



FIS NORDIC JUNIOR & CROSS-COUNTRY U23
SKI WORLD CHAMPIONSHIPS 2016



MINISTERUL
TINERETULUI
ȘI SPORTULUI



PREDEAL
CHEILE
GRĂDIȘTEI

ROMÂNIA

RÂȘNOV

FIS NORDIC JUNIOR
CROSS-COUNTRY U23
SKI WORLD CHAMPIONSHIPS

**22-28
FEB**

**OFFICIAL
INVITATION**





Gabriela Szabo
OC President
Ministry of Youth & Sports

My dear friends of ski,

I know as well as you what the memory of a well-organized competition feels, a competition in which the athletes only concern is to reach the top of their form for which they worked hard all year. As an athlete, I wandered all around the world at all the major competitions where for many times I experienced the joy of supreme triumph. But beyond medals and awards, places and people I've met always remained in my soul. And so, now, as Minister of Sport in Romania, I accepted the Presidency of the FIS NORDIC JUNIOR & CROSS-COUNTRY U23 SKI WORLD CHAMPIONSHIPS 2016. I accepted it because I want our name recognition, the Romanians fame, to be linked not only to our athletic world level performances that we achieved in many disciplines, but also by what we can do in the organizational department, hosting high level competitions. In 2013 we were praised for organizing EYOF in Brasov. Last year, the same words of appreciation were received from IBU on organizing for the first time the IBU Summer biathlon World Championships, but, you know, we were the host of FIS Ski Jumping World Cup Ladies in 2014 and 2015, to refer only at high level competition. I am also convinced that at Rasnov, Cheile Gradistei and Predeal, where we will organize this year's edition of the FIS Nordic Junior & Cross-Country U23 World Championships you will feel great, and this is because we, Romanians are recognized as very good hosts.

I am sure many of you will return to Romania, at Rasnov and Predeal or Cheile Gradistei, not only for the beauty of places, not just to visit again the famous Bran Castle, Rasnov Citadel or Dino Park, but you will find here, in the heart of the mountains, an excellent base for training, competition and recovery for both summer and especially for winter, as there are not many in the world.

We welcome you and wish you great success!

On behalf of the International Ski Federation and the Romanian Ski Biathlon Federation, the Organizing Committee is pleased to invite the FIS affiliated associations to participate in the FIS Nordic Junior World Ski Championships and FIS U23 World Ski Championships Cross Country, from February 22nd – 28th, 2015, in Rasnov, Cheile Gradistei and Predeal.



BUCUREȘTI (Airport)–PREDEAL: 130 km / 2 h

PREDEAL–RÂȘNOV: 20 km / 15 min.

RÂȘNOV–CHEILE GRĂDIȘTEI: 25 km / 30 min.

NOTE:

Please note that because of weekend tourists, all teams are advised to avoid as much as possible arrival or departure on friday or sunday after 12:00 o'clock.

ORGANIZING COMMITTEE

Address - NN, Ion Luca Caragiale Str., Rasnov , Brasov , Romania

Phone number - +40724303388 – Constantin ANDREI

Email – info@skirasnov.ro

Website - www.skirasnov.ro

NATIONAL FEDERATION

16 Vasile Conta Str. Bucharest

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office@frschibiatlon.ro

www.skibiathlon.ro

Chairman
Youth and Sports Ministry
GABRIELA SZABO

Vice - Chairman
Mayor of Rasnov
ADRIAN VESTEA

Vice - Chairman
Mayor of Predeal City
LIVIU COCOS

Vice – Chairman
Cheile Gradistei Owner
OVIDIU GARBACEA

Deputy Chairman
President of the Romanian Ski Biathlon Federation
DAN MIHO

Secretary General
PUIU GASPARI

Executive Director
CONSTANTIN ANDREI

Finance
OANA POPESCU

Head of Volunteers
LUCIAN CAZACU

Special Projects
PEPENE NICOLAE

Communication & Marketing
INOCENTIU VOINEA

CC Sport Director
IOAN LUNGOCIU

CC Venue Manager
ALEX GARBACEA

SJ & NC Sport Director
FLORIN SPULBER

SJ Venue Manager
LIVIU BUTNARIU

CC & NC & SJ Race Office Director
SASHA SPULBER

Financial Assistant CC
OANA POPESCU

General Security
Col. LIVIU COMAN

Ceremonies & Protocol
PEPENE NICOLAE

Website
TBD

CC Venue Marketing
BOGDAN GARBACEA

Medical service
DAN TANASE

Financial Assistant SJ
AGAFITEI GABRIELA

Emergency Plan
BOGDAN PROCA

CC Flower Ceremony
CRISTINA BEJENARU

CC Press Office
EMILIAN CORNEANU

SJ & NC Venue Marketing
INOCENTIU VOINEA

Accreditation
NELLY POPUTOAIA

Financial Assistant NC
CRISTINA BAJENARU

Traffic
C.Sef MIRCEA POPA

SJ Flower Ceremony
NICOLETA. COMANESCU

SJ & NC Press Office
GABRIELA MAGDO

Rasnov Branding
City Hall

Transportation
ADI APOSTU

Legal Advisor
LUCIAN VOINEA

NC Flower Ceremony
RODICA LAZAR

CC Mixed Zone

Predeal Branding
City Hall

CC & NC Transportation
MARCEL FRATILA

SJ Transportation
ALEXANDRA GIURGEA

SJ Mixed Zone

Cheile Gradistei Branding
BOGDAN GARBACEA

CC Accommodation
CARMEN CORNEANU

NC Accommodation
RODICA LAZAR

SJ Accommodation
C-TIN UNGUREANU

CC Chief of Competition
EMIL HECICO

NC Chief of Competition
Robert KRAUTHGADNER

SJ Chief of Competition
PAUL GANZENHUBER

CC Comp. Secretary
CRISTINA BEJENARU

NC Comp. Secretary
SABINE MEINEL

SJ Comp. Secretary
ADELAIDA BAILA

CC Chief of Course
EFTIMIE POP

NC Chief of Course
DAN BOGDAN

SJ Chief of Hill
LIVIU CHISCA

Timing
TBD

Timing
TBD

Data service
TBD

IT Coordination
GEORGE DUCAR

ORGANIZING COMMITTEE OFFICIALS

CROSS COUNTRY

Chief of Competition

TD Nat. ass

Ass.Chief of Competition

Race Secretary

Chief of Course

Chief of Stadium

Emil Hecico

Florin Ercus

Iubu Nicoleta

Cristina Bejenaru

Eftimie Pop

Gyula Kiss

SKI JUMPING

Chief of Competition

Ass.Chief of Competition

Race Secretary

Chief of Hill

Paul Ganzenhuber

Florin Spulber

Adriana Nica

Liviu Chisca

NORDIC COMBINED

Chief of Competition

Ass.Chief of Competition

Race Secretary

Chief of Course

Chief of Hill

Robert Krautgadner

Rosu Adrian

Sabine Meinel

Dan Bogdan

Liviu Chisca



FIS OFFICIALS

CROSS COUNTRY

FIS Coordinator /Press&Media Coordinator
Technical Delegate
TD Assistant
Jury Member

