



Welcome to the  
WORLD SKI ORIENTEERING  
CHAMPIONSHIPS

PITEÅ, SWEDEN 19-24 MARCH

# 2019

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# Bulletin 3,5

# WMSOC

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## WELCOME BACK!

I am proud to welcome you to Piteå and the Ski Orienteering Championships events!

Last time Sweden organized the World Championships in Ski Orienteering was in 2011, at that time in Tänndalen in Härjedalen. This year we will meet even further north, in the beautiful landscape in Norrbotten and Piteå.

To organize Championships events is the nicest and coolest thing a nation can do but it is also the greatest challenge to

take on. We will do everything we can to offer exciting, visible and fair competitions.

On behalf of the Swedish Orienteering Federation I am pleased to welcome athletes, team leaders, officials, spectators and guests to the World Ski Orienteering Championships, Junior World Ski Orienteering Championships, European Youth Ski Orienteering Championships and World Masters Ski Orienteering Championships!

### Inge Blomberg

President of the Swedish Orienteering



## WELCOME TO PITEÅ!

In the eastern parts of Swedish Lapland, along the 300 kilometre coastline beside the largest brackish water archipelago in the world, you will find the glistening coastal gem, Piteå. Piteå's subarctic climate is affected by the Gulf Stream, giving us warm summers and pronounced contrasts between the seasons here, the winter is for real. Steaming breaths by the light of the campfires and snow creaking beneath your shoes. Here, the winter ice is an adventure arena, the Northern Lights are the lights in the sky and nature itself is the lifeblood of it all.

Piteå focuses on energy and sustainable development and offers good development opportunities for both people and companies. Piteå also has three national

research institutes in different research fields such as composite, renewable energy, creative industry and finding unique solutions for the interface between man and machine.

It is an honour to welcome you to Piteå and the World Championships in Ski Orienteering, which will be held at the Lindbäck stadium our winter sports arena. The arena is a lively place and Piteå locals of all ages hang out here, on the slopes and trails. And they will surely be visiting the arena for the championships!

There is something special about the spirit of the region, that makes it easy to feel welcome in Piteå, I hope that you will feel it too!



### Helena Stenberg Mayor

*A warm welcome to Piteå!  
Here, you can really feel  
at home.*

## DEAR ORIENTEERING FRIENDS AROUND THE WORLD

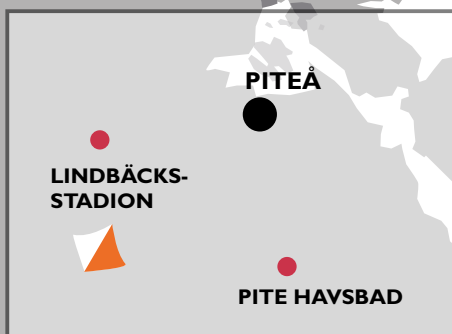
On behalf of the Ski Orienteering Commission I am very pleased to welcome competitors, team leaders, officials, spectators and guests to the 2019 World Ski Orienteering Championships, World Masters Ski Orienteering Championships, World Junior Ski Orienteering Championships and European Youth Ski Orienteering Championships. We all can expect a real festival of Ski Orienteering in Piteå, a memorable and enjoyable

experience. It is always good to be back to Sweden for another high level event. May the sun shine over the forest full of snow!

I would like to thank organisers for their enthusiasm and hard work in preparation of these events and good luck to all of you that are competing in them!



