

(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.01/1.2

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

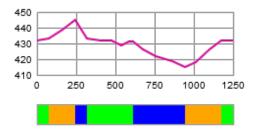
Oleg Kolomeyets

Andrey Arsenyev

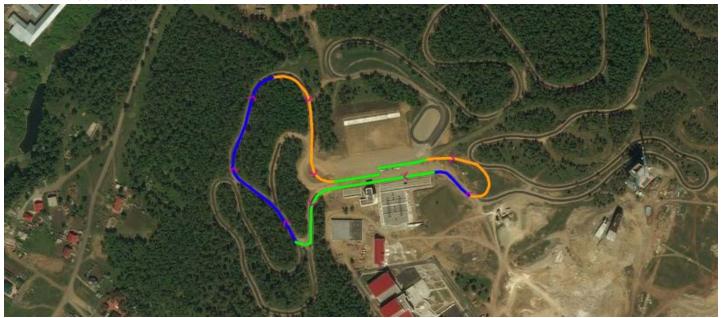
1,2 Sprint F/C

COC

Course length:	1,247m	Height difference (HD):	30m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	17m	Highest point:	445m
		Total climb (TC):	32m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Pally

Aalberg, John

	No.	PTC	% of TC
- shorter climbs	2	29	90.6
- descents	2	0	0.0
- undulated terrain	3	3	9.4

Indoor working room: (11) Stadium area:

·/ Cladidiri di Cai		mass. managrasim	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access parking modia etc.)	VOC		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classsical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					

- a) On same course
- b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves.

Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	at m	PHD (m)	PIC (m)	grad. (%)	avg. grad.(%)		
A-climb	total			0			0.0%	part of TC
B-climb	total			29			90.6%	part of TC
C-climb	total			0			0.0%	part of TC
undulated terrain	tota			3			9.4%	part of TC
	tota	l climb		32				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.02/1.4

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

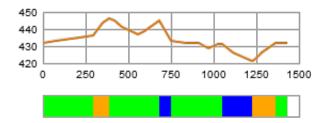
Oleg Kolomeyets

Andrey Arsenyev

1,4 Sprint F

COC

Course length:	1,433m	Height difference (HD):	25m	Lowest point:	421m
Course category:	D	Maximum climb (MC):	11m	Highest point:	446m
		Total climb (TC):	35m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

D. Aalby

Aalberg, John

	No.	PTC	% of TC
- shorter climbs	2	21	60.0
- descents	2	0	0.0
- undulated terrain	6	14	40.0

Indoor working room: (11) Stadium area:

1) Cladian area.		mass. Wertung reem.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access narking media etc.)	VAS		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classsical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					

ourse suitable for relay and skiathlon competition

- a) On same course
- b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#		at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	to	tal			0			0.0%	part of TC
B-climb		1	295	10	10	4.6 - 15.2	10.4		
		2	1,223	11	11	5.7 - 9.2	8.0		
	to	tal			21			60.0%	part of TC
C-climb	to	tal			0			0.0%	part of TC
undulated terrain	to	tal			14			40.0%	part of TC
	to	tal	climb		35				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.03/1.5

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KA7

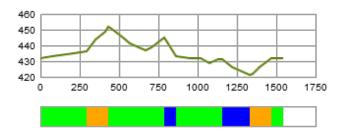
Oleg Kolomeyets

Andrey Arsenyev

1,5 Sprint F/C

COC

Course length:	1,541m	Height difference (HD):	31m	Lowest point:	421m
Course category:	D	Maximum climb (MC):	16m	Highest point:	452m
		Total climb (TC):	41m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Aalberg, John

	No.	PTC	% of TC
- shorter climbs	2	27	65.9
- descents	2	0	0.0
- undulated terrain	4	14	34.1

Indoor working room: (11) Stadium area:

i, ciaaiaii aicai		mass. menung reenn	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access parking modia etc.)	V00		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classsical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					