Michal Lamplot (*FIS*)
Bruno Heinzer (SUI)
Zofia Kielpinska (POL)
Jakub Teichman (CZE)

SKI JUMPING

FIS Coordinator /Equipment Control M
Technical Delegate
TD Assistant
Equipment Control L
Chief of Distance Measurer
Judge
Judge
Judge
Judge
Judge

Horst Tielmann (*FIS*)
Ivo Greger (CZE)
Per Elias Kalfoss (NOR)
Renata Nadarkiewicz (*FIS*)
Hans Elvsween (NOR)
Andrei Balasz (ROU)
Pekka Tervahartiala (FIN)
Michal Lorenz (GER)
Giambattista Carli (ITA)
Eduard Suboch (RUS)

NORDIC COMBINED

FIS Coordinator /Equipment Control
Technical Delegate
TD Assistant
MEDICAL/ANTIDOPING

Toni Guggemoos (GER)
John Heiling (CAN)
Vladimir Frak (SVK)
Stanislaw Szymanik (POL)



PROGRAMME

CROSS COUNTRY – CHEILE GRADISTEI

Sunday 21.02.2016	11:00-14:00 Official Trainings (JWSC, U23) <i>17:00 TCM</i>
Monday 22.02.2016	09:00 Sprint L/M (F) Qualification (U23) 11:00 Sprint L/M (F) Final (U23) 13:30 Sprint L/M (F) Qualification (JWSC) 15:30 Sprint L/M (F) Final (JWSC) <i>18:00 TCM</i>
Tuesday 23.02.2016	10:00 Ladies 10 km C (U23) 12:00 Men 15 km C (U23) 14-16:30 Official Trainings (JWSC) <i>17:00 TCM</i>
Wednesday 24.02.2016	10:00 Ladies 5 km C (JWSC) 12:00 Men 10 km C (JWSC) 14:00-16:30 Official Trainings (U23) <i>17:00 TCM</i>
Thursday 25.02.2016	10:00 Skiathlon Ladies 7,5C/7,5F (U23) 12:00 Skiathlon Men 15C/15F (U23) 14:00-16:30 Official Trainings (JWSC) <i>17:00 TCM</i>
Friday 26.02.2016	10:00 Skiathlon Ladies 5C/5F (JWSC) 12:00 Skiathlon Men 10C/10F (JWSC) 14:30-16:30 Official Trainings (JWSC)
Saturday 27.02.2016	10:00-13:00 Official Training (JWSC) <i>17:00 TCM</i>
Sunday 28.02.2016	10:00 Relay Ladies 4x3, 3 km C/F (JWSC) 12:00 Relay Men 4x 5 km C/F (JWSC)



SKI JUMPING - RÂȘNOV

Monday 22.02.2016	19:00 TCM –Râșnov City Hall
Tuesday 23.02.2016	11:30 Official Trainings Ladies HS100 13:30 Official Trainings Men HS100
Wednesday 24.02.2016	11:30 Official Trainings Ladies HS100 13:30 Official Trainings Men HS100 16:00 TCM Men–Râșnov City Hall 17:00 TCM Ladies–Râșnov City Hall
Thursday 25.02.2016	08:30 Trail Round (HS100) Individual Ladies 09:30 Competition (HS100) Individual Ladies 11:45 Trail Round (HS100) Individual Men 13:00 Competition (HS100) Individual Men
Friday 26.02.2016	11:30 Official Trainings Team HS100 13:30 Official Trainings Team HS100 16:00 TCM Men–Râșnov City Hall 17:00 TCM Ladies–Râșnov City Hall
Saturday 27.02.2016	12:00 Trail Round (HS100) Team 13:00 Competition (HS100) Team 15:30 Official Trainings Mixed Team HS100-optional
Sunday 28.02.2016	12:00 Trail Round (HS100) Mixed Team 13:00 Competition (HS100) Mixed Team



NORDIC COMBINED

Sunday 21.02.2016	20:00 TCM Hotel Piatra Craiului
Monday 22.02.2016	09:00-12:00 Official Trainings HS100 Individual - Râșnov 14:00-16:00 Official Trainings Cross Country - Predeal
Tuesday 23.02.2016	8:30-11:30 Official Trainings HS100 Individual - Râșnov 14:00-16:00 Official Trainings Cross Country - Predeal 18:00 TCM Hotel Piatra Craiului
Wednesday 24.02.2016	09:00 Trail Round (HS100) Individual Gundersen 10:00 Competition (HS100) Individual Gundersen 14:00 Individual 10 km Gundersen
Thursday 25.02.2016	15:15 Official Trainings HS100 Individual - Râșnov 09:00-11:00 Official Trainings Cross Country 5 km - Predeal 18:00 TCM Hotel Piatra Craiului
Friday 26.02.2016	09:00 Trail Round (HS100) Team Gundersen - Râșnov 10:00 Competition (HS100) Team Gundersen - Râșnov 13:30 Competition 4x5km Team Gundersen - Predeal
Saturday 27.02.2016	09:00-11:00 Official Training (HS100) Team - Râșnov 14:00-16:00 Official Trainings Cross Country Team - Predeal 18:00 TCM Hotel Piatra Craiului
Sunday 28.02.2016	09:00 Trail Round (HS100) Individual Gundersen - Râșnov 10:00 Competition (HS100) Individual Gundersen - Râșnov 14:00 Individual 5 km Gundersen - Predeal

CEREMONIES LOCATION

Opening Ceremony	Tuesday 23.02.2016	20:00	Râșnov
Victory Ceremony	Wednesday 24.02.2016	19:00	Cheile Grădiștei/Predeal
	Thursday 25.02.2016	19:00	Râșnov/Cheile Grădiștei
	Friday 26.02.2016	19:00	Cheile Grădiștei/Predeal
	Saturday 27.02.2016	19:00	Râșnov
Closing ceremony	Sunday 28.02.2016	after competition	Râșnov/Cheile Grădiștei/Predeal