**Tatiana Kalenderoğlu**  
IOF Vice President and SkiO  
Commission Chairperson



## EVENT PROGRAMME



### TUESDAY 19/3

07.00 - 21.00 Event office is open – accreditation Event centre



### WEDNESDAY 20/3

07.00 - 08.30 Event office is open Event centre

09.00 - 15.00 Event office is open Arena

15.30 - 21.00 Event office is open Event centre

09.00 - 13.00 Model Event WMSOC Grisberget

18.00 Opening ceremony Piteå city centre



### THURSDAY 21/3

07.00 - 07.30 Event office is open Event centre

08.00 - 15.30 Event office is open Arena

16.00 - 21.00 Event office is open Event centre

08.30 First start WMSOC - Long Arena

19.00 Prize giving ceremony - Long Event centre



### FRIDAY 22/3

09.00 - 10.00 Event office is open Event centre

10.30 - 13.30 Event office is open Arena

14.00 - 21.00 Event office is open Event centre

11.00 First start WMSOC - Middle 1 Arena



### SATURDAY 23/3

07.00 - 08.00 Event office is open Event centre

08.30 - 14.00 Event office is open Arena

14.30 - 21.00 Event office is open Event centre



### SUNDAY 24/3

07.00 - 08.00 Event office is open Event centre

08.30 - 14.00 Event office is open Arena

14.30 - 18.00 Event office is open Event centre

09.00 First start WMSOC - Middle 2 Arena

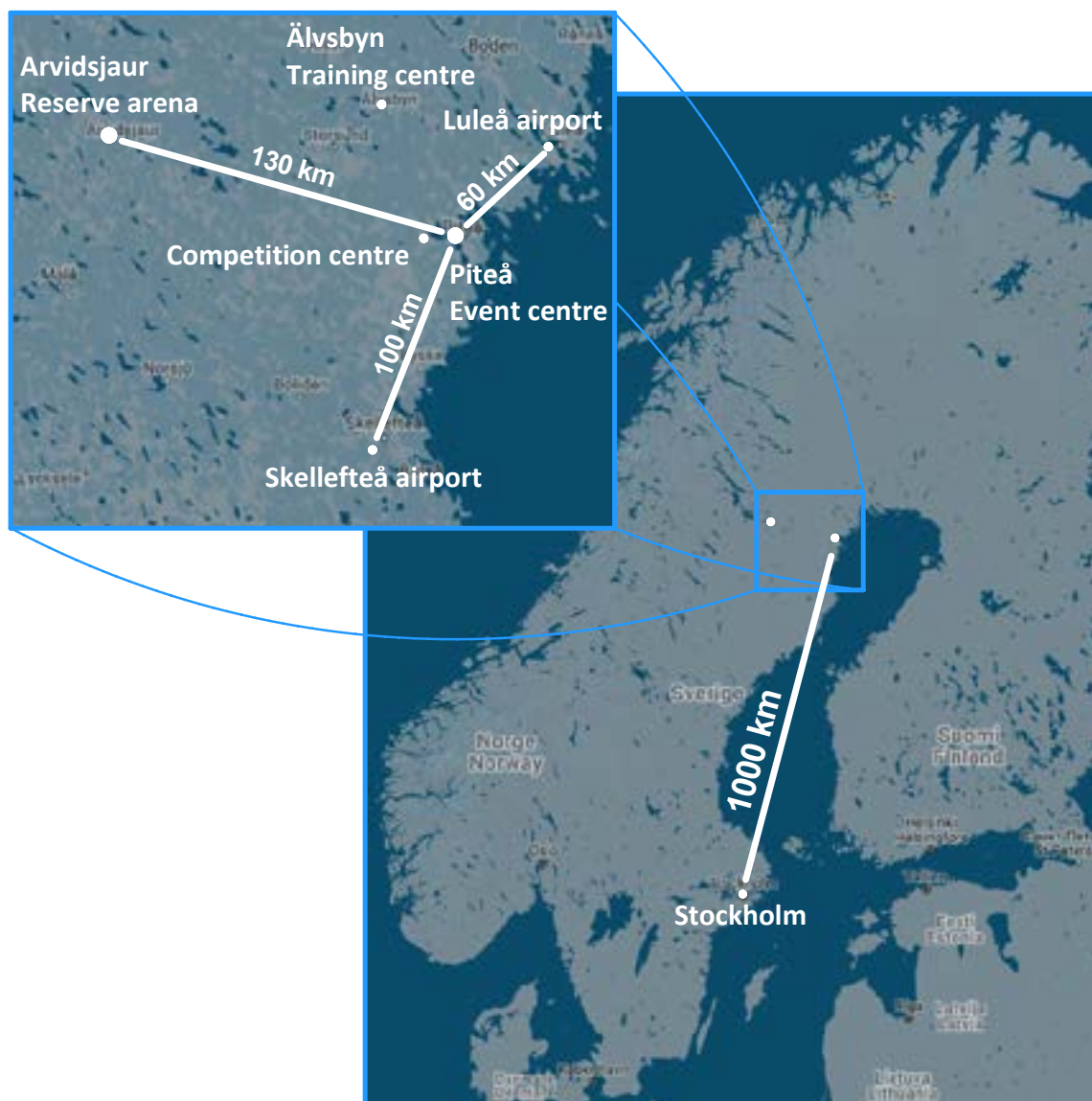
~12.00 (When results are ready)  
Prize giving ceremony - Middle Arena