- a) On same course
- b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

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(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	Ė	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	to	otal			0			0.0%	part of TC
B-climb		1	295	16	16	7.8 - 16.9	11.9		
		2	1,331	11	11	5.7 - 9.2	8.0		
	to	otal	-		27		-	65.9%	part of TC
C-climb	to	otal			0			0.0%	part of TC
undulated terrain	to	otal			14			34.1%	part of TC
	to	otal	climb		41				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.04/1.7

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

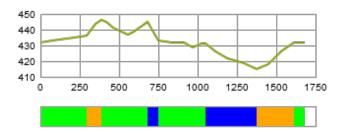
Oleg Kolomeyets

Andrey Arsenyev

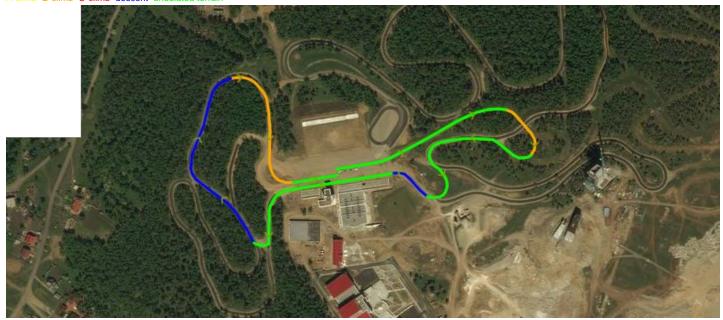
1,7 Sprint F/C

COC

Course length:	1,682m	Height difference (HD):	31m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	17m	Highest point:	446m
		Total climb (TC):	41m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Aalberg, John

	No.	PIC	% of IC
- shorter climbs	2	27	65.9
- descents	2	0	0.0
- undulated terrain	4	14	34.1

Indoor working room: (11) Stadium area:

·/ Cladidiri di Cai		mass. managrasim	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access parking modia etc.)	VOC		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classsical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					

- a) On same course
- b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	:	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	to	otal			0			0.0%	part of TC
B-climb	E	1	295	10	10	4.6 - 15.2	10.4		
		2	1,376	17	17	4.1 - 9.6	7.3		
	to	otal	-		27			65.9%	part of TC
C-climb	to	otal			0			0.0%	part of TC
undulated terrain	to	otal			14			34.1%	part of TC
	to	otal	climb	•	41			•	



- (1) Registration number:
- (2) Name of the competition site:
- (3) Name of city/region:
- (4) Organizer:
- (5) National ski association:
- (6) Contact person in the organizing committee:
- (7) Homologation inspector:
- (8) Name of course:
- (9) Competition level for course

17/53.05/1.8

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KA7

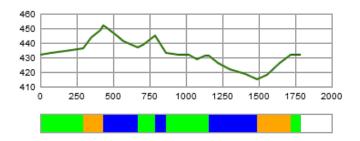
Oleg Kolomeyets

Andrey Arsenyev

1,8 Sprint F/C

COC

Course length:	1,790m	Height difference (HD):	37m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	17m	Highest point:	452m
		Total climb (TC):	47m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen



FIS Homologation Responsible

Jalby .

Aalberg, John

	No.	PIC	% of IC
- shorter climbs	2	33	70.2
- descents	3	0	0.0
- undulated terrain	5	14	29.8

Indoor working room: (11) Stadium area:

,			
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access parking modia etc.)	VOC		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats		yes			
Course suitable for following competition formats with					
a) Classsical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					

Course suitable for relay and skiathlon competition

- a) On same course
- b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	:	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	to	otal			0			0.0%	part of TC
B-climb	E	1	295	16	16	7.8 - 16.9	11.9		
		2	1,485	17	17	4.1 - 9.6	7.3		
	to	otal			33			70.2%	part of TC
C-climb	to	otal			0			0.0%	part of TC
undulated terrain	to	otal			14			29.8%	part of TC
	to	otal	climb		47				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.06/2.5