FULL PROGRAMME

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
	21.02.2016	22.02.2016	23.02.2016	24.02.2016	25.02.2016	26.02.2016	27.02.2016	28.02.2016
JWSC Cross-Country	Official Training* 11:00 - 14:00	(U23) Sprint L/M (F) 09:00 Qual 11:00 Final	Official Training 14:00 - 16:30	Ladies 5km 10.00 Men 10 km (C) 12.00	Official Training 14.00–16.30	Skiathlon/ 10.00: Ladies 5C/5F 12.00 Men 10C/10F Official Training 14:30–16:30	Official Training 10:00–13:00	Relay L 4x3,3 km C/F 10:00 Relay M 4x5 km C/F 12:00
U 23 WSC Cross-Country	Official Training 11:00 - 14:00	(JWSC) Sprint L/M (F) 13:30 Qual 15:30 Final	Ladies 10 km (C) 10.00 Men 15 km (C) 12.00	Official Training 14.00–16.30	Skiathlon 10.00: Ladies 7,5C/7,5F 12.00: Men 15C / 15 F			
JSWC SKI JUMPING Men (HS100)			Official Training 13:30	Official Training 13:30	Individual 11:45 - Trial 13:00 - Competition	Official Training Team 13:30	Team 12:00 - Trial 13:00 - Competition	Mixed Team 12:00 - Trial 13:00 - Competition
JSWC SKI JUMPING Ladies (HS100)			Official Training 11:30	Official Training 11:30	Individual 8:30 - Trial 9:30 - Competition	Official Training Mixed Team (ladies) 11:30	Training Mixed Team (ladies) Optional 15:30	
NORDIC COMBINED Jumping (HS100)		Off. Training 9:00- 12:00	Off. Training 8:30	Ind. Gund. 9.00 - Trial 10.00 - Competition	Off. Training 15:15	Team Gund. 9:00 - Trial 10:00 - Competition	Off. Training Team 9:00	Ind. Gund. 9:00 - Trial 10:00 - Competition
NORDIC COMBINED Cross-Country		Official Training CC 14:00-16:00	Official Training CC 14:00-16:00	Ind. Gund. 10km (F) CC 14:00	Official Training CC 9:00-11:00	Team Gund. 4 x 5 km, F 13:30	Off.Training CC 14:00-16:00	Ind. Gund. 5Km (F) CC 14:00
TCM								
Cross-Country Cheile Gradistei	TCM 17:00	TCM 18:00	TCM 17:00	TCM 17:00	TCM 17:00		TCM 17:00	
Ski Jumping M Rasnov		TCM 19:00 Rasnov City Hall		TCM 16:00		TCM 16:00		
Ski Jumping L Rasnov				TCM 17:00		TCM 17:00		
Nordic Combined Predeal	TCM 20:00 Paraul Rece		TCM 18:00		TCM 18:00		TCM 18:00	
CEREMONIES								
Cross-Country Cheile Gradistei			OPENING CEREMONY for CC, SJ, NC Rasnov 20:00	Victory Ceremony for CC at Cheile Gradistei 19:00	Victory Ceremony for CC, at the venue, after competition	Victory Ceremony for CC at Cheile Gradistei 19:00		CLOSING CEREMONY CC Cheile Gradistei, after competition
Ski Jumping Rasnov					Victory Ceremony for SJ at Rasnov 19:00		Victory Ceremony for SJ at Rasnov 19:00	CLOSING CEREMONY SJ Rasnov Arena, after competition
Nordic Combined Predeal				Victory Ceremony for NC at Predeal 19:00		Victory Ceremony for NC at Predeal 19:00		CLOSING CEREMONY NC Predeal venue, after competition

*Subject to Jury decision



RULES

FIS Rules for the FIS Nordic Junior World Ski Championships and FIS U23 World Ski Championships Cross Country, will apply :

http://www.fis-ski.com/mm/Document/documentlibrary/MajorEvents/03/66/25/RulesJWSC-U23E-2016_Final_inclCover_Neutral.pdf

ENTRIES

Right to participate

All National Ski Associations are right to participate affiliated to FIS are entitled to participate.

To be eligible for participation in FIS Nordic Junior World Ski Championships and FIS U23 World Ski Championships Cross Country, the skiers:

- must be a citizen of the country entering him (article 203.5 ICR)
- have a valid FIS Code
- fulfill any eligibility and qualification criteria laid down in this rules

NUMBER OF COMPETITORS AND OFFICIALS

Every National Ski Associations can send the following maximum number of competitors and officials:

A. JUNIOR WORLD SKI CHAMPIONSHIPS

8 Cross-Country competitors Men	4 allowed to start per event
8 Cross-Country competitors Ladies	4 allowed to start per event
5 Ski Jumping competitors Men	4 allowed to start per event
5 Ski Jumping competitors Ladies	4 allowed to start per event
6 Nordic Combined competitors	4 allowed to start per event

In all, a national team may thus comprise maximum 32 competitors.

If participating in one discipline:	6 Officials
If participating in two disciplines:	12 Officials
If participating in three or four disciplines:	18 Officials
If participating in all disciplines:	20 Officials



B. U23 WORLD SKI CHAMPIONSHIPS CROSS COUNTRY

6 Men Cross-Country	4 allowed to start per event
6 Ladies Cross-Country	4 allowed to start per event
8 Officials if participating in all disciplines	
4 Officials if participating only in one discipline (Ladies or Men)	

C. Quota System for Ski Jumping competitors Men

Athletes Quota: 80 (maximum quota)

NSA Quota: up to 5 per NSA (as a maximum) 4 allowed to start per event

Qualification System

Basic Quota: Each participating NSA is allowed to enter up to two athletes in Ski Jumping men.

Host Nation: The host nation is expected to enter (a) competitor(s) up to the maximum NSA quota of 5.

Allocation of Quotas: The allocation of additional quotas per NSA is based on the COC Ranking List (CRL) composed of the results of the past and current seasons. The allocation will be made by assigning one quota place per competitor from the top of the standings downwards.

Once a NSA has achieved the maximum number of 5 quota places, the next eligible NSA on the CRL will be allocated a place until the total of 80 competitors is reached (including host nation). If the number of 80 cannot be reached with the CRL, the FIS CUP standings composed of the results of the last and current season will be taken into consideration.

Process and Timeline: The final quotas based on entries (see art. 10.3) and using the CRL resp. FIS Cup standings will be calculated and announced 2 weeks prior to the JWSC.

AGE LIMITS

The FIS competition year is 1st July – 30th June of the following year.

In order to compete in international competitions a competitor must have reached his 16th birthday before the end of the calendar year (1st January – 31st December) in question.

Nordic Junior World Ski Championships

Season / Age / Years of birth

2015-16 / 16-20 / 1996, 1997, 1998, 1999, 2000

U23 World Ski Championships Cross-Country

Season / Age / Years of birth

2015/16 / 21-23 / 1993, 1994, 1995



REGISTRATION

Preliminary entry

By DECEMBER 15TH. Each National Schi Association must make the preliminary entry with the maximum number of competitors, officials and service staff according to the point Number of competitors and officials.

FIS Online Registration system must be used.

Important : Preliminary entry are mandatory for all teams (see 11.3 of the JWSC & U23 WSC Rules)

Late entry : After the deadline the FIS online registration remain open ,however, the LOC is not obliged to arrange accommodation for the NSA ,which makes late entries

Entry by name

All the participating NSAs must send their entries by names through the online registration system. The system will be opened for entry by name as soon as the preliminary entry has been done. Entries by name will be used by the LOC to prepare accreditations and to prepare the final entry list

Change of names will still be possible until the day before the first TCM-20.02.2015.