15.30 Closing ceremony Arena

18.00 Banquet Event centre

## OVERVIEW MAPS

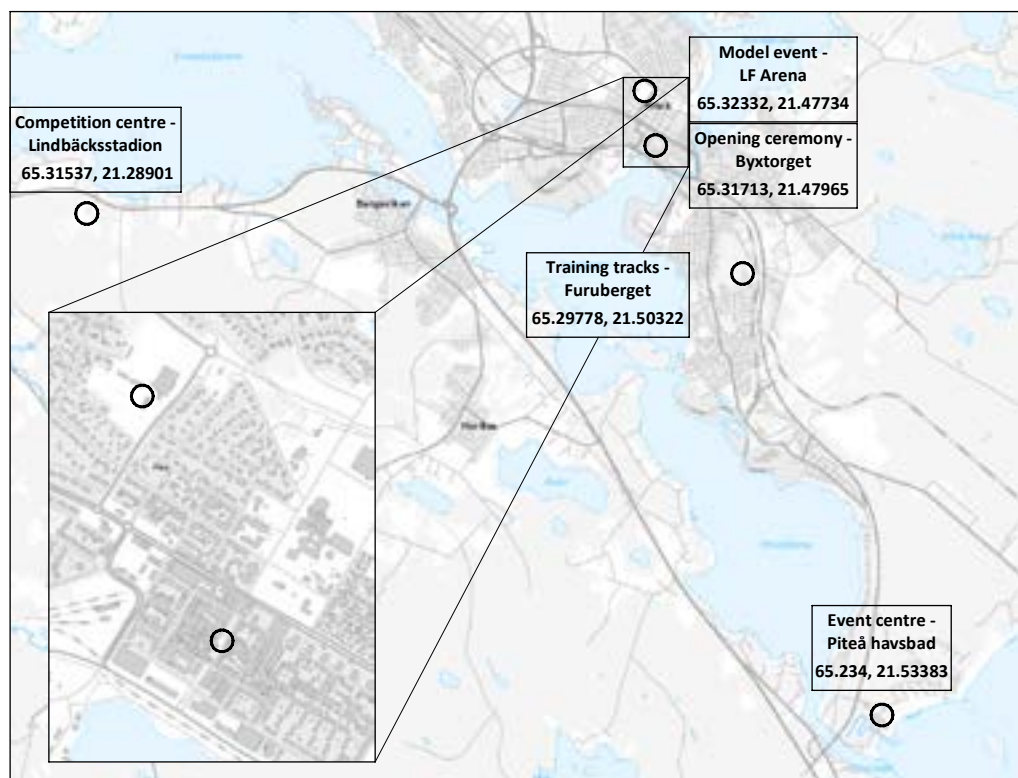
### AREA OVERVIEW







## OVERVIEW – MAIN FACILITIES



Event centre - Piteå havsbad - **GPS coordinates** [65.234, 21.53383](#)

Competition centre – Lindbäcksstadion

Lindbäcksstadion is the competition centre for all distances in WSOC/JWSOC/EYSOC and WMSOC. **GPS coordinates** [65.31537, 21.28901](#)

Model event arena and training tracks

**GPS coordinates** [65.32332, 21.47734](#)

Training tracks – Piteå Furuberget

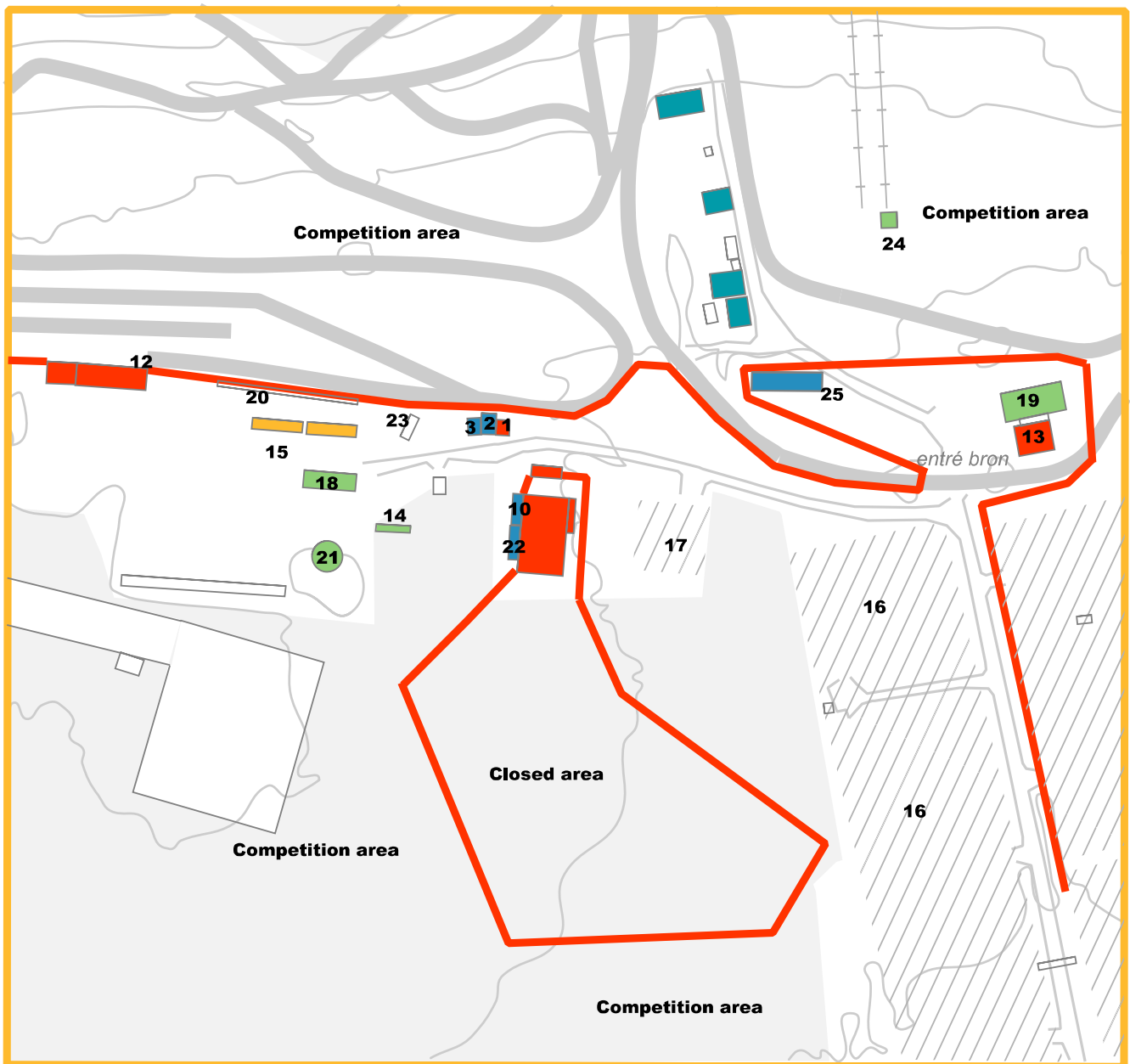
**GPS coordinates** [65.29778, 21.50322](#)