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KA7

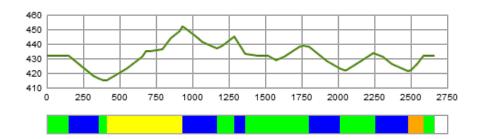
Oleg Kolomeyets

Andrey Arsenyev

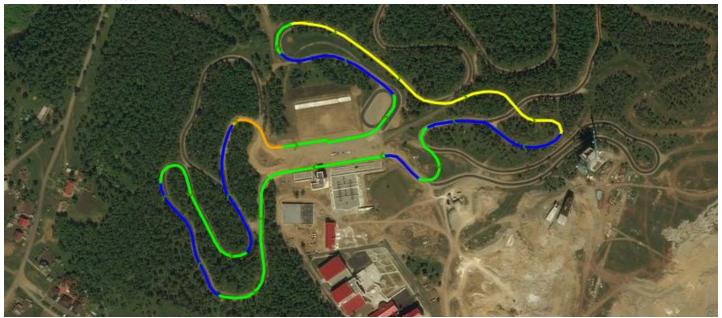
2,5 red

COC

Course length:	2,660m	Height difference (HD):	37m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	37m	Highest point:	452m
		Total climb (TC):	78m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Pally

Aalberg, John

	No.	PIC	% of TC
- major climbs	1	37	47.4
- shorter climbs	1	11	14.1
- descents	5	0	0.0
- undulated terrain	6	30	38.5

(11) Stadium area: Indoor working room:

1) Stadium area.		ilidool working room.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	ves		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

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All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	1	415	37	37	1.3 - 16.9	7.2		
	total			37			47.4%	part of TC
B-climb	1	2,480	11	11	5.7 - 12.3	10.0		
	total	-		11			14.1%	part of TC
C-climb	total			0			0.0%	part of TC
undulated terrain	total			30			38.5%	part of TC
	total	climb		78				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.07/2.5

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

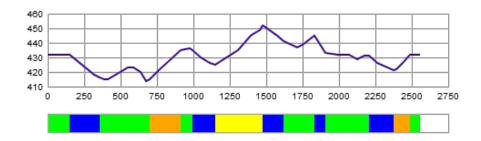
Oleg Kolomeyets

Andrey Arsenyev

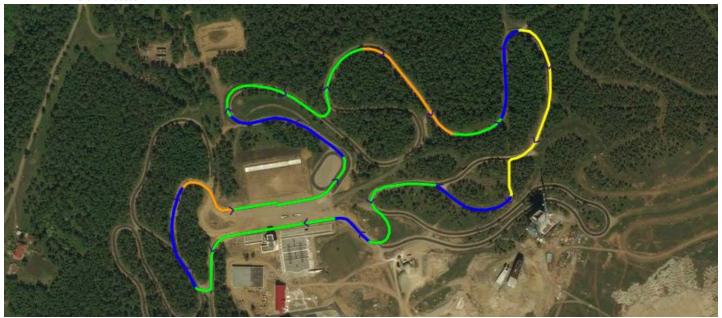
2,5 without bridge

COC

Course length:	2,557m	Height difference (HD):	38m	Lowest point:	414m
Course category:	D	Maximum climb (MC):	27m	Highest point:	452m
		Total climb (TC):	78m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Pally

Aalberg, John

	No.	PIC	% of IC
- major climbs	1	27	34.6
- shorter climbs	2	31	39.7
- descents	5	0	0.0
- undulated terrain	7	20	25.6

(11) Stadium area: Indoor working room:

.,		mass. manang realin	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		

Good infrastructure (access, parking, media, etc.)

