28.81 (5) 3.98	3:02.90 (4) 1:34.09 (4) 9.05	4:37.63 (4) 1:34.73 (4) 14.97	6:11.74 1:34.11 (4) 17.56	FC
5	1	CHN	(b) LI Fuyi (2) MA Wenbo (3) GUO Yiwen (s) GUO Tingbiao	1:28.10 (4) 3.27	3:03.93 (5) 1:35.83 (5) 10.08	4:42.41 (5) 1:38.48 (5) 19.75	6:19.94 1:37.53 (5) 25.76	FC

Progression System: 1-2 in each heat and 4 fastest times of the remaining crews (1HT-4HT) to Semifinal. Other crews to Final C and remaining crew eliminated.

Shanghai, China — 21 - 28 September 2025

6 (Event) — **Start List** — Men's Four — M4- — F — Races 69,106,112

World Best:	GBR	GREGORY A. / REED P. / JAMES T. / HODGE A.	Lucerne (SUI) 2012	World Cup 5:37.86
World Champ' Best:	GBR	GREGORY A. / SBIHI M. / NASH G. / HODGE A.	Amsterdam (NED) 2014	World Championships 5:40.24
World Champion:	GBR	WILKES O. / AMBLER D. / ALDRIDGE M / DAVIDSON F.	Belgrade (SRB) 2023	World Championships 6:04.35

Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6
Race 69 / WED 24 SEP 2025 / 12:00 / Final C					
HKG	ESP	DEN	GER	CAN	CZE
(b) CHAN TL	KNABE J	LARSEN JV	SCHROEDER WN	EWASHKO AE	CHLADEK J
(2) CHEN PH	SANCHEZ BATLLE P	RATHENBORG M	SCHMELA R	CLEGG R	VOKALEK M
(3) LAM ST	PALOMINO JM	POULSEN A	JOHN M	ROSTS S	BALDINUS V
(s) TO SP (CHN)	PASTOR E	VALBIRK M	AMELINGMEYER F	CULLEN J	SISMA T
Race 106 / FRI 26 SEP 2025 / 13:53 / Final B					
TO BE CONFIRMED					
Race 112 / FRI 26 SEP 2025 / 15:19 / Final A					
TO BE CONFIRMED					

Shanghai, China — 21 - 28 September 2025

6 (Event) — **Start List** — Men's Four — M4- — F — Races 69,106,112

World Best:	GBR	GREGORY A. / REED P. / JAMES T. / HODGE A.	Lucerne (SUI) 2012	World Cup 5:37.86
World Champ' Best:	GBR	GREGORY A. / SBIHI M. / NASH G. / HODGE A.	Amsterdam (NED) 2014	World Championships 5:40.24
World Champion:	GBR	WILKES O. / AMBLER D. / ALDRIDGE M / DAVIDSON F.	Belgrade (SRB) 2023	World Championships 6:04.35

Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6
Race 69 / WED 24 SEP 2025 / 12:00 / Final C					
CHN	ESP	DEN	GER	CAN	CZE
(b) LI F	KNABE J	LARSEN JV	SCHROEDER WN	EWASHKO AE	CHLADEK J
(2) MA W	SANCHEZ BATLLE P	RATHENBORG M	SCHMELA R	CLEGG R	VOKALEK M
(3) GUO Y	PALOMINO JM	POULSEN A	JOHN M	ROSTS S	BALDINUS V
(s) GUO T	PASTOR E	VALBIRK M	AMELINGMEYER F	CULLEN J	SISMA T
Race 106 / FRI 26 SEP 2025 / 13:53 / Final B					
TO BE CONFIRMED					
Race 112 / FRI 26 SEP 2025 / 15:19 / Final A					
TO BE CONFIRMED					

A BUW affects not only the results of it's race but may now requirement revisions to the results of other races and start lists.

Example 3

Example 3

ROWING WORLD CUP

RWC III Lucerne, Switzerland — 09 - 11 July 2010

2 (Event) — **RESULTS** — M2- R1 Race 81

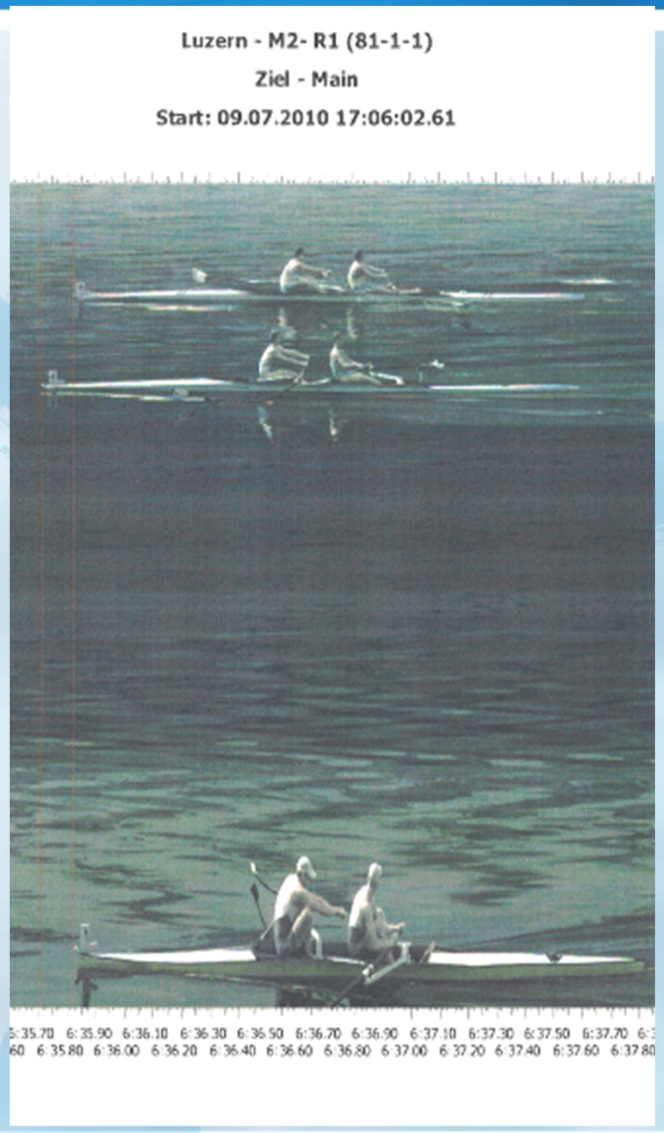
Men's Pair - Repechage 1

FRI 09 JUL 2010

World Best Time:	GBR	CRACKNELL/ PINSENT	Seville (ESP) 2002	6:14.27
World Champion:	NZL	MURRAY/ BOND	Poznan (POL) 2009 World Champ'ships	6:15.93