Opening ceremony - Piteå City centre

**GPS coordinates** [65.31713, 21.47965](#)

## ARENA LAYOUT

- |                       |                       |                          |
|-----------------------|-----------------------|--------------------------|
| 1. Information centre | 14. Toilets           | 21. Volunteers           |
| 2. Medicare           | 15. Spectators        | 22. Snowmobiles          |
| 3. Press              | 16. Parking           | 23. Big screen           |
| 3. VIP                | 17. Parking officials | 24. Ski lift             |
| 10. Rescue snowmobile | 18. Cafe              | 25. Public open building |
| 12. Finish            | 19. Restaurant        |                          |
| 13. Showers           | 20. Flagpoles         |                          |



## ENTRIES AND START LISTS

### SUMMARY OF ENTRIES

Class	Long	Middle	Class	Long	Middle	Nation	#
W35	7	7	M35	9	9	Austria	5
W40	7	7	M40	18	20	Australia	1
W45	12	12	M45	27	27	Belarus	1
W50	15	15	M50	31	31	Bulgaria	2
W55	10	11	M55	28	31	Czech Republic	3
W60	10	11	M60	24	24	Estonia	3
W65	7	7	M65	24	25	Finland	104
W70	7	7	M70	23	23	France	1
W75	1	1	M75	8	9	Germany	9
W80			M80	9	9	Great Britian	1
			M90	1	1	Italy	2
<b>W tot</b>	<b>76</b>	<b>78</b>	<b>M tot</b>	<b>202</b>	<b>209</b>	Latvia	12
						Lithuania	3
						Norway	8
						Romania	2
						Russia	26
						Sweden	84
						Switzerland	9
						Turkey	1
						United states	10
						<b>Total</b>	<b>287</b>

### START LISTS

To allow for late entries and possible minor adjustments of the programme no start lists will be published before Friday 15th March.

Updated start lists, including any late entries will be uploaded on Eventor Wednesday 21/3.





## EVENT INFORMATION

### PAYMENT

Entry and entry fee information can be found in "Bulletin 1 & 2". Please note that the price categories given only apply if payments are received by the organisers at the latest by 23:59 on 28th February 2019. Payment for entries made from 1st March 2019 may be made at the event secretariat, cash in Euro (€). Entries are not valid until full payment is received.

Please note that all bank fees are to be paid by the person making the payment.

Account holder: ÄIF orienteringsklubb

Address: Kompanivägen 33, 97444 Luleå

IBAN: SE86 8000 0826 4406 3156 6056

BIC/SWIFT: SWEDSESS

Bank: SWEDBANK

Bank address: Landvägen 40, Sundbyberg, Sweden

Please remember to include details of the person/people who are making the payment and what the payment is for (entry fees, late entry fees, banquet). Please also include a note of the relevant entry registration number(s) from IOF Eventor.

### REGISTRATION

Registration for WMSOC athletes is made in the Competition office at the Event center on Piteå Havsbad. Upon registration you pay any remaining entry or rental fees. Thereafter you receive your personal envelope, including number bibs, map for Model Event, latest version of this bulletin and possible SIAC rental card.