Final entries

The final entry for each competition has to be done in the race office until 2 hours before the respective Team Captains Meeting. Only competitors from the final team entry submitted according to article 10.3 of the JWSC & U23 WSC rules can be chosen.

ACCOMMODATION

Team /athletes will be accommodated in hotel *** (or ** on request if it is available) of a good standard in Rasnov, Cheile Gradistei and Predeal, from 5 to maxim 15 minutes by car from the venues.

The LOC are a good cooperation with the hotels and can assure an adequate accommodation especially adjusted to the needs of the athletes and teams.

The hotels are adapted to the needs of the athletes, especially regarding the selection of food and times for meals served at the hotel. Three meals (breakfast, lunch, dinner) per day will be served at the hotel with sufficient quantity of food and 1 soft drink per meal.

Price per night per person in double room with full board including 1 soft drink per meal :

Hotel *** 75 EUR

Hotel ** 65 EUR

Single room /double room single use supplement of 15 Euro /night (accommodation in single rooms will only be possible if accommodation in double rooms is numerically not possible).

Teams must use the FIS online registration system for accommodation reservation.

The LOC won't be responsible for those teams wishing to take care of their own accommodation arrangements. NSAs must inform the LOC via the online registration system if they take care of the accommodation themselves.



DEADLINE FOR ENTRIES

Within December 23rd, 2015 no of double and single rooms and arrival/departure days must be communicated .Please note that OC cannot guarantee for rooms and or prices after this date.
As soon the OC will receive the request will send an offer to the NSA.

Within February 12th, 2015 NSA hast to specify its final accommodation request including exact numbers, room types and arrival/departure.

It is the responsibility of the NSAs and SRS to cancel rooms if they do not need them, for example if they make a change to their team entry. The preliminary entry counts as a booking.

PAYMENT

30 % Deposit by bank transfer within January 12th, 2016.

The Balance will be settled after final entries in cash, card payment or bank transfer - dedline for final payment 20.02.2016

CANCELATION FEE

The final size of the team at least 7 full days before the official Opening Ceremony (size tolerance +/-10%). If NSA changes the figures with more than 10%, the NSA in obliged to pay the difference between the effective and announced persons (changes to numbers bigger than+/-10%, no shows).

This rule does not apply if the quota of athletes has changed.

In case of no show no refund (100%of the reservation has to be paid).

TRANSPORTS

Transport Airport - Venue

Bus reservations can be aranged at Henri Coanda Airport.

Travel arrangements and travel costs will be based on the demands of a team and will be communicated early in winter.

Transport official Hotels - Stadium

The Organising Committee has to provide to the teams a shuttle service between the official hotels and the stadiums. A suitable transport schedule will be fixed in cooperation between the teams and the OC. Teams booking their own accommodation are responsible to arrange their own transportation. The OC does not have to provide a shuttle service for these teams.



ANTI-DOPING

Anti-doping Controls and blood testing are compulsory and will be carried out according to the FIS Rules, at each venue.

INSURANCE

All athletes and team officials have to be insured by their own NSA. All participants have to be covered by an adequate insurance policy for medical costs, accidents, injury, illness and civil liability, The Organizing committee has coverage for third party liability insurance only

ACCREDITATION OFFICE

The accreditation office will be at Rasnov 18 from 28 to february

RACE OFFICE

Race offices will be at the respective stadiums for ski jumping in Rasnov and for cross country in Cheile Gradistei.

Opening Hours

Rasnov	8:00 – 18:00
Cheile Gradistei	8:00 – 18:00

WAX CABINS

Waxing cabins are only at the venue.



COURSES

Sprint

Junior & U23 ladies: 1x1.3km free-sprint ladies course

Junior & U23 men: 1x1.5km free-sprint men course

Interval

Junior ladies: 5km classic-1x5km JWSC course

Junior men: 10km classic-2x5km JWSC course

U23 ladies: 10km classic-2x5km JWSC course

U23 men: 10km classic-3x5km JWSC course

Skiathlon

Junior ladies: 5km classic+5km free (2x2.5 RED skiathlon course+2x2.5km BLUE skiathlon course)

Junior men: 10km classic+10km free (4x2.5 RED skiathlon course+4x2.5km BLUE skiathlon course)

U23 ladies: 7.5km classic+7.5km free (3x2.5 RED skiathlon course+3x2.5km BLUE skiathlon course)

U23 men: 15km classic+15km free (6x2.5 RED skiathlon course+6x2.5km BLUE skiathlon course)

Relay (TBD)

Junior ladies: 2x3.3km classic+2x3.3km free (2x3.3km A course+2x3.3km A course)

Junior men: 2x5km classic+2x5km free (2x2x2.5km B course+2x2x2.5km B course)

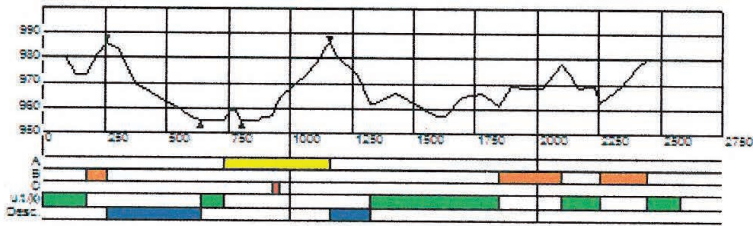
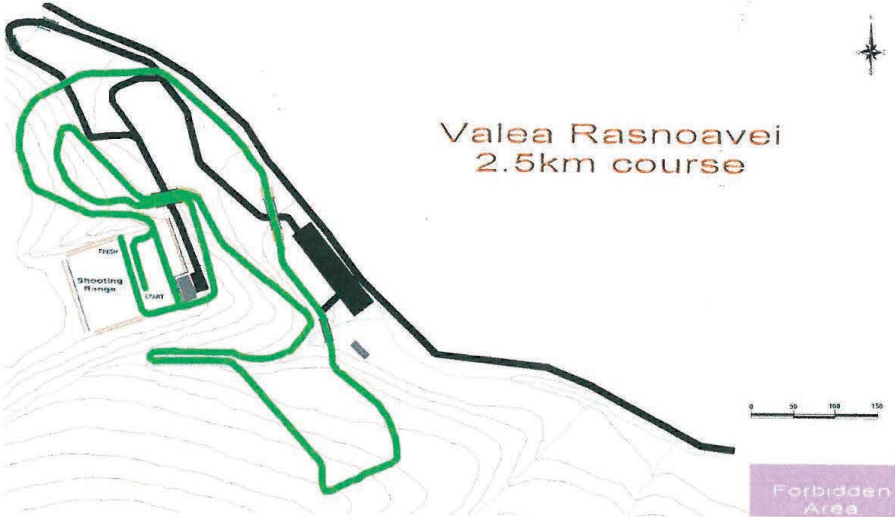
Relay 2-nd option