Rank	Lane	NOC Code	Name	500m	1000m	1500m	2000m	Qual. Code
1	4	RSA	(b) KEELING Shaun	1:35.42 (1)	3:15.81 (1)	4:57.09 (1)	6:35.82	SA/B
			(s) DI CLEMENTE Ramon		1:40.39 (3)	1:41.28 (4)	1:38.73 (4)	
2	5	AUS	(b) COUDRAYE Bryn	1:36.26 (2)	3:16.48 (2)	4:57.49 (2)	6:35.93	?? ReRow
			(s) GRIMM Dominic		1:40.22 (2)	1:41.01 (2)	1:38.44 (3)	
				0.84	0.67	0.40	0.11	
2	1	GER2	(b) NARUHN Philipp	1:37.94 (3)	3:18.10 (3)	4:59.20 (3)	6:35.93	?? ReRow
			(s) EICHNER Florian		1:40.16 (1)	1:41.10 (3)	1:36.73 (1)	
				2.52	2.29	2.11	0.11	
4	6	FRA2	(b) LENTE Sebastien	DNA	DNA	DNA	6:39.54	FC
			(s) RONDEAU Benjamin					
							3.72	
5	2	IRL	(b) FOLAN Cormac	1:38.64 (4)	3:20.28 (4)	5:00.72 (4)	6:40.64	FC
			(s) JACOB Sean		1:41.64 (4)	1:40.44 (1)	1:39.92 (5)	
				3.22	4.47	3.63	4.82	
6	3	FRA1	(b) HARDY Adrien	1:39.96 (5)	3:22.40 (5)	5:04.00 (5)	6:41.98	FD
			(s) CADOT Laurent		1:42.44 (5)	1:41.60 (5)	1:37.98 (2)	
				4.54	6.59	6.91	6.16	

Qualification Rules: 1-2 to Semifinal A/B, 3-5 to Final C, Remainder to Final D (1-2->SA/B, 3-5->FC, 6..->FD)



Example 3

ROWING WORLD CUP

RWC III Lucerne, Switzerland — **09 - 11 July 2010**

2 (Event)

RESULTS

M2-

Men's Pair - Repechage Re-Row 3

R3

FRI 09 JUL 2010

Race 215

World Best Time:	**GBR**	CRACKNELL/ PINSENT	Seville (ESP) 2002	**6:14.27**
World Champion:	**NZL**	MURRAY/ BOND	Poznan (POL) 2009 World Champ'ships	**6:15.93**

Rank	Lane	NOC Code	Name	500m	1000m	1500m	2000m	Qual. Code
1	3	GER2	(b) **NARUHN Philipp**	1:37.21 (2)	3:18.69 (1)	5:02.81 (1)	**6:50.27**	SA/B
			(s) **EICHNER Florian**		1:41.48 (1)	1:44.12 (1)	**1:47.46 (1)**	
				0.64				
2	4	AUS	(b) **COUDRAYE Bryn**	1:36.57 (1)	3:21.57 (2)	5:07.11 (2)	**6:56.55**	FC
			(s) **GRIMM Dominic**		1:45.00 (2)	1:45.54 (2)	**1:49.44 (2)**	
					2.88	4.30	**6.28**	

Some photo finish examples

Photo Finish

Example A

Photo Finish

Example B

Comment: not good ! What will happen when a bow ball is behind a rower….

Reason: camera is too low!

Photo Finish

Example C

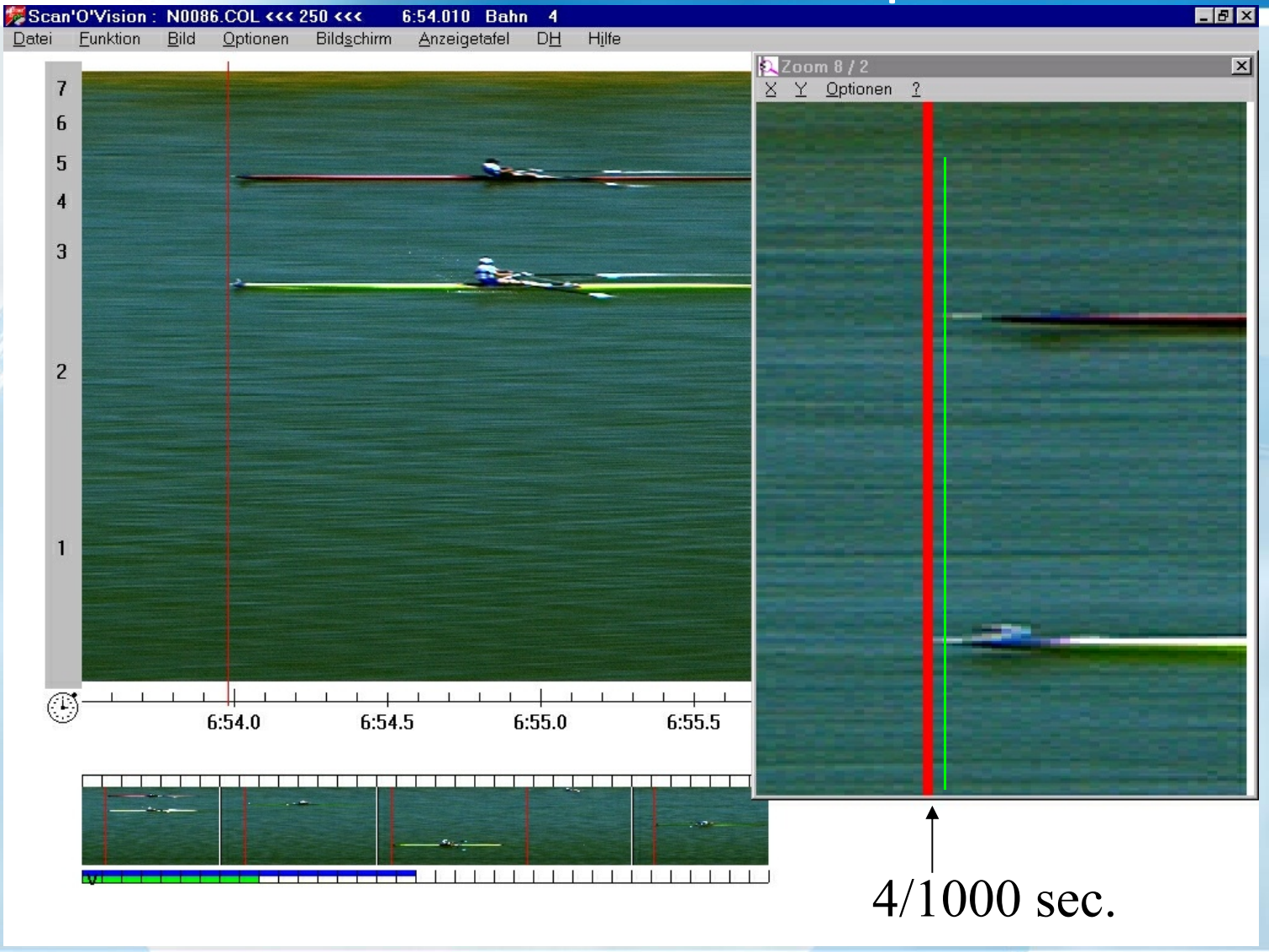
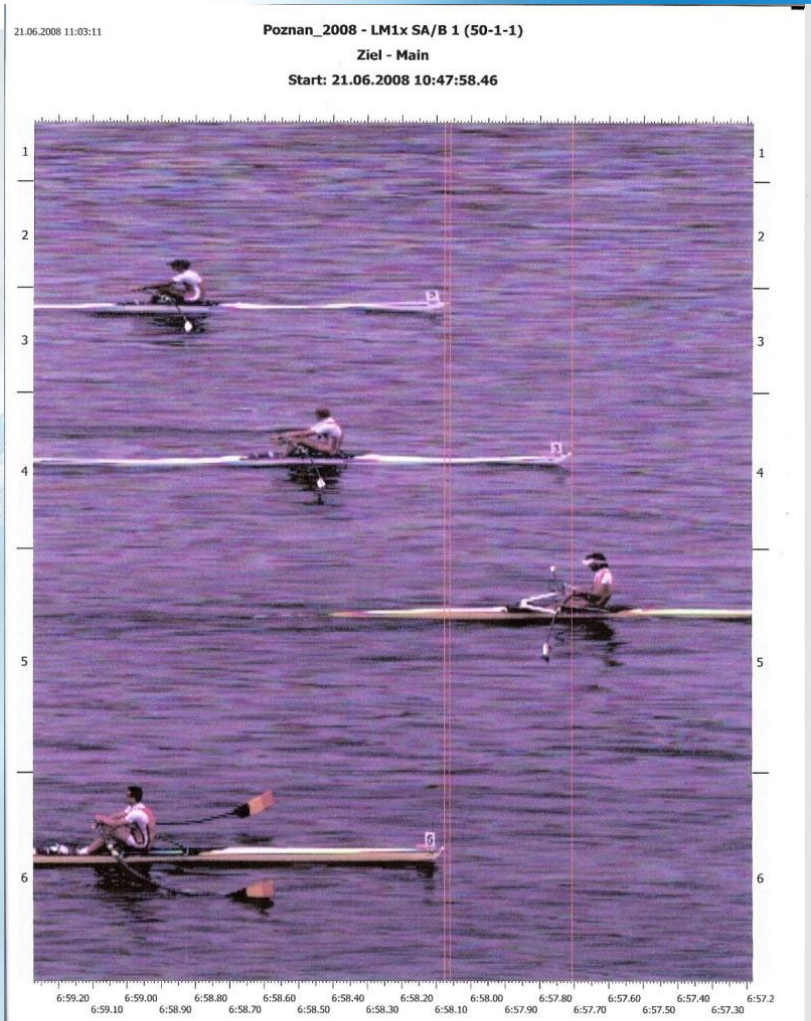