### ACCOMMODATION

Accommodation and the Competition office are located at Pite Havsbad, Piteå. Booking and payment of accommodation and buffet should be made directly to Pite Havsbad, [www.pite-havsbad.se](http://www.pite-havsbad.se) or by telephone +46 70 3032757. Please use the reference code VM2019.

All accommodation options include breakfast and access to cooking facilities in the Service building. The prices indicated are per person, per night including VAT.

Single room - 900 SEK

Share of a double room - 500 SEK

Share of a three-beds room - 400 SEK

Share of a four-beds room - 300 SEK

Dormitory with own sleeping mat and sleeping bag. Includes access to adventure baths / pool - 300 SEK

Caravan / camper van pitch (price per day, including electricity) - 250 SEK

*Camping at the competition centre is forbidden*

## TRANSPORT

Bus will be offered between Pite Havsbad and Piteå city centre according to schedule below. The number of seats are limited. Tickets, including return tickets, are available for free in the competition centre on a first come first served basis

	Pite Havsbad	City centre	Pite Havsbad	# of seats
Wednesday 20th March	17.15	17.45		100
		19.30	20.00	100
Thursday 21st March	17.00	17.30		50
	18.00	18.30		50
		20.00	20.30	50
		21.00	21.30	50
Friday 22nd March	17.00	17.30		50
	18.00	18.30		50
		20.00	20.30	50
		21.00	21.30	50



Photo: SOFT

## FOOD

Food at the event centre

Meals will be available at Pite Havsbad at the following times:

Lunch: 11.00-14.00 - 95 SEK (no pre booking necessary)

Buffet: 17.00-20.00 - 140 SEK (pre booking necessary, see accommodation above)

Food at the competition arena

Lunch will be available for purchase at the Competition centre on race days.

## CEREMONIES AND BANQUET

### Opening ceremony

The opening ceremony will be held at Byxtorget in Piteå on Wednesday 20th March.

The ceremony will be hosted together with Piteå council and the council leader, Helena Stenberg, will speak.

### Prizegiving ceremonies

Prizegiving ceremonies will be held according to the following:

Thursday            At the Event Centre.

Sunday             At Lindbäck ski stadium based on the total combined results for the races on Friday and Sunday. The ceremony will be held as the competitions come to a close.

Medals will be awarded to the first three in each class.

### Closing ceremony

The closing ceremony will be held in the competition arena together with the flower ceremony for WSOC at approximately 15:30 on Sunday.

### Banquet

The banquet takes place in the Event Centre at 18:00 on Sunday.

Competitors should make a booking for the banquet in Eventor. For payment instructions, please refer to the section on Payments in this bulletin.

Non-accredited persons that wish to attend the banquet are advised to make reservation and payment via:

<https://www.simplesignup.se/event/145076-banquet-wsoc-2019>

Sunday evening banquet fees:

	Entry
-31/1	30 Euro
1/2 2019 – 28/2 2019	40 Euro
1/3 2019 – 23/3 2019	50 Euro

## WAXING AND WAXING FACILITIES

Heated waxing facilities are available for booking at the competition arena, see Bulletin 2. These will be available for use from Monday 18th March. An area with wide and narrow tracks has been prepared closeby for testing of skis.

A room for waxing will be available a couple of hundred meters away from the accommodation at Pite Havsbad. It will be signposted from the competition office. Ski waxing is apart from that not allowed indoors at Pite Havsbad.

## COMPETITION INFORMATION

### LATE ENTRIES

Late entries should be made in IOF Eventor, at the latest by midday on 20th March.

<b>WMSOC</b>	<b>Entry<sup>1</sup></b>	<b>Weekend entry<sup>2</sup></b>	<b>Withdrawal of entry<sup>3</sup></b>
1/2 2019 – 28/2 2019	180 €	140 €	40 €
1/3 2019 – 20/3 2019	210 €	170 €	70 €
Punching card:			
Rental fee SIAC	10 €	10 €	

### Entry changes:

Requests for entry changes e.g. change of class, should be sent to:  
[info@wsoc2019.com](mailto:info@wsoc2019.com)

Requests for entry changes will be accepted up until midday on 20th March.  
A fee of 20€ applies for all entry changes.

Late entries made after 15th March will be positioned into vacant slots in the start lists, two in each class, where the latest vacant slot is filled first. A possible third entry after that date in a class will start before the first official start of the competition.

### SIGNPOSTING

The competition center, Lindbäcks ski stadium, will be signposted from Piteå Havsbad. For information about travel distance and locations please refer to the overview maps.

### PARKING

Parking is available at the arena. Please follow the instructions of the parking marshals. The distance from the parking to the competition arena is maximum 400m.  
Parking is free of charge.