Skitesting area along course/near stadium

yes

Warm up track near the stadium

yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

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(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m		PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb		1 1,	,150	27	27	4.7 - 16.9	8.3		
	tota	ıl .			27			34.6%	part of TC
B-climb	tota	ıl			31			39.7%	part of TC
C-climb	tota	ıl			0			0.0%	part of TC
undulated terrain	tota	ıl			20			25.6%	part of TC
	tota	ıl climb			78		·		



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.08/3.3

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

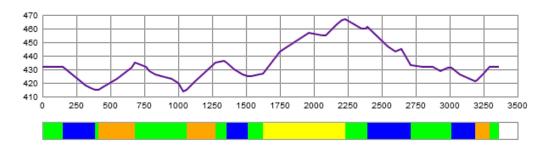
Oleg Kolomeyets

Andrey Arsenyev

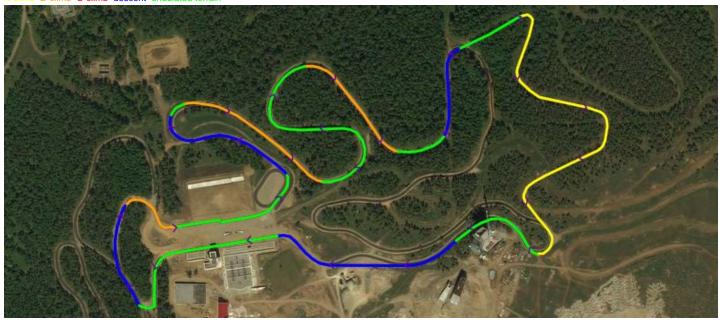
3,3 red

COC

Course length:	3,365m	Height difference (HD):	53m	Lowest point:	414m
Course category:	D	Maximum climb (MC):	40m] 3,	
		Total climb (TC):	102m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Homologation Responsible

Aalberg, John

	No.	PIC	% of TC
- major climbs	1	42	41.2
- shorter climbs	3	51	50.0
- descents	4	2	2.0
- undulated terrain	10	7	6.9

(11) Stadium area: Indoor working room:

1) Stadidili area.		indoor working room.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		

Skitesting area along course/near stadium

Warm up track near the stadium

yes

ves

ves

ves

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	1,622	40	42	-2.0 - 12.5	6.6	
	tota	I		42			41.2% part of TC
B-climb	1	415	20	20	5.8 - 16.1	7.5	
	2	1,064	20	20	9.2 - 10.0	9.4	
	3	3,185	11	11	5.7 - 12.3	10.0	
	tota	Ī	-	51			50.0% part of TC
C-climb	tota	I		0			0.0% part of TC
undulated terrain	tota	I		7			6.9% part of TC
	tota	l climb		102			



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.09/3.3

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

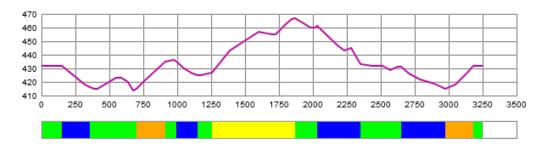
Oleg Kolomeyets

Andrey Arsenyev

3,3 skiathlon

COC

Course length:	3,251m	Height difference (HD):	53m	Lowest point:	414m
Course category:	E	Maximum climb (MC):	40m	Highest point:	467m
		Total climb (TC):	96m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Aalberg, John

01.11.2017 Valid until 30.06.2022

Date of Issue

	No.	PTC	% of TC
- major climbs	1	42	43.8
- shorter climbs	2	37	38.5
- descents	4	2	2.1
- undulated terrain	9	15	15.6

(11) Stadium area: Indoor working room:

	ilidool working room.	
yes	Timekeeping	yes
yes	Announcer	yes
no	Jury	yes
no	Race office	yes
yes		
	yes no no	yes Announcer no Jury no Race office

Skitesting area along course/near stadium

yes

Warm up track near the stadium

yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course			yes		
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	1	1,259	40	42	-2.0 - 12.5	6.6		
	tota			42			43.8%	part of TC
B-climb	1	701	20	20	9.2 - 10.0	9.4		
	2	2,975	17	17	4.1 - 12.3	8.3		
	tota			37		-	38.5%	part of TC
C-climb	tota			0			0.0%	part of TC
undulated terrain	tota			15		·	15.6%	part of TC
	tota	climb		96				