Photo Finish

Example D



RWC III Poznan, Poland — 20 - 22 June2008

18 (Event) — **RESULTS** — LM1x

Men's Lightweight Single Sculls - Semifinal A/B 1 — SA/B 1

SAT 21 JUN 2008 — Race 50

World Best Time: GBR	PURCHASE Zac	Eton (GBR) 2006	6:47.82
World Champion: NZL	GRANT Duncan	Munich (GER) 2007 World Champ'ships	6:53.89

Rank	Lane	NOC Code	Pos	Name	500m	1000m	1500m	2000m	Qual. Code
1	4	NED	(b)	SCHOUTEN Jaap	1:41.40 (1)	3:24.90 (1)	5:10.58 (1)	**6:56.91**	FA
						1:43.50 (1)	1:45.68 (2)	**1:46.33 (4)**	
2	3	DEN	(b)	JOERGENSEN Morten	1:42.75 (3)	3:27.23 (2)	5:15.06 (4)	**6:57.71**	FA
						1:44.48 (2)	1:47.83 (4)	**1:42.65 (1)**	
					1.35	2.33	4.48	**0.80**	
3	2	JPN	(b)	SUDA Takahiro	1:43.90 (5)	3:29.56 (5)	5:13.73 (3)	**6:58.07**	FA
						1:45.66 (4)	1:44.17 (1)	**1:44.34 (2)**	
					2.50	4.66	3.15	**1.16**	
4	5	BEL	(b)	VAN DER FRAENEN Wouter	1:42.05 (2)	3:27.44 (3)	5:13.28 (2)	**6:58.08**	FB
						1:45.39 (3)	1:45.84 (3)	**1:44.80 (3)**	
					0.65	2.54	2.70	**1.17**	
5	6	ITA1	(b)	SANCASSANI Franco	1:43.23 (4)	3:29.21 (4)	5:17.44 (5)	**7:06.40**	FB
						1:45.98 (6)	1:48.23 (6)	**1:48.96 (5)**	
					1.83	4.31	6.86	**9.49**	
6	1	VEN	(b)	GUIPE Jose	1:44.71 (6)	3:30.42 (6)	5:18.39 (6)	**7:11.67**	FB
						1:45.71 (5)	1:47.97 (5)	**1:53.28 (6)**	
					3.31	5.52	7.81	**14.76**	

Qualification Rules: 1-3 to Final A, Remainder to Final B (1-3->FA, 4..->FB)

Note: Boats not moving on to the next round of races shall be ranked last in the overall event placing.

Legend:

(b)	bow

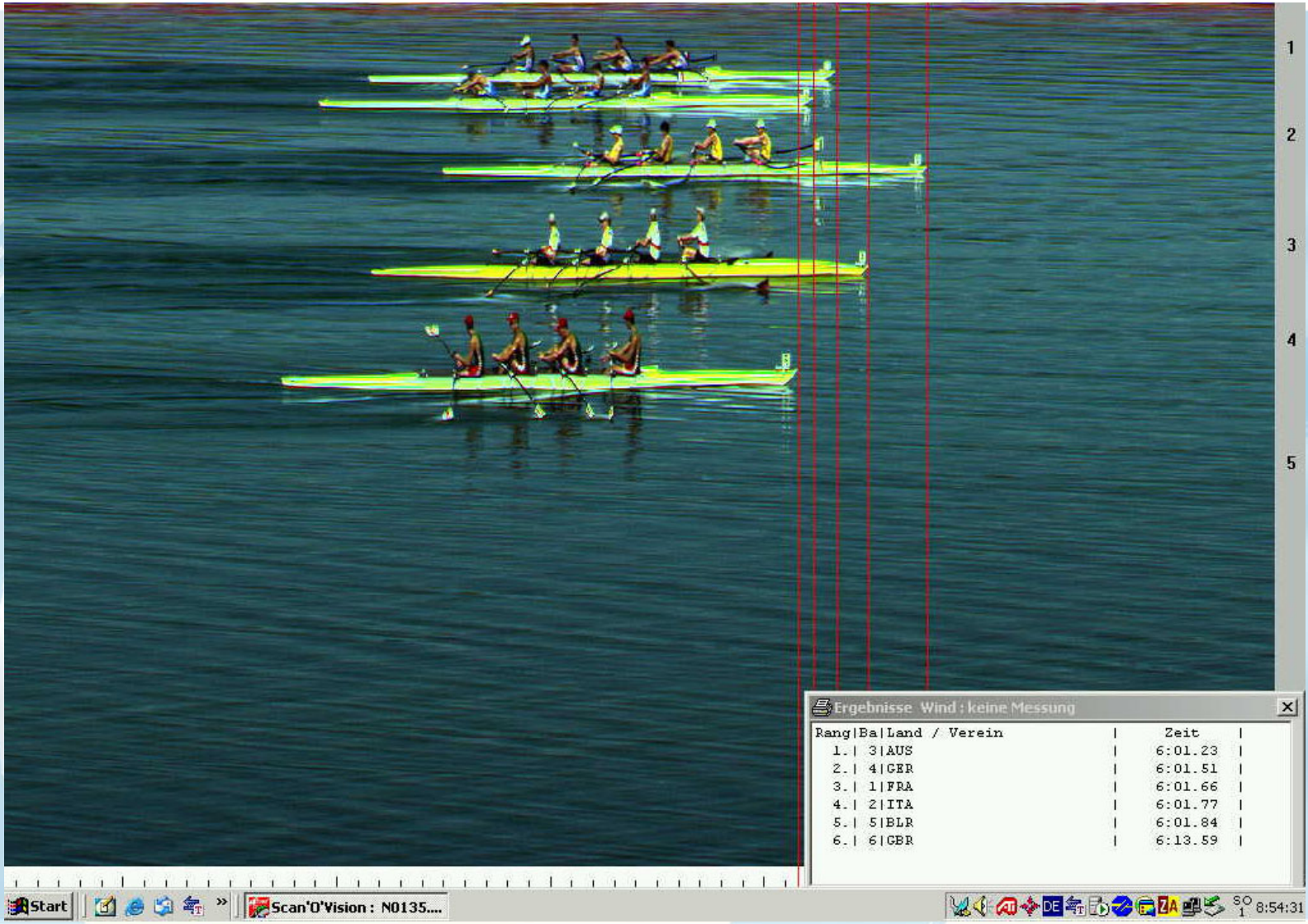
INTERNET Service: www.worldrowing.com — Page 1 / 1

