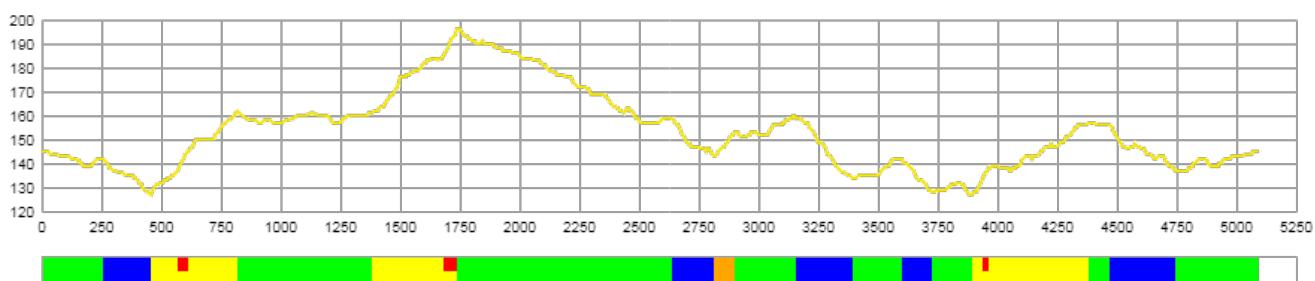




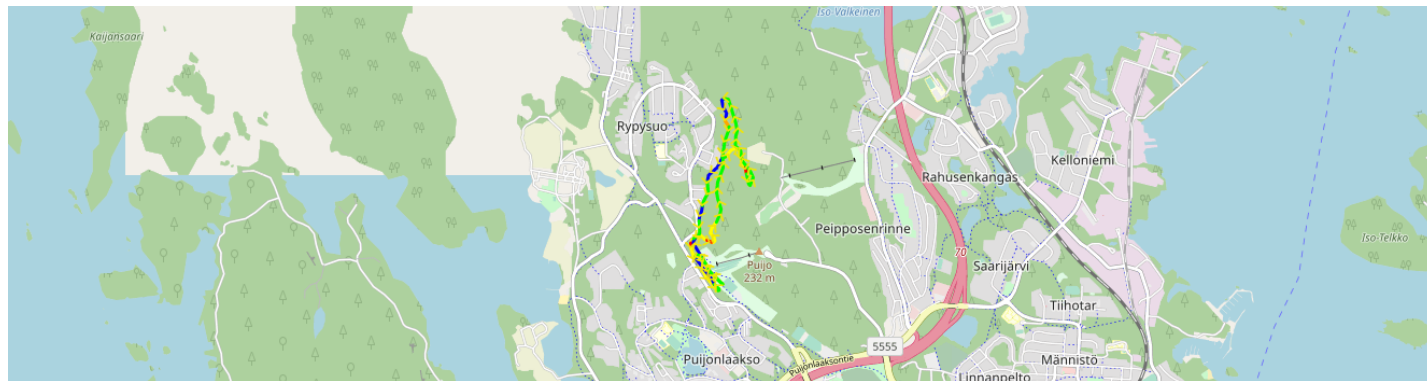
CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number:	
(2) Name of the competition site:	Puijo
(3) Name of city/region:	Kuopio
(4) Organizer:	Puijon Hiihtoseura
(5) National ski association:	Finnish Ski Association
(6) Contact person in the organizing committee:	Timo Reijonen
(7) Homologation inspector:	Juha Torvikoski
(8) Name of course:	Puijo 5 km
(9) Competition level for course	COC

Course length:	5,095m	Height difference (HD):	69m	Lowest point:	127m
Course category:	B	Maximum climb (MC):	36m	Highest point:	196m
		Total climb (TC):	169m		



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



FIS Office

FIS Stamp

FIS Homologation  
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	3	105	62.1
- shorter climbs	1	10	5.9
- steep climbs	3	0	0.0
- descents	5	4	2.4
- undulated terrain	9	50	29.6

(11) Stadium area:

Fixed stadium area	yes	Indoor working room: 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	no		

(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	
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:

Yes

(14) Map Material:

Good

(15) Source of accurate elevation data:

Based on City of Kuopio and National Land Survey of Finland survey

(16) Safety considerations:





The course is safe. Downhills are fast.

(17) General remarks:

(18) Date of first inspection: 2018/12/7

(19) Date of final inspection: 2018/12/9

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb 	1	456	35	35	6.6 - 31.5	9.6	C at 571m, PTC: 8m, 20.0%
	2	1,382	35	36	-12.9 - 32.0	9.8	C at 1,683m, PTC: 11m, 20.0%
	3	3,895	30	34	-19.9 - 27.9	6.2	C at 3,940m, PTC: 4m, 19.0%
	total			105		62.1%	part of TC
B-climb 	1	2,810	10	10	19.9 - 19.9	11.1	
	total			10		5.9%	part of TC
C-climb 	total			0		0.0%	part of TC
undulated terrain 	total			50		29.6%	part of TC
	total climb			169			