Junior ladies: 2x3.3km classic+2x3.3km free (2x2x1.7km RED relay course+2x2x1.7km BLUE relay course)

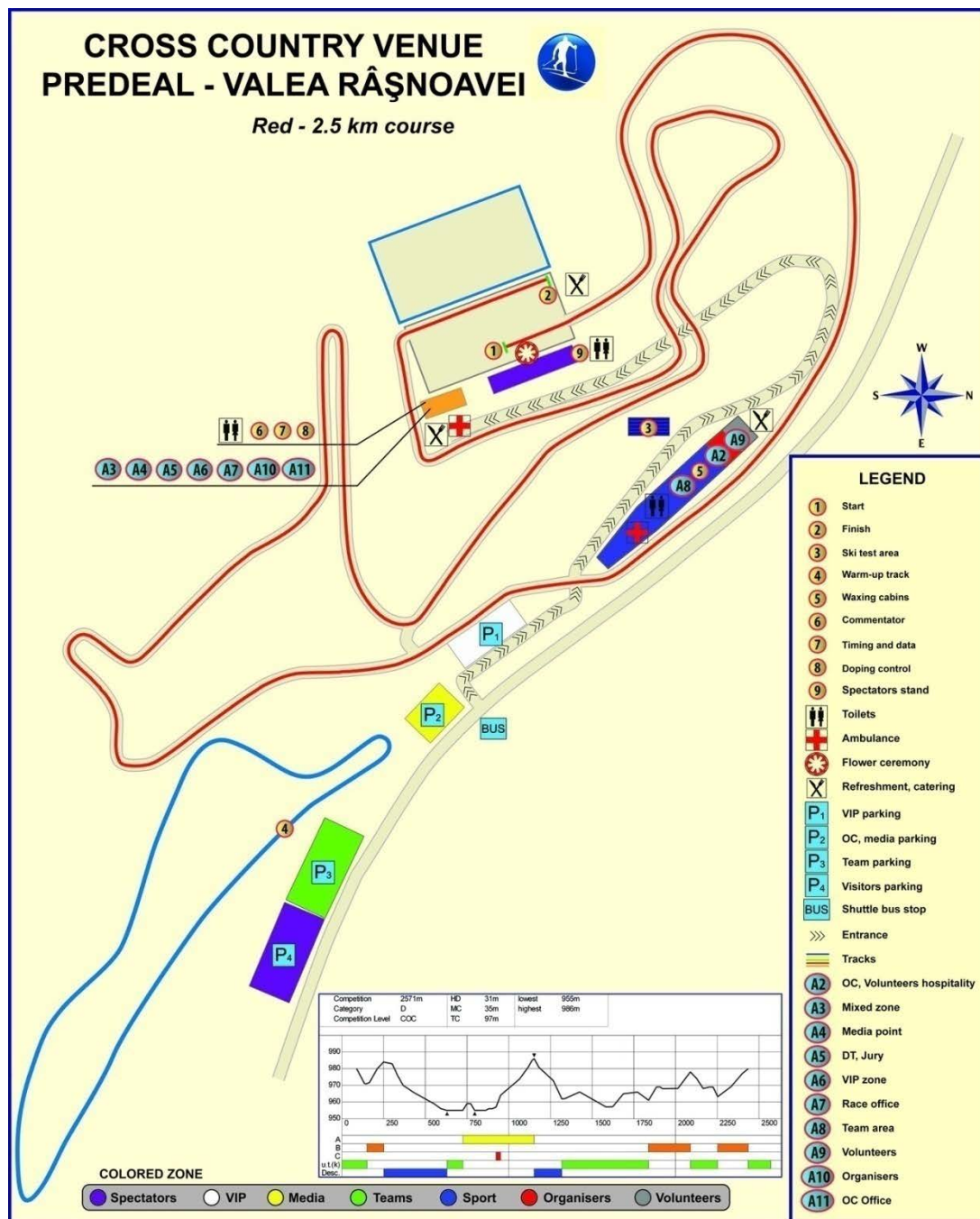
Junior men: 2x5km classic+2x5km free (2x2x2.5km RED relay course+2x2x2.5km Blue course)

MAPS & CERTIFICATE

Maps of Predeal / Valea Rasnoavei (Cross-Country Nordic)

 CERTIFICATE OF FIS HOMOLOGATED CROSS-COUNTRY COURSE FIS CROSS-COUNTRY COMMITTEE 																			
(1) Registration Number: (2) Location of the competition site: (3) Organizer: (4) National Ski Association: (5) Contact person in the organizing committee: (6) Homologation inspector: (7) Name of course: (8) Description of course:	13/03.02/2,5 Predeal, Romania FRSB Federatia Romana de Schi + Biathlon Gaspar Puiu Emil Hecico Valea Rasnoavei 2,5 km																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Course length:</td> <td style="padding: 2px;">2578 m</td> <td style="padding: 2px;">Height Difference (HD):</td> <td style="padding: 2px;">31 m</td> <td style="padding: 2px;">Lowest point:</td> <td style="padding: 2px;">955 m</td> </tr> <tr> <td style="padding: 2px;">Category:</td> <td style="padding: 2px;">D</td> <td style="padding: 2px;">Maximum Climb (MC):</td> <td style="padding: 2px;">35 m</td> <td style="padding: 2px;">Highest point:</td> <td style="padding: 2px;">986 m</td> </tr> <tr> <td style="padding: 2px;">Competition Level:</td> <td style="padding: 2px;">COC</td> <td style="padding: 2px;">Total Climb (TC):</td> <td style="padding: 2px;">97 m</td> <td colspan="2"></td> </tr> </table>		Course length:	2578 m	Height Difference (HD):	31 m	Lowest point:	955 m	Category:	D	Maximum Climb (MC):	35 m	Highest point:	986 m	Competition Level:	COC	Total Climb (TC):	97 m		
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Category:	D	Maximum Climb (MC):	35 m	Highest point:	986 m														
Competition Level:	COC	Total Climb (TC):	97 m																
																			
																			
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%; vertical-align: top;"> FIS Office  Pierre Mignerey </td> <td style="width: 33%; vertical-align: top;"> FIS Stamp Internat. Ski Verband FIS Blochstrasse 2 / Postfach CH-3653 Oberhofen </td> <td style="width: 33%; vertical-align: top;"> FIS Homologation Responsible  Hermod Bjørkestøl </td> <td style="width: 33%; vertical-align: top;"> Date of Issue 17.01.2013 Valid until 30.06.2018 </td> </tr> </table>		FIS Office  Pierre Mignerey	FIS Stamp Internat. Ski Verband FIS Blochstrasse 2 / Postfach CH-3653 Oberhofen	FIS Homologation Responsible  Hermod Bjørkestøl	Date of Issue 17.01.2013 Valid until 30.06.2018														
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Cross-Country venue for Nordic Combined





No.