### TOILETS AND SHOWERS

Toilets are available at the arena and in the shower building.  
There will be no toilets at the start.  
Changing rooms with showers are available at the arena.

### FOOD AND DRINK

There is a small indoor restaurant at the Competition centre, it serves warm meals with an vegetarian option, hamburgers, coffee and more. Payment with cash or bank card.

A simpler kiosk serving hamburgers, coffee and confectionary is located beside the spectator area by the finish. Cash payment only.

### NUMBER BIBS

Number bibs are in the envelopes to be collected by competitors from the Competition Office upon arrival at the event.

Please bring your own safety pins.

Bibs should be worn at your left leg.

### PUNCHING SYSTEM

WMSOC 2019 will use SportIdent Air+ as punching system. Compatible SI cards, SIAC, have numbers 8 000 000 – 8 999 999. All entries without valid card numbers will be assigned a rental card by the organizer.

Rental cards will be in the envelopes to be collected by competitors from the Competition Office upon arrival at the event.

Please note that all competitors are responsible for checking the battery function of their SIAC card in the arena before going to the start. The battery test will be located close to the beginning of the taped route to the start.

A fee of 100€ will be charged if the card is lost or is not returned.

### BAGGAGE STORAGE

The organisers have not made any specific arrangements for storage of baggage during competition.

### TO THE START

The route to the start is signposted from the arena. It will be marked using orange/white tape.

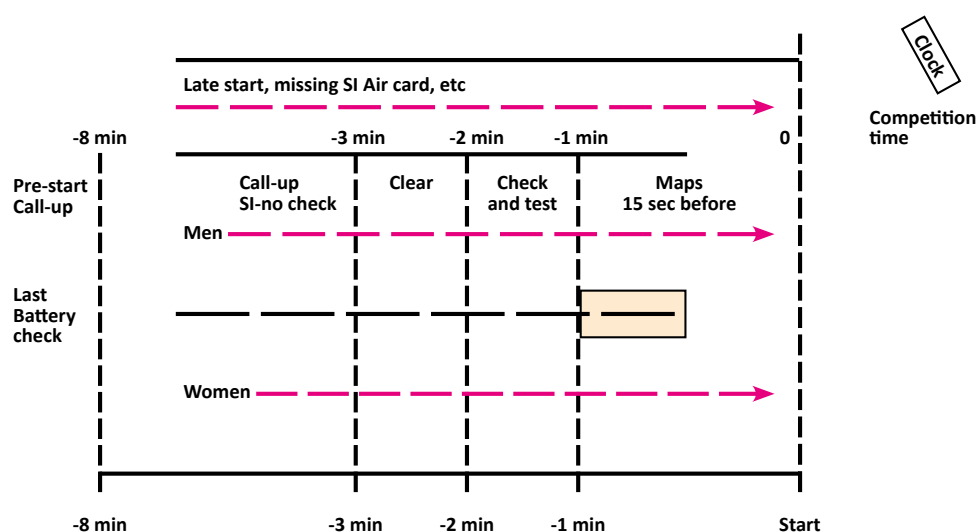
Race	Distance to start	Route status
Long	2000 meter	Wide/narrow track
Middle 1	2100 meter	Wide track
Middle 2	600 meter	Wide track

## CLOTHING TRANSFER

Clothes will be transported from the pre-start to the competition office at the arena after last start of the day.

## START PROCEDURE

A pre-start call-up will be made 8 minutes before the competitor's actual start time. The SIAC card number will be checked at the start followed by clear, check and a test of the touchfree function. The maps will be handed out on the command "maps" at 15 seconds to go. The start procedure is the same for all three competition days. The procedure is illustrated in the sketch below.



## TERRAIN DESCRIPTION

The terrain in the immediate vicinity of Vallsberget/Lindbäcksstadion consists of a number of small hills/tops. The area is between 5 and 120 m above sea level. The terrain is 90% forest, mainly evergreen, with only a limited area of cultivated land and a few roads. Lindbäcksstadion is a modern skiing facility with 25 km of 5-10 m wide ski tracks, an indoor ski tunnel and a small down-hill ski slope. The course will be suitable for each age regarding climb and tracks. Piteå has a subarctic climate between the warm Gulf stream in the west and the continental mass to the east. It experiences relatively long and cold winters.

In March the average temperature is -6°C with cold nights and warmer days.



## TRACK SYSTEM



Very wide track > 3 m. 20 % of the total tracks.  
Very fast, wide ski tracks in ski centres, made with a ski trail groomer or a track leveller.



Wide track 1.5-3.0 m. 5 % of the total tracks.  
A fast, skateable track made by a snowmobile, width usually 2-3 m. Skateable tracks rougher and softer than the wide skateable tracks in the area.



Track 1.1 m. 70 % of the total tracks.  
A good track made by a snowmobile.