- (1) Registration number:
- (2) Name of the competition site:
- (3) Name of city/region:
- (4) Organizer:
- (5) National ski association:
- (6) Contact person in the organizing committee:
- (7) Homologation inspector:
- (8) Name of course:
- (9) Competition level for course

17/53.10/3.3 National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

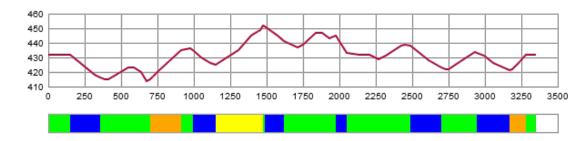
Oleg Kolomeyets

Andrey Arsenyev

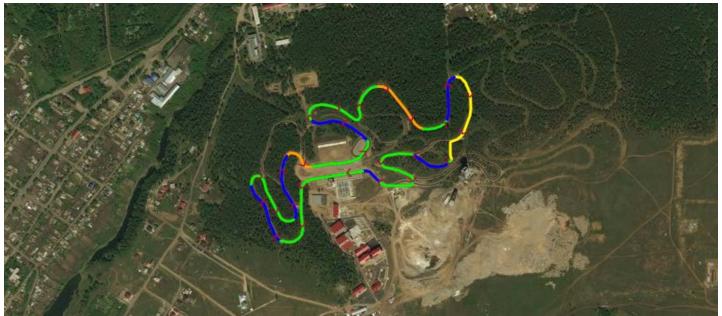
3,3 without bridge

COC

Course length:	3,348m	Height difference (HD):	38m	Lowest point:	414m
Course category:	D	Maximum climb (MC):	27m	Highest point:	452m
		Total climb (TC):	102m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen

FIS Stamp

FIS Homologation

Aalberg, John

	No.	PIC	% of TC
- major climbs	1	27	26.5
- shorter climbs	2	31	30.4
- descents	6	0	0.0
- undulated terrain	10	44	43.1

(11) Stadium area: Indoor working room:

1) Statitum area.		indoor working room.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		

Good infrastructure (access, parking, media, etc.)

Skitesting area along course/near stadium

yes

Warm up track near the stadium

yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb		1,150	27	27	4.7 - 16.9	8.3		
	tota	I		27			26.5%	part of TC
B-climb		701	20	20	9.2 - 10.0	9.4		
		3,168	11	11	5.7 - 12.3	10.0		
	tota	ľ	-	31				part of TC
C-climb	tota	I		0			0.0%	part of TC
undulated terrain	tota	I		44			43.1%	part of TC
	tota	l climb		102				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.11/3.75

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

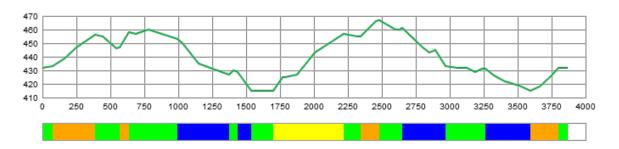
Oleg Kolomeyets

Andrey Arsenyev

3,75 blue

COC

Course length:	3,868m	Height difference (HD):	52m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	42m	Highest point:	467m
		Total climb (TC):	118m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Aalberg, John

	No.	PIC	% of TC
- major climbs	1	42	35.6
- shorter climbs	4	63	53.4
- descents	4	2	1.7
- undulated terrain	10	11	9.3

1) Stadium area:		Indoor working room:	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		

Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)			avg. grad.(%)		
A-climb	1	1,699	42	42	2.3 - 14.2	8.1		
	total			42			35.6%	part of TC
B-climb	1	77	23	23	6.6 - 8.9	7.4		
	2	566	11	11	14.7 - 23.1	15.7		
	3	2,341	12	12	3.8 - 10.4	8.4		
	4	3,592	17	17	4.1 - 12.3	8.3		
	total			63				part of TC
C-climb	total			0			0.0%	part of TC
undulated terrain	total			11			9.3%	part of TC
	total	climb		118				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.12/3.75