385 / ROM 2

CERTIFICATE OF JUMPING HILL
CERTIFICAT DE CONFORMITE
SCHANZENPROFILBESTÄTIGUNG

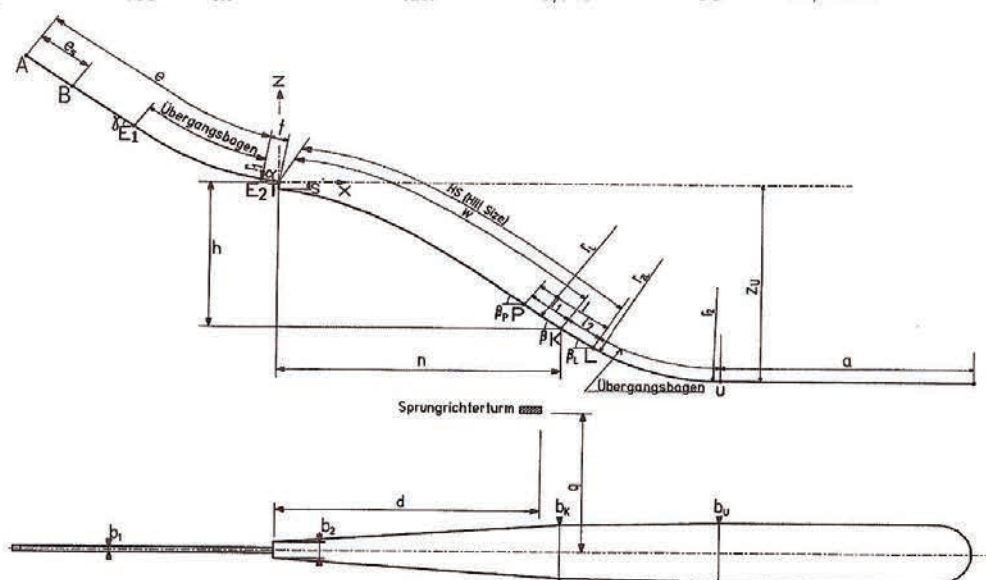
Date of issue 16.01.2013
Établi le
Ausgestellt am

Valid till 15.01.2018
Valable jusqu' au
Gültig bis

Place: Rasnov

Name: HS100

HS = 100 m h/n 0,540 Vo = 24,74 m/s



e = 89,10 m	l ₁ = 9,16 m	Zu = 66,97 m
e _s = 25,90 m	l ₂ = 10,06 m	P = 81,00 m
t = 6,41 m	a = 78,38 m 10° sloping	K = 90,00 m
γ = 35,00 °	β _p = 35,00 °	L = 100,00 m
α = 11,00 °	β = 33,00 °	b ₁ = 2,50 m
r ₁ = 92,04 m	β _L = 31,00 °	b _K = 18,00 m
h = 42,55 m	r _L = 210,00 m	b _U = 20,00 m
n = 78,80 m	r _{2L} = 190,00 m	d = 63,00 m
s = 2,25 m	r ₂ = 95,00 m	q = 36,00 m

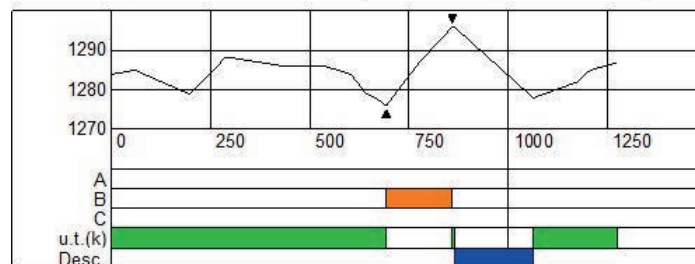
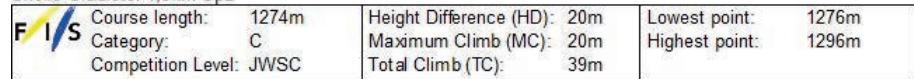
Remarks / Bemerkungen

JUMPING HILL APPROVED BY THE FIS
TREMPLIN HOMOLOGUE PAR LA FIS
DURCH DIE FIS GENEHMIGTE SPRUNGSCHANZE

SUB-COMMITTEE FOR JUMPING HILLS

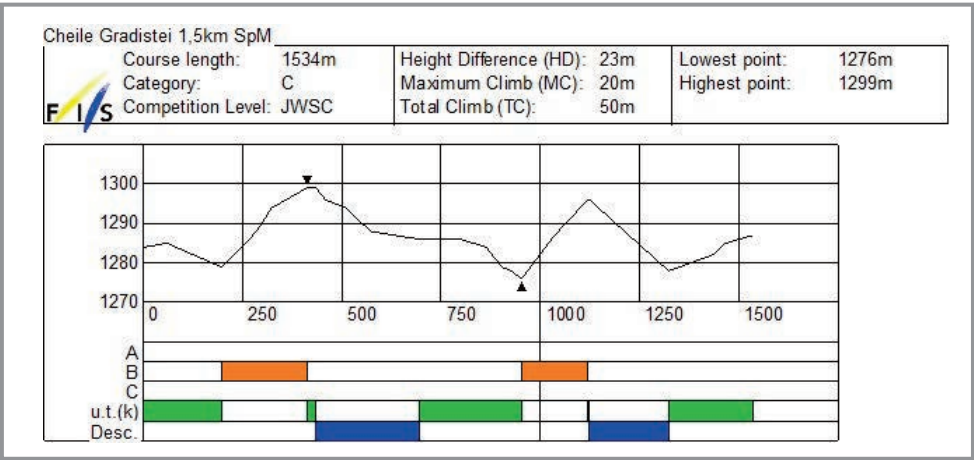
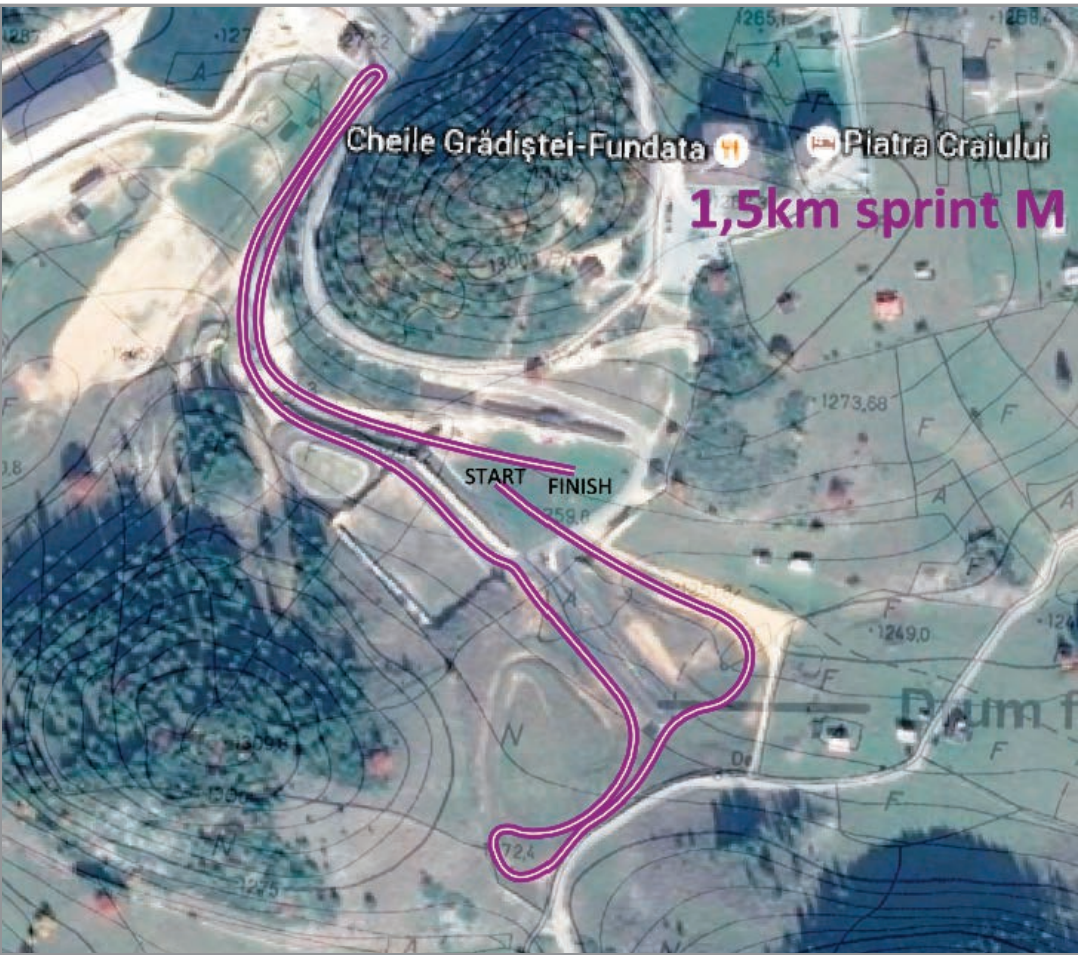
CHAIRMAN:

FÉDÉRATION INTERNATIONALE DE SKI
INTERNATIONAL SKI FEDERATION
INTERNATIONALER SKI VERBAND



Cross-country

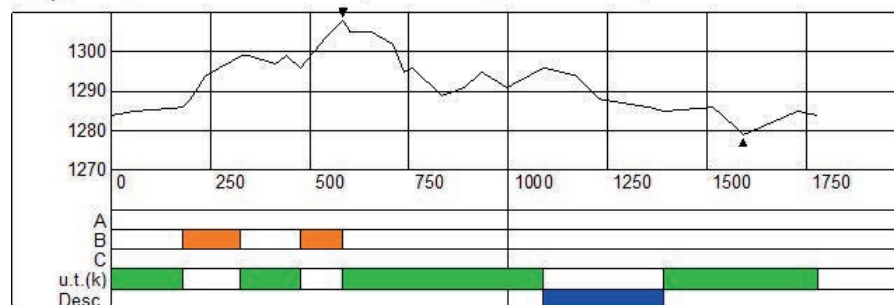
Junior & U23 men: 1x1.5km free-sprint men course





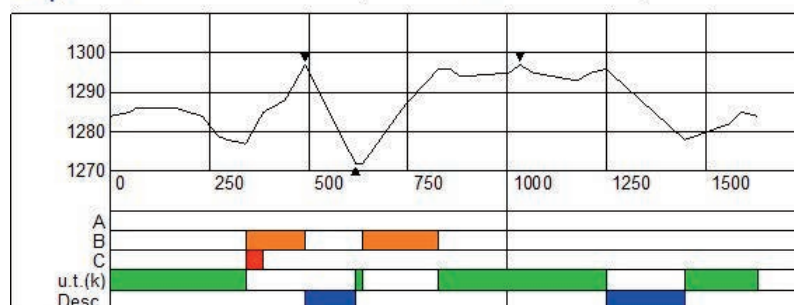
Cheile Grădistei 1,7km RELAY RED

Course length:	1778m	Height Difference (HD):	29m	Lowest point:	1279m
Category:	C	Maximum Climb (MC):	13m	Highest point:	1308m
Competition Level:	JWSC	Total Climb (TC):	48m		



Cheile Grădistei 1,7km RELAY BLUE

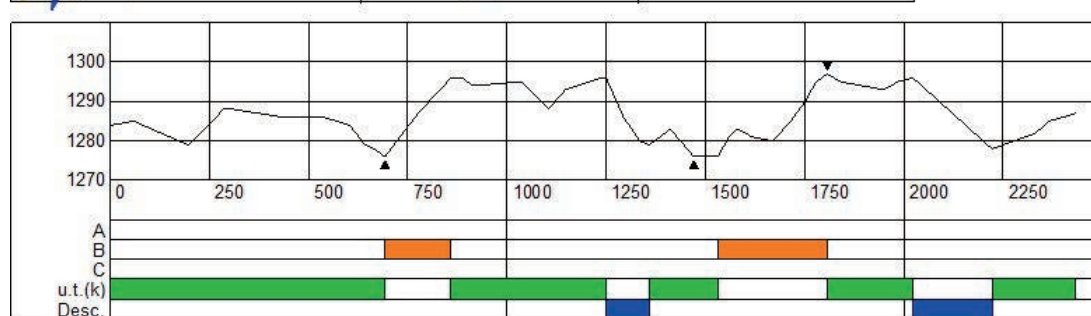
Course length:	1630m	Height Difference (HD):	25m	Lowest point:	1272m
Category:	C	Maximum Climb (MC):	24m	Highest point:	1297m
Competition Level:	JWSC	Total Climb (TC):	59m		





Cheile Grădiștei 2,5km B (FIS)

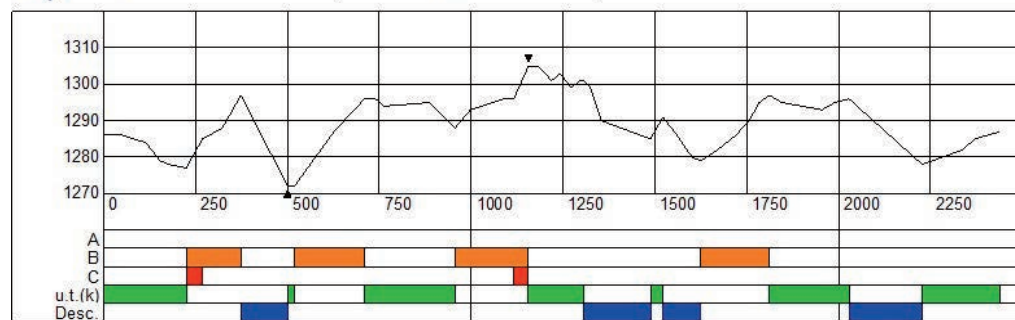
Course length:	2443m	Height Difference (HD):	21m	Lowest point:	1276m
Category:	C	Maximum Climb (MC):	24m	Highest point:	1297m
Competition Level:	FIS	Total Climb (TC):	79m		