Track, slow 0.5-0.8 m. A track made by skis or snowshoes.



Public snowmobile route. A public and marked route for snowmobiles that may be in use during the ski orienteering competition. These routes are often uneven and of varying width and quality



Road covered with snow.



Prepared area  
Slalom slopes and other areas which are wide, skiable and hard.



Forbidden route, can be crossed but not followed.

### REFRESHMENT POINTS

Refreshment points, water, will be available for classes W/M35-45 on the long distance race.

There will be no Refreshment points on either of the middle distance courses.

### MAPS

All maps are A4 size (21 x 30 cm) with a 5-metre contour interval.

The scales are:

<b>Class</b>	<b>Long</b>	<b>Middle1</b>	<b>Middle2</b>
All classes	1:10 000	1:10 000	1:7 500

### COURSE DETAILS

#### L Long

<b>Class</b>	<b>Distance [km]</b>	<b>Shortest sensible route [km]</b>	<b>Total climb [m]</b>	<b># of controls</b>	<b># of refresh- ment points</b>
W35	10,1	14,5	210	15	1
W40	9,3	12,9	170	14	1
W45	8,8	12,6	170	13	1
W50	7,2	10	150	13	
W55	6,5	9,1	120	12	
W60	6	8,8	110	12	
W65	5,5	7,9	100	11	
W70	4,7	6,1	65	9	
W75	4,4	5,6	40	8	
W80	4	5,7	65	8	
W85	3,8	5,4	35	8	
M35	12,9	18,8	245	21	1
M40	11,8	17,2	230	19	1
M45	10,7	15,6	210	17	1
M50	9,3	12,9	170	14	1
M55	8,8	12,6	170	13	1
M60	7,8	11	150	13	
M65	7,2	10	150	13	
M70	6	8,8	110	12	
M75	5,5	7,9	100	11	
M80	4,7	6,1	65	9	
M85	4	5,7	65	8	
M90	3,8	5,4	35	8	

## Middle 1

Class	Distance [km]	Shortest sensible route [km]	Total climb [m]	# of controls
W35	5.6	6.7	50	15
W40	5.5	6.6	50	12
W45	4.9	5.9	45	13
W50	4.5	5.4	35	12
W55	4.2	5.0	35	12
W60	3.8	4.6	35	10
W65	3.3	4.0	25	9
W70	3.3	4.0	25	9
W75	3.3	4.0	25	9
M35	7.3	8.8	70	19
M40	7.0	8.4	70	18
M45	6.4	7.7	60	16
M50	5.6	6.7	50	15
M55	5.5	6.6	50	12
M60	4.9	5.9	45	13
M65	4.5	5.4	35	12
M70	4.2	5.0	35	12
M75	3.8	4.6	35	10
M80	3.3	4.0	25	9
M90	3.3	4.0	25	9



Photo: Soft

## Middle 2

Class	Distance [km]	Shortest sensible route [km]	Total climb [m]	# of controls
W35	4.3	6.0	80	13
W40	4.0	5.6	70	14
W45	3.8	5.4	65	14
W50	3.5	4.9	65	12
W55	3.0	4.3	65	9
W60	2.8	3.9	60	9
W65	2.6	3.7	50	9
W70	2.3	3.4	50	8
W75	2.3	3.4	50	8
M35	6.1	8.6	180	17
M40	5.7	8.1	175	16
M45	5.6	7.8	165	15
M50	4.3	6.0	85	13
M55	4.0	5.6	70	14
M60	3.8	5.4	70	14
M65	3.5	4.9	65	12
M70	3.0	4.3	65	9
M75	2.8	3.9	65	9
M80	2.3	3.4	50	8
M90	2.3	3.4	50	8

## PUNCHING

Punching is touchfree. Each control has two markers with a punching unit on each. Both punching units are active and it is up to the competitor to choose which to use. Competitors should have their SIAC card attached to either their left or right hand or arm. The SIAC card needs to be within 50 cm of the punching unit for it to be registered.

The SIAC card will flash and give an audible "peep" when a punch is registered. The rental cards supplied by the organisers have a 5 second flash. If the SIAC card does not flash or "peep", the competitor should try punching at the other punching unit at the control point.

A control for checking SIAC card battery status will be available in the arena. Example controls will be available at the Model Event.

## **MAXIMUM TIMES**

The maximum time is 3 hours for all courses.

## **FINISH**

Taping and track markings in the snow will show the way from the last control to the finish. There will be no punching at the finish line as the time will be registered automatically via a loop antenna. A photocell is used as a back-up system. After crossing the finish line, you will be directed to download. Competition maps should be handed in at the exit. Rental cards should be handed in after your final race.

## **RESULTS**

Results will be published on IOF Eventor. Results in paper form will also be posted at the event arena.

Final results for the middle distance are calculated from the combined total for the two middle distance races.