FISA Data Service — data processing by SWISS TIMING

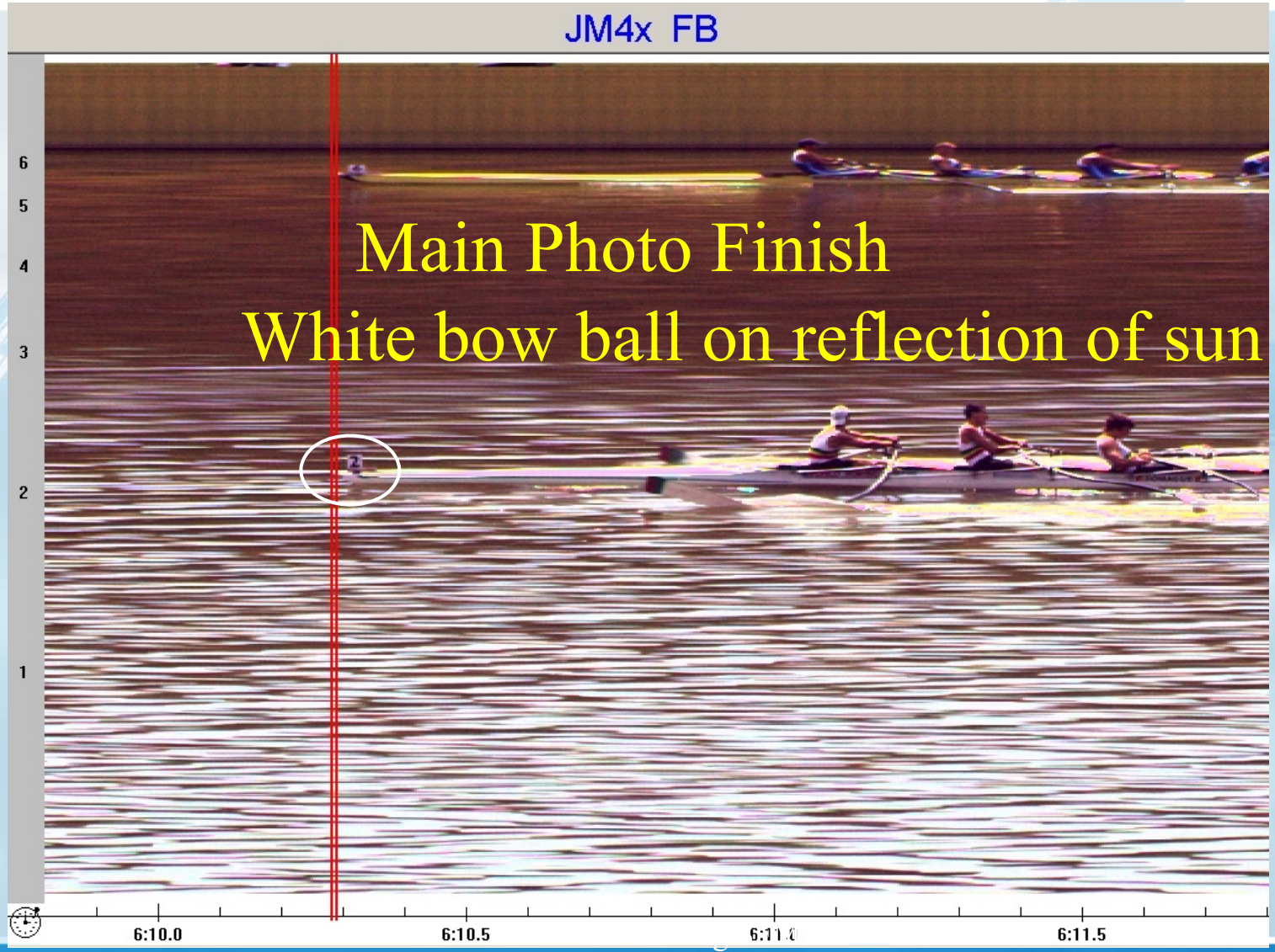
Report Created SAT 21 JUN 2008 / 10:56

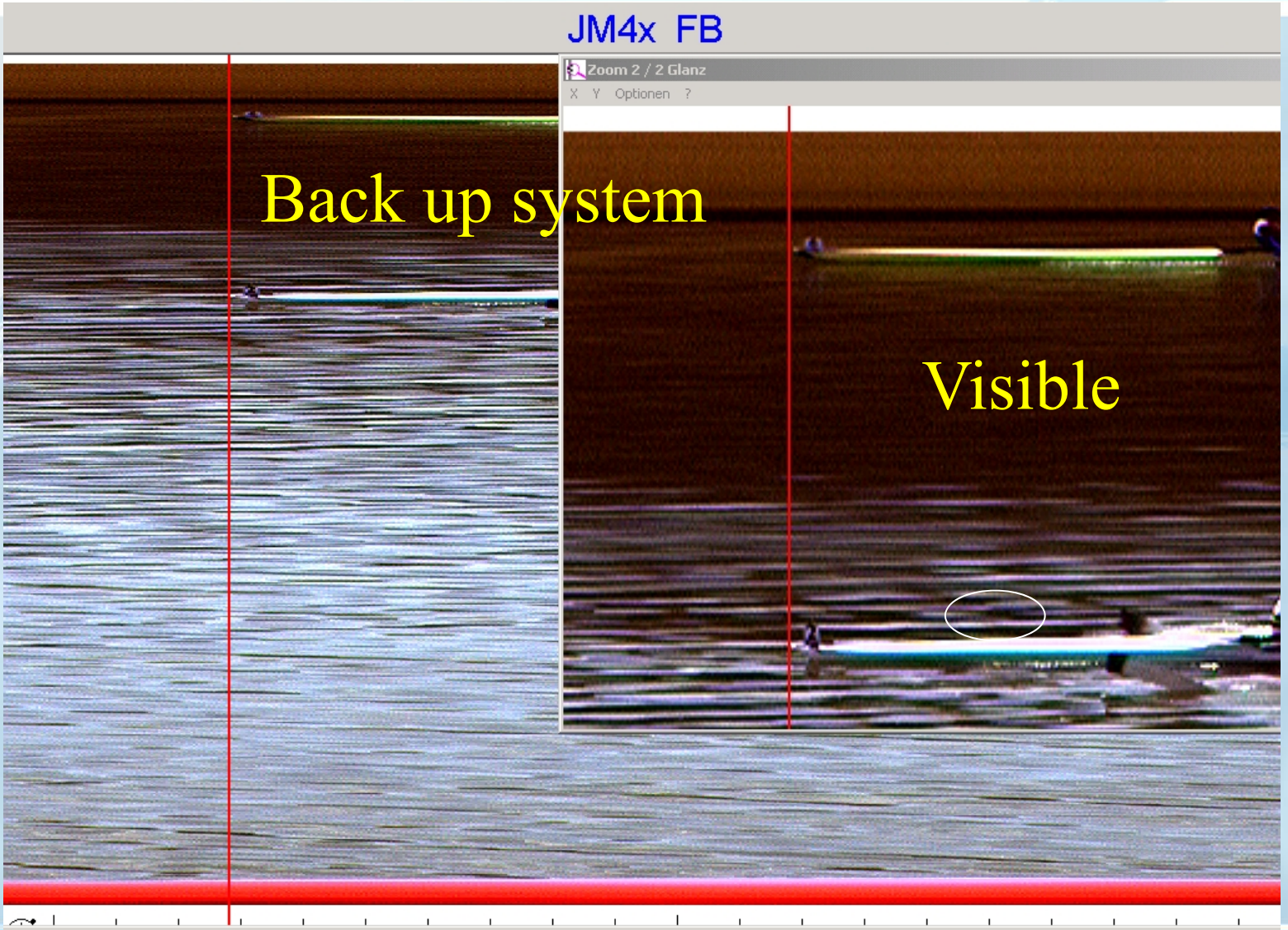
Photo Finish

Example E



Back up : helps some times…


JM4x FB
6
5
4
3
2
1
Main Photo Finish
White bow ball on reflection of sun
6:10.0
6:10.5
6:11.5


JM4x FB
Zoom 2 / 2 Glanz
X Y Optionen ?
Back up system
Visible

Dead Heat Problem

WHAT IS THE DIFFERENCE BETWEEN THESE TWO RESULTS ?

RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.16	+ 4.01
3	1	CRO	6.52.16	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.16	+ 4.01
2	1	CRO	6.52.16	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

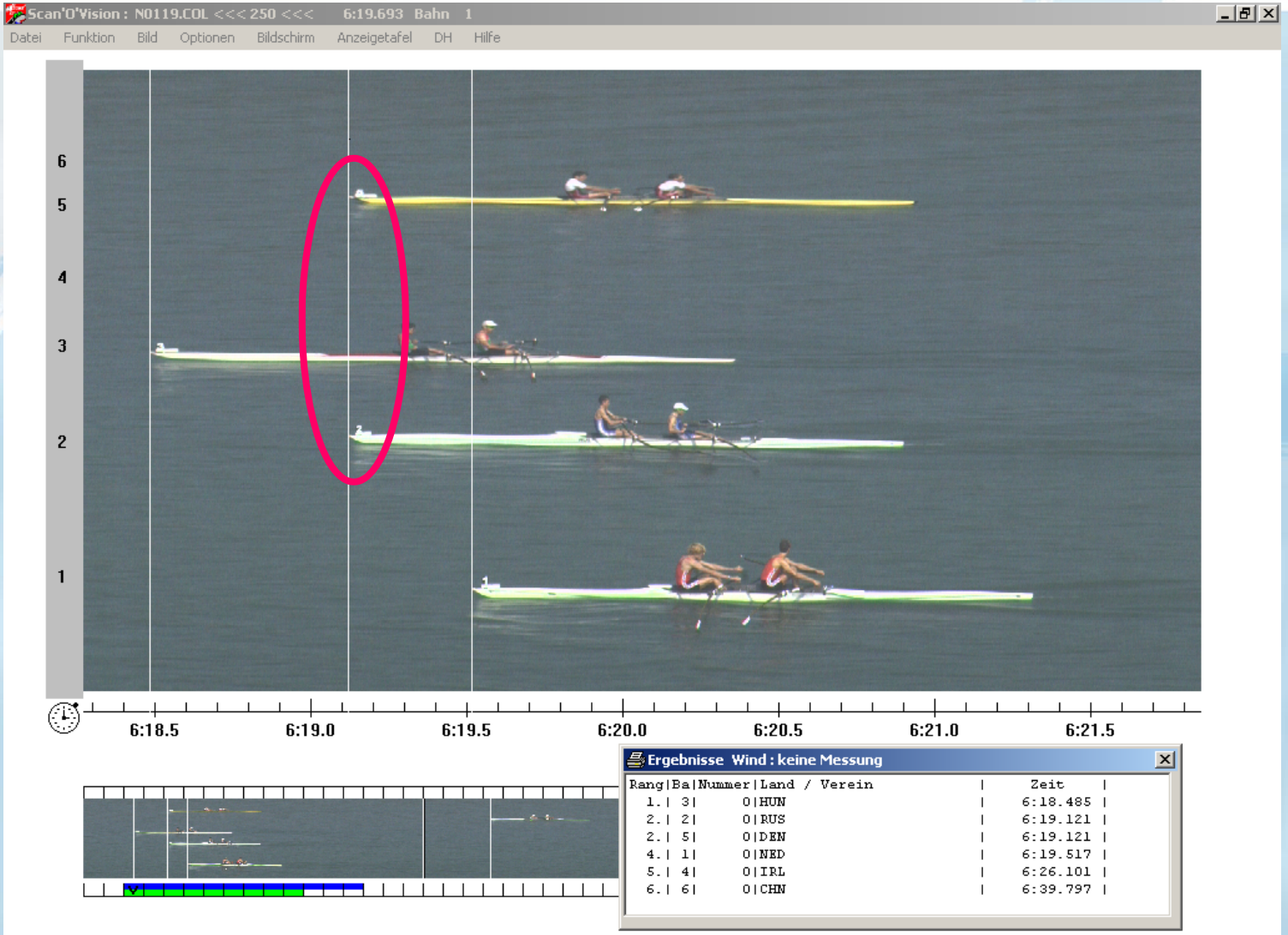
RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.16	+ 4.01
3	1	CRO	6.52.16	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.16	+ 4.01
2	1	CRO	6.52.16	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.162	+ 4.01
3	1	CRO	6.52.167	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