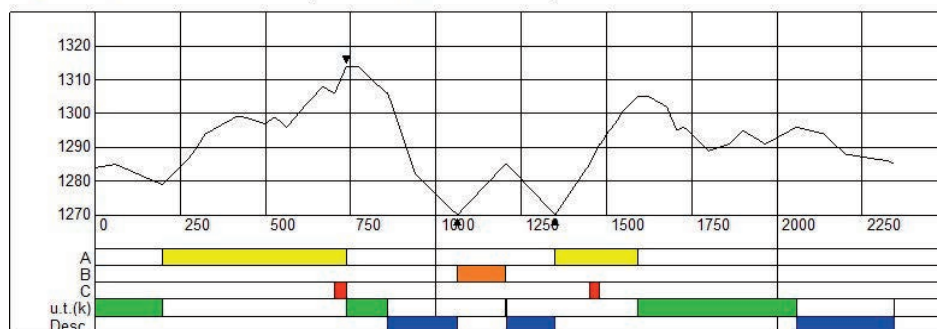
Cheile Grădiștei 2,5km BLUE

Course length: 2438m	Height Difference (HD): 33m	Lowest point: 1272m
Category: C	Maximum Climb (MC): 24m	Highest point: 1305m
Competition Level: JWSC	Total Climb (TC): 102m	



Cheile Grădiștei 2,5km RED (only with blue)

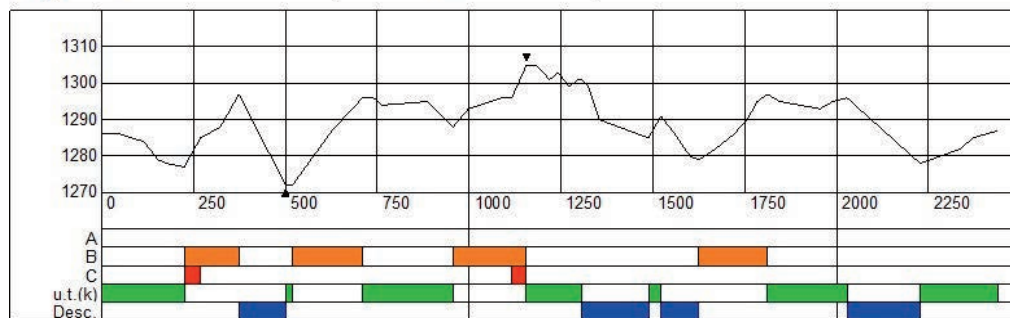
Course length: 2344m	Height Difference (HD): 44m	Lowest point: 1270m
Category: C	Maximum Climb (MC): 42m	Highest point: 1314m
Competition Level: JWSC	Total Climb (TC): 105m	





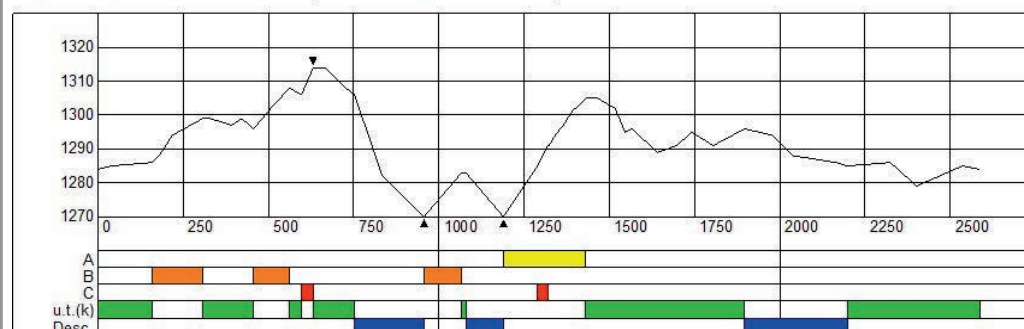
Cheile Grăditei 2,5km BLUE

Course length:	2438m	Height Difference (HD):	33m	Lowest point:	1272m
Category:	C	Maximum Climb (MC):	24m	Highest point:	1305m
Competition Level:	JWSC	Total Climb (TC):	102m		



Cheile Grăditei 2,5km RELAY RED

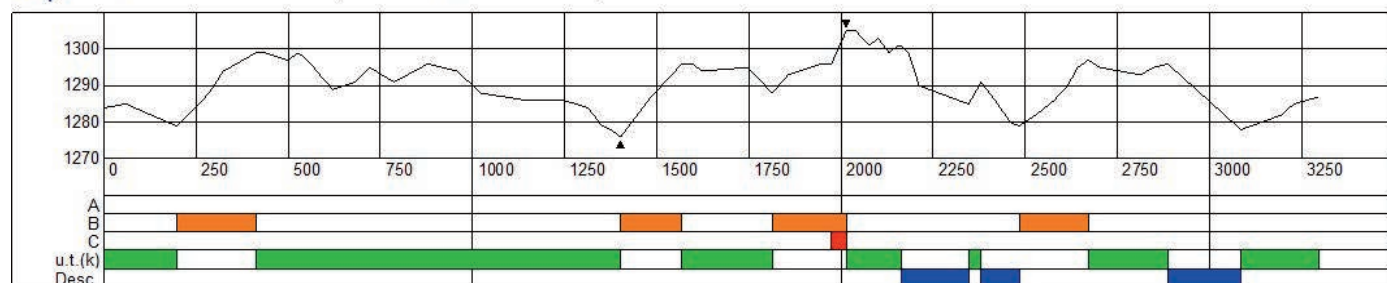
Course length:	2586m	Height Difference (HD):	44m	Lowest point:	1270m
Category:	C	Maximum Climb (MC):	35m	Highest point:	1314m
Competition Level:	JWSC	Total Climb (TC):	104m		





Cheile Grădiștei 3,3km A

Course length:	3296m	Height Difference (HD):	29m	Lowest point:	1276m
Category:	C	Maximum Climb (MC):	20m	Highest point:	1305m
Competition Level:	FIS	Total Climb (TC):	112m		





Cheile Grădiștei 5km JWSC

	Course length:	4735m	Height Difference (HD):	44m	Lowest point:	1270m
	Category:	C	Maximum Climb (MC):	42m	Highest point:	1314m
	Competition Level:	JWSC	Total Climb (TC):	192m		