## **COMPLAINTS AND PROTESTS**

Complaints should be submitted in writing to the Competition Office at the latest 30 minutes after the last finisher in the class in which you are competing. Complaints can only be submitted by a competitor. The competition director will deal with the complaint and take a decision on the question. The person making the complaint will be informed of the decision. Complaints may be made free of charge.

Should the person making the complaint not be satisfied with the decision a protest may be submitted. Protests should be submitted in writing within 15 minutes of the complainant receiving notice of the original decision. Protests are dealt with by the jury. The fee for a protest is 50€. This fee will be repaid should the jury approve the protest.

## **JURY**

Roland Hellberg	SWE
Ossi Lakkala	FIN
Hansruedi Haeni	SUI



## APPLICABLE RULES AND REGULATIONS

Competition Rules for International Orienteering Federation (IOF)  
Ski Orienteering Events; dated 1/11 2018.

## DEVIATIONS / EXCEPTIONS TO RULES AND REGULATIONS

- A rest day has been included so the overall event is a day longer.
- Official start lists will be published on 15th March while the rules says that they should be published together with this Bulletin.

It is not allowed to participate in more than one championship during the week, with these exceptions:

- Participants from WMSOC and JWSOC may participate in the WSOC relay.
- All participants in the WSOC relay must be registered as WSOC participants no later than 15:00 on 19 March 2019.
- All participants in the WSOC relay must have a valid IOF athlete license.
- WMSOC participants who are registered as WSOC participants must pay the accreditation fee, which includes the banquet.
- Participation in both WMSOC middle 2 and WSOC relay is not allowed.

In the event of an athlete wishing to participate in more than one championship please send an email to **info@wsoc2019.com** about this.

## OTHER INFORMATION

### MODEL EVENT

A Model Event to give all competitors the opportunity to familiarise themselves with the terrain, track quality, control point construction, punching method, start procedure and finish will be arranged on Wednesday 20th March.

<b>Location</b>	LF Arena, Hembygdsvägen 11, is the starting point for the Model Event. Please refer to the overview map. From the LF Arena a 800 meter long connecting track leads to the mapped area.
<b>Parking</b>	Located beside the LF arena, the starting point for the Model Event
<b>Times</b>	The model event will be manned according to programme but the tracks and posts will be available all day.
<b>Instructions</b>	Please take your SIAC card, either your personal one or the rental card allocated to you by the organisers. At the assembly area you will be able to test the SIAC card battery, clear and check before going through the start procedure and setting out on a simpler ski-o course. No time-taking or punching checks will be carried out.



## TRAINING OPPORTUNITIES

In addition to the training opportunities offered in Älvsbyn, as described in Bulletin 2, there is also the opportunity to train on the permanent track system in central Piteå.

- Grisberget, 5km skate track, 65.33398, 21.45023 – This area is also being used for the Model Event.
- Furuberget, 3.5km skate track, 65.29568, 21.50292 – the tracks closest to the event centre.

A suggestion from the organizers is to leave the training tracks and instead follow the snowmobile tracks that head out amongst the islands of the archipelago direct from the event center.

Training at the competition area is forbidden.

## OPEN JUNIOR COURSES

Open courses for juniors up to 16 years old are offered alongside the WM-SOC. Please refer to the Swedish Eventor website for more information.

**<https://eventor.orientering.se/Events/Show/24447>**

## SPORTS EQUIPMENT TRADERS

"Nordmark adventure" and "Keltamäki" will be on site during the week,

Nordenmark adventure – Map boards

Keltamäki

– Waxes, ski poles, skis, gloves etc. In the arena from Wednesday 20th March. Cash payment only.



## **ORGANISATION**

### **COMPETITION OFFICE**

E-mail: **info@wmsoc2019.com**

Telephone: +46 76 - 776 46 78 (only open during the competition week)

Address: Hotellvägen 50, 941 43 Piteå, Sweden

### **ORGANISING FEDERATION AND CLUBS**

The Swedish Orienteering Federation and the District Orienteering Federation of Norrbotten Piteå municipality, together with a consortium consisting of the following orienteering and ski clubs:

Piteå IF OK

Piteå Skidallians

Älvsby IF OK

Arvidsjaur OK

I19 IF

Bodens BK OS

OK Renen

Gammelstads IF

Bergnäsets AIK

### **ORGANISING COMMITTEE**

General Secretary: Anders Bennitz

Event Director: Roland Jansson

Support functions: Fredrik Lundström

### **ADVISERS AND IOF REPRESENTATIVES**

IOF Senior Event Adviser: Lacho Iliev (BUL)

IOF IT Assistant Event Adviser: Håkan Blomgren (SWE)

National Controller: Håkan Holmberg (SWE)

### **MAPPERS**

Sture Norén (