RANK	LANE	NATION	TIME	
1	3	ITA	6:48.15	
2	5	LAT	6.52.162	+ 4.01
2	1	CRO	6.52.162	+ 4.01
4	4	AUT	6:56.32	+ 8.17
5	2	GBR	7.04.71	+ 16.56
6	6	RUS	7.07.75	+ 19.70

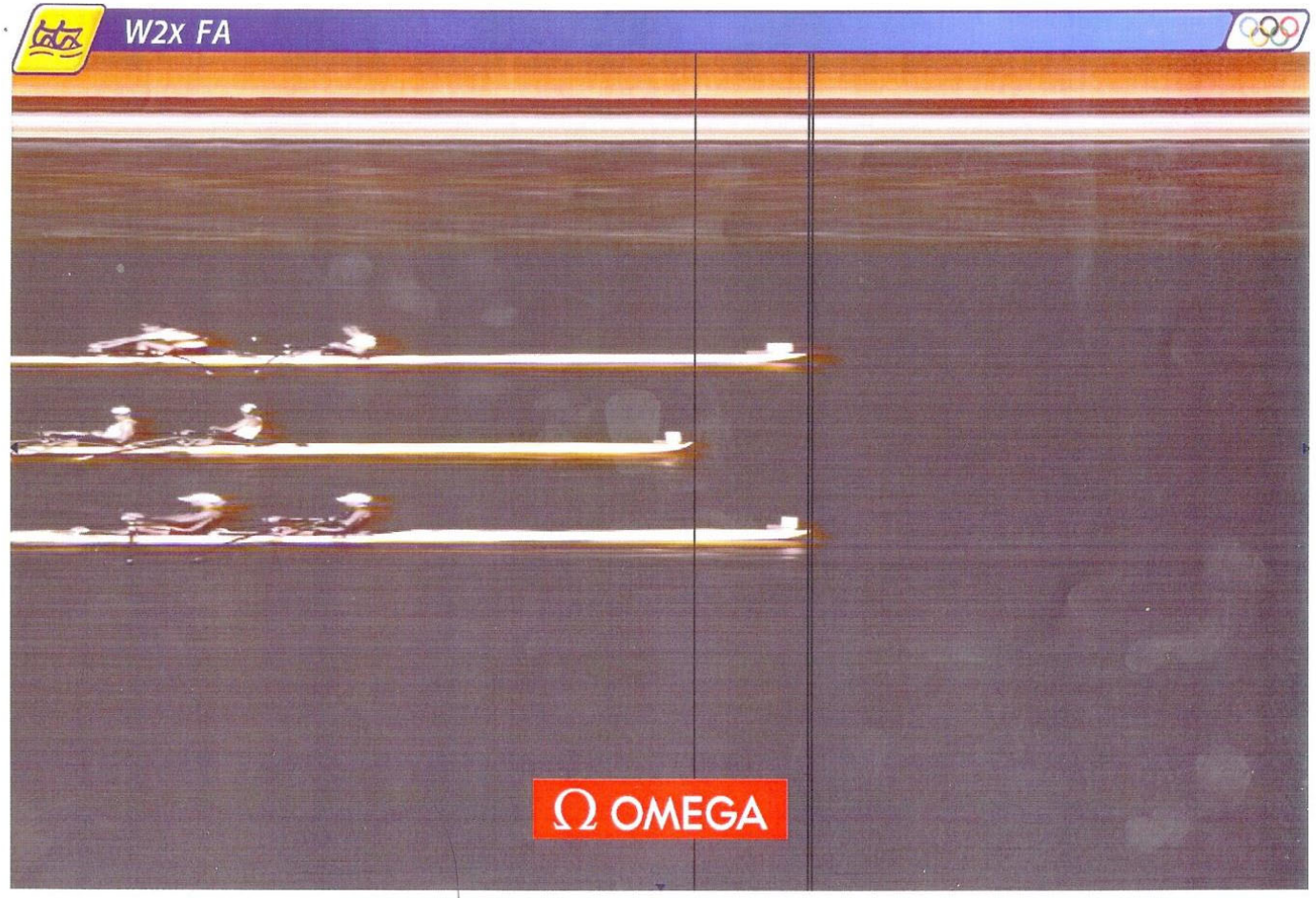
IF WE CAN SEE A DIFFERENCE WE MUST GIVE A RANKING
EVEN IF THE RESULTS ARE IN THE SAME HUNDREDTH OF SECOND.
IF NOT THERE IS A DEAD HEAT