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

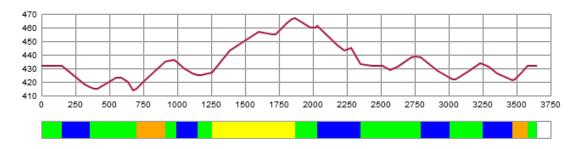
Oleg Kolomeyets

Andrey Arsenyev

3,75 skiathlon

COC

Course length:	3,650m	Height difference (HD):	53m	Lowest point:	414m
Course category:	E	Maximum climb (MC):	40m	Highest point:	467m
		Total climb (TC):	110m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Polls

Aalberg, John

	No.	PTC	% of TC
- major climbs	1	42	38.2
- shorter climbs	2	31	28.2
- descents	5	2	1.8
- undulated terrain	10	35	31.8

(11) Stadium area: Indoor working room:

	ilidool working room.	
yes	Timekeeping	yes
yes	Announcer	yes
no	Jury	yes
no	Race office	yes
yes		
	yes no no	yes Announcer no Jury no Race office

Skitesting area along course/near stadium

Warm up track near the stadium

yes

yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course			yes		
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb		1,259	40	42	-2.0 - 12.5	6.6		
	tota	u		42			38.2%	part of TC
B-climb		701	20	20	9.2 - 10.0	9.4		
		3,470	11	11	5.7 - 12.3	10.0		
	tota	ıl		31		-	28.2%	part of TC
C-climb	tota	ıl		0			0.0%	part of TC
undulated terrain	tota	ıl		35			31.8%	part of TC
	tota	al climb		110				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.13/5.0

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

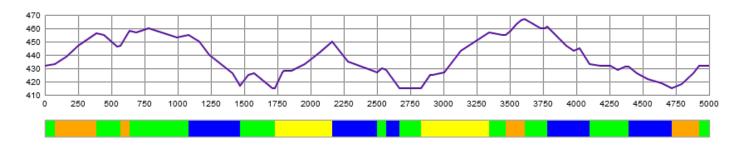
Oleg Kolomeyets

Andrey Arsenyev

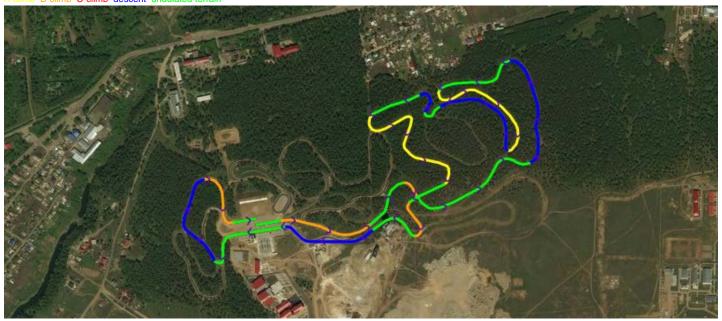
5 far

COC

Course length:	4,997m	Height difference (HD):	52m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	42m	Highest point:	467m
		Total climb (TC):	164m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Aalberg, John

	No.	PIC	% of TC
- major climbs	2	77	47.0
- shorter climbs	4	63	38.4
- descents	5	2	1.2
- undulated terrain	10	22	13.4

(11) Stadium area: Indoor working room:

i) Stadium area.		ilidool working foolil.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	ves		

Skitesting area along course/near stadium

Warm up track near the stadium

yes

yes

yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	1,733	35	35	5.0 - 22.0	8.1	
	2	2,829	42	42	2.3 - 14.2	8.1	
	total			77			47.0% part of TC
B-climb	1	77	23		6.6 - 8.9	7.4	
	2	566	11		14.7 - 23.1	15.7	
	3	3,470	12	12	3.8 - 10.4	8.4	
	4	4,721	17	17	4.1 - 12.3	8.3	
	total		-	63			38.4% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	tota			22			13.4% part of TC
	total	climb		164			