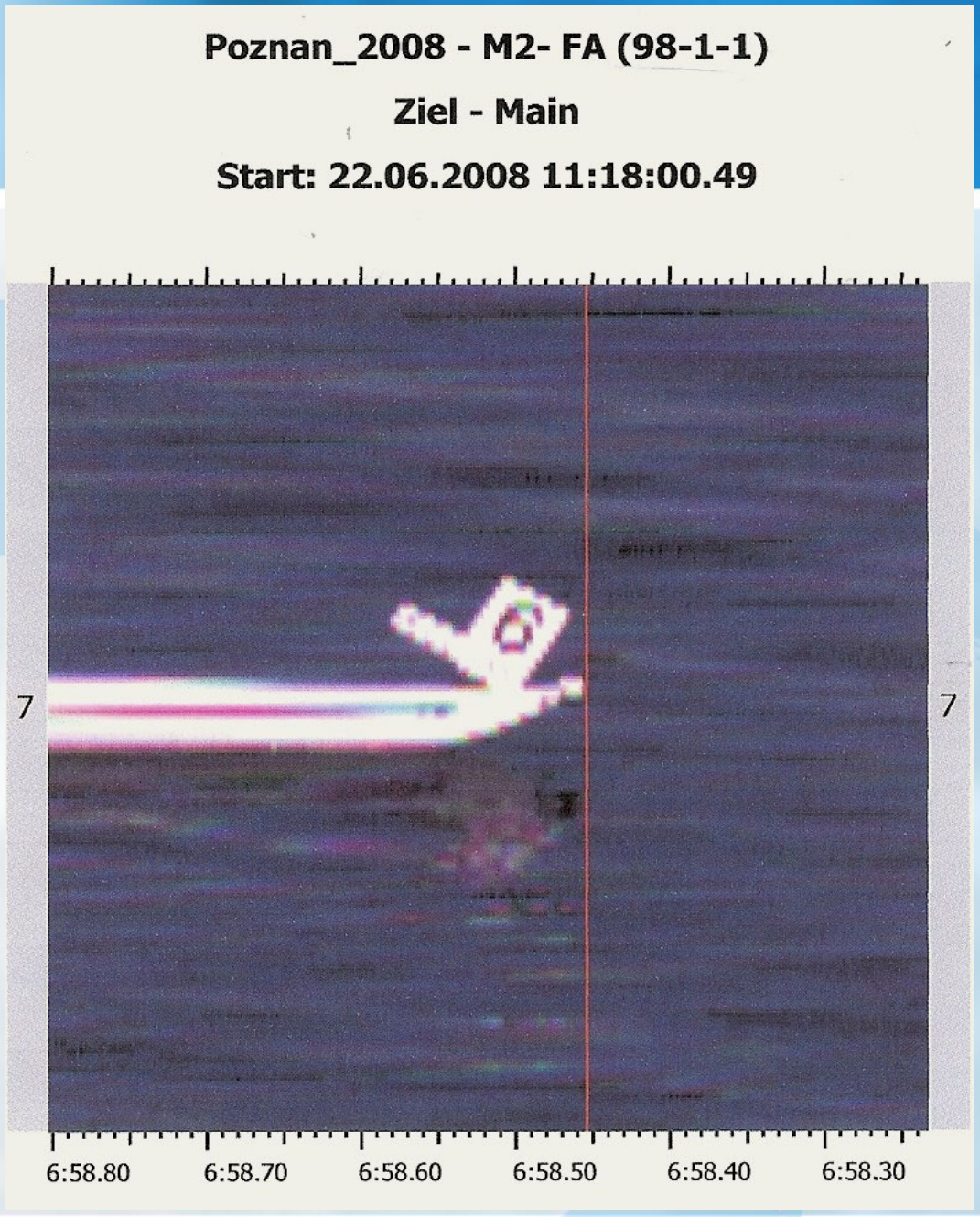

Scan'O'Vision : N0119.COL <<< 250 <<< 6:19.693 Bahn 1
Datei Funktion Bild Optionen Bildschirm Anzeigetafel DH Hilfe
6
5
4
3
2
1
6:18.5
6:19.0
6:19.5
6:20.0
6:20.5
6:21.0
6:21.5
Ergebnisse Wind : keine Messung
Rang|Ba|Nummer|Land / Verein | Zeit |
1.| 3| 0|HUN | 6:18.485 |
2.| 2| 0|RUS | 6:19.121 |
2.| 5| 0|DEN | 6:19.121 |
4.| 1| 0|NED | 6:19.517 |
5.| 4| 0|IRL | 6:26.101 |
6.| 6| 0|CHN | 6:39.797 |

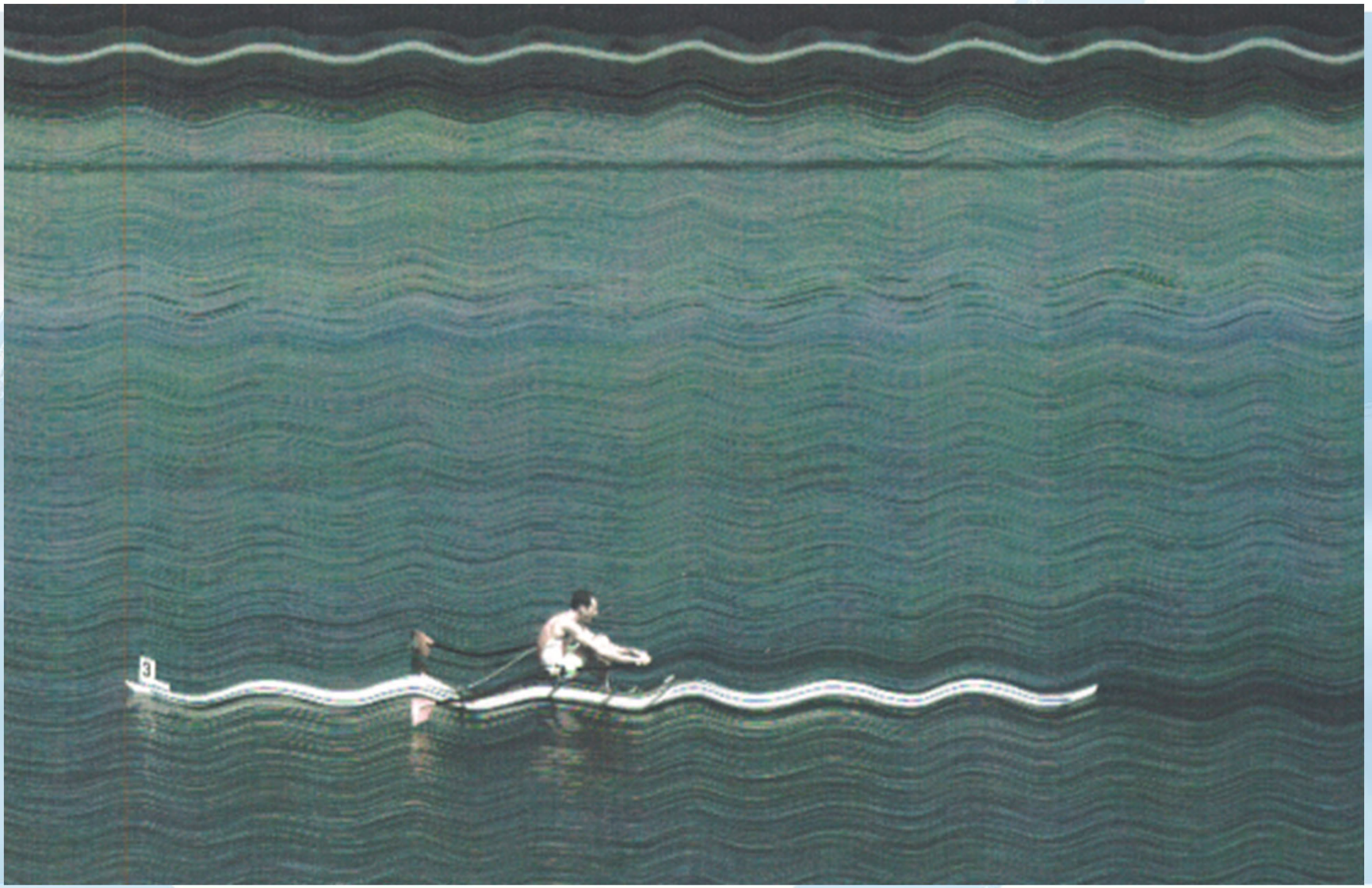
2007 Munich : LW2X FA Dead heat for bronze medal

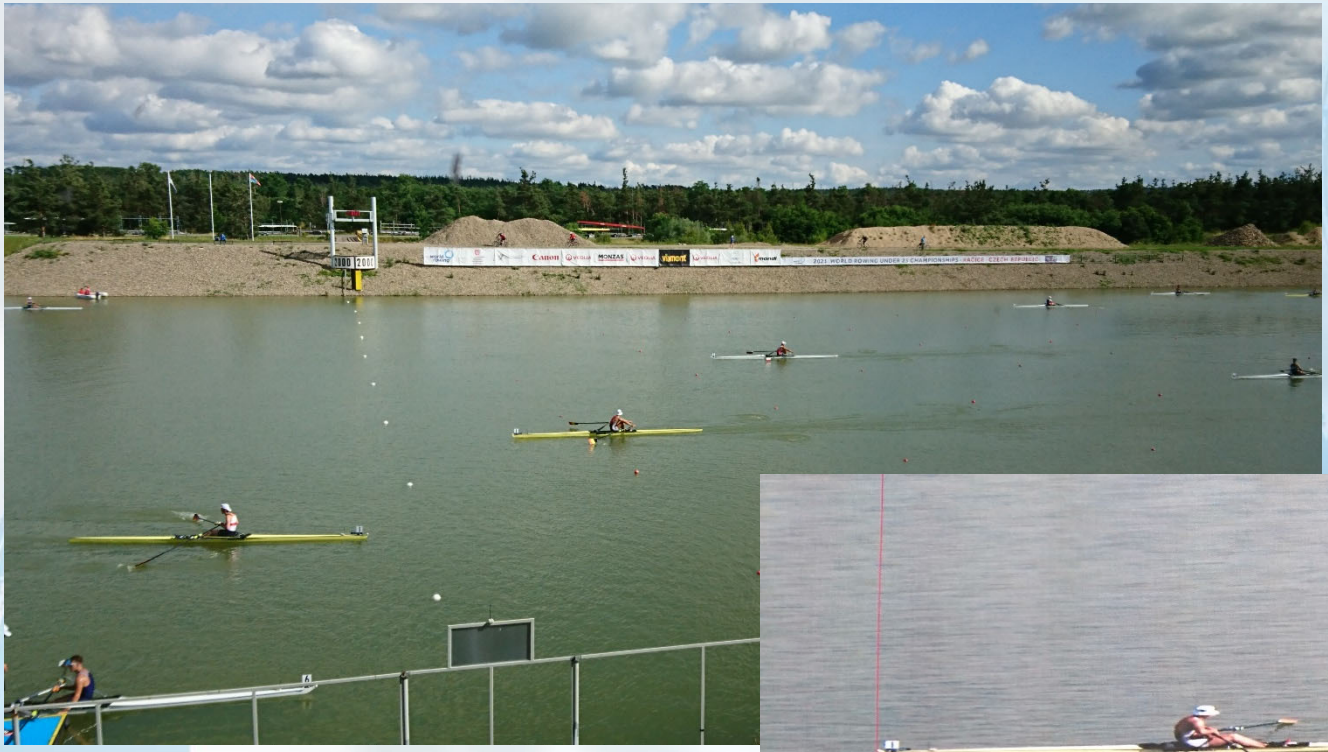
Same time
3:31.3660
2
4

1
2
3


W2x FA
OMEGA


Poznan_2008 - M2- FA (98-1-1)
Ziel - Main
Start: 22.06.2008 11:18:00.49
7
7
6:58.80
6:58.70
6:58.60
6:58.50
6:58.40
6:58.30


3



WRC III Lucerne, Switzerland — 08 - 10 July 2011

8 (Event)

RESULTS

Lightweight Women's Double Sculls

FRI 8 JUL 2011

LW2x — H2 — Race 39

World Best Time:	CHN	XU / YAN	Poznan, 2006 (POL) 2006	6:49.77
World Champion:	CAN	JENNERICH / CAMERON	Karapiro, New Zealand (NZL) 2010 World Champ'ships	8:06.20

Rank	Lane	NOC Code	Name	500m	1000m	1500m	2000m	Prog. Code	
1	6	ITA2	(b) MILANI Laura (s) MARASCA Enrica	1:45.48 (2) 1.34	3:32.39 [redacted] 1:46.91 0.02	5:18.50 [redacted] 1:46.11	7:05.96 [redacted] 1:47.46	SA/B	[redacted]
2	1	AUS	(b) McNAMARA Alice (s) EVERY-HALL Hannah	1:44.14 (1)	3:32.37 [redacted] 1:48.23 (2)	5:21.01 [redacted] 1:48.64 2.51	7:07.24 [redacted] 1:46.23 1.28	R	[redacted]
3	4	ITA1	(b) POLLINI Giulia (s) BELLO Erika	1:45.55 (3) 1.41	3:34.87 [redacted] 1:49.32 2.50	5:25.10 [redacted] 1:50.23 6.60	7:13.34 [redacted] 1:48.24 7.38	R	[redacted]
4	5	GER	(b) DRAEGER Marie-Louise (s) NOSKE Anja	DNA	DNA	DNA	7:19.00 13.04	R	
5	3	POL	(b) KEMNITZ Magdalena (s) RENC Agnieszka	1:47.33 3.19	3:41.88 1:54.55 9.51	5:39.35 1:57.47 20.85	7:37.39 1:58.04 31.43	R	
6	2	NOR	(b) GUDEM Hilde (s) SKAARNAES-MOLDESTAD Anna	1:52.87 8.73	3:54.99 2:02.12 22.62	5:55.15 2:00.16 36.65	7:54.93 1:59.78 48.97	R	

Progression System: 1 to Semifinal A/B, Remainder to Repechage (1->SA/B, 2..->R)

What happens if you do not have a Photo Finish electronic timing system?

No Photo Finish System

If there is no Photo Finish system then more officials maybe needed in the finish tower.

The ORDER OF FINISH is the most important thing!

There should be some camera on the finish line that can capture the finish line, even if it is a high definition video camera.

But there may also be one of more officials assigned to watch and record the finish order

No Photo Finish System

Timing of the Race

Option 1 – Open radio start

- A radio is held by the starter and the start commands are broadcast over the radio
- Finish line official(s) start a watch when the start commands are given and record the times as the crews finish the race.

No Photo Finish System

Timing of the Race

Option 2 – Race Umpire keeps the time of the winning crew

- The Race Umpire starts a watch when the Starter gives the start commands
- The Race Umpire stops the watch when the first crew crosses the finish line – requires a visual signal when the crew crosses (usually a flag person on the finish line)

No Photo Finish System

Timing of the Race

Option 2 – Race Umpire keeps the time of the winning crew

- The Finish Officials record the “split times” between each of the crews which are added to the winning time to get each crew’s respective time.

ThankYou!