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.14/5.0

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

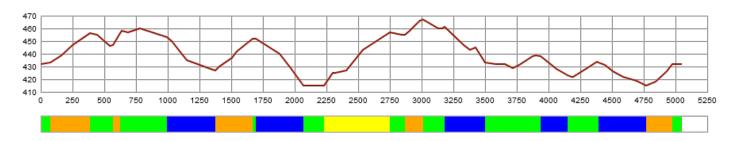
Oleg Kolomeyets

Andrey Arsenyev

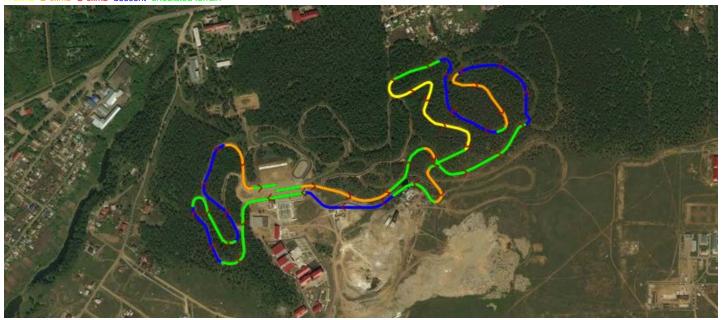
5

COC

Course length:	5,047m	Height difference (HD):	52m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	42m	Highest point:	467m
		Total climb (TC):	160m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen



FIS Homologation Responsible

Aalberg, John

	No.	PIC	% of TC
- major climbs	1	42	26.3
- shorter climbs	5	86	53.8
- descents	5	2	1.3
- undulated terrain	10	30	18.8

(11) Stadium area: Indoor working room:

r) Stadium area.		indoor working room.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		

Skitesting area along course/near stadium yes
Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	2,230	42	42	2.3 - 14.2	8.1	
	total			42			26.3% part of TC
B-climb	1	77	23	23	6.6 - 8.9	7.4	
	2	566	9	9	14.7 - 14.7	14.8	
	3	1,373	25		7.0 - 12.8	8.4	
	4	2,872	12	12	3.8 - 10.4	8.4	
	5	4,771	17	17	4.1 - 12.3	8.3	
	total			86			53.8% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			30			18.8% part of TC
	total	climb		160			



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.15/7.5

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

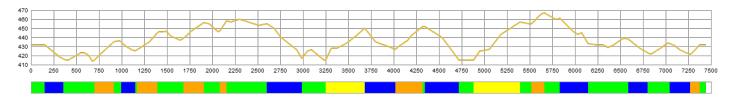
Oleg Kolomeyets

Andrey Arsenyev

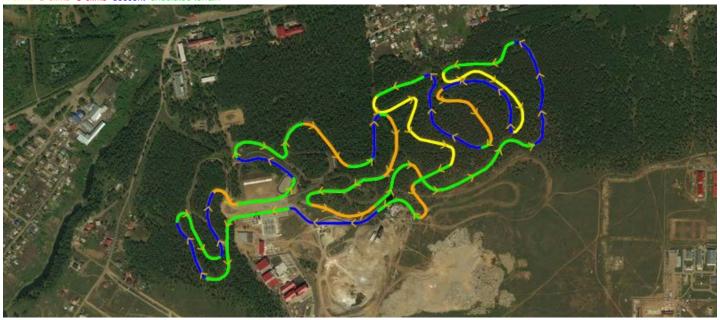
7,5

COC

	Course length:	7,446m	Height difference (HD):	53m	Lowest point:	414m
	Course category:	D	Maximum climb (MC):	42m	Highest point: 467m	
-			Total climb (TC):	247m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

Alley

Aalberg, John

	No.	PIC	% of TC
- major climbs	2	77	31.2
- shorter climbs	7	115	46.6
- descents	8	2	8.0
- undulated terrain	17	53	21.5

(11) Stadium area: Indoor working room:

1) Stadium area.		ilidool working room.	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	Ves		

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes		yes	yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measureter and inclinometer. Course profiles based on these measures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding. (16) Safety considerations:

All downhills are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/5/14

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	1	3,251	35	35	5.0 - 22.0	8.1		
	2	4,878	42	42	2.3 - 14.2	8.1		
	tota			77			31.2%	part of TC
B-climb	1	701	20	20	9.2 - 10.0	9.4		
	2	1,170	19	19	6.5 - 12.1	8.6		
	3	1,680	17	17	6.6 - 8.9	7.5		
	4	2,084	11	11	14.7 - 23.1	15.7		
	5	4,021	25		7.0 - 12.8	8.4		
	6	5,520	12	12	3.8 - 10.4	8.4		
	7	7,266	11	11	5.7 - 12.3	10.0		
	tota			115				part of TC
C-climb	tota			0				part of TC
undulated terrain	tota			53			21.5%	part of TC
	tota	l climb		247				



(1) Registration number:

(2) Name of the competition site:

(3) Name of city/region:

(4) Organizer:

(5) National ski association:

(6) Contact person in the organizing committee:

(7) Homologation inspector:

(8) Name of course:

(9) Competition level for course

17/53.16/8.3

National ski center

Schuchinsk

Cross-country Skiing Federation of Kazakhstan

KAZ

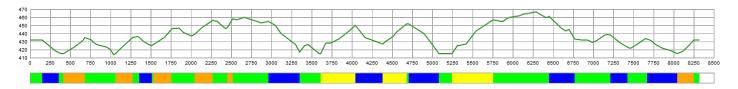
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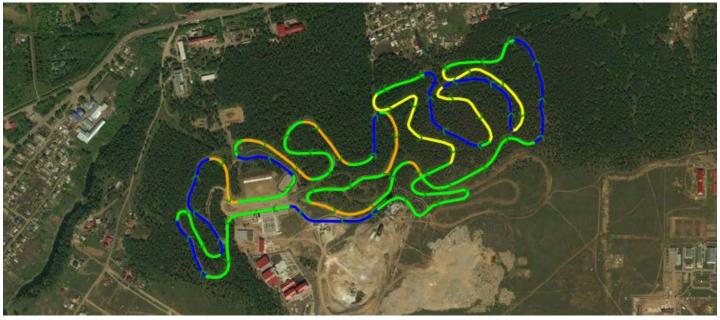
8,3

COC

Course length:	8,319m	Height difference (HD):	53m	Lowest point:	414m
Course category:	D	Maximum climb (MC):	42m	Highest point:	467m
		Total climb (TC):	265m		



A-climb B-climb C-climb descent undulated terrain



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FIS Homologation Responsible

D follow

Aalberg, John

	No.	PIC	% of TC
- major climbs	3	102	38.5
- shorter climbs	6	104	39.2
- descents	8	2	8.0
- undulated terrain	15	57	21.5

(11) Stadium area: Indoor working room:

1) Stadium area.		ilidool working room.			
Fixed stadium area	yes	Timekeeping	yes		
Fixed building	yes	Announcer	yes		
Temporary stadium	no	Jury	yes		
Temporary building	no	Race office	yes		
Good infrastructure (access, parking, media, etc.)	Ves				

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Course suitable for relay and skiathlon competition

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	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)		
A-climb	1	3,614	35	35	5.0 - 22.0	8.1		
	2	4,384	25	25	7.0 - 12.8	8.4		
	3	5,241	42	42	2.3 - 14.2	8.1		
	tota			102			38.5%	part of TC
B-climb	1	415	20	20	5.8 - 16.1	7.5		
	2	1,064	20	20	9.2 - 10.0	9.4		
	3	1,533	19	19	6.5 - 12.1	8.6		
	4	2,043	17		6.6 - 8.9	7.5		
	5	2,448	11	11	14.7 - 23.1	15.7		
	6	8,043	17	17	4.1 - 12.3	8.3		
	total			104				part of TC
C-climb	tota			0			0.0%	part of TC
undulated terrain	tota			57			21.5%	part of TC
	tota	climb		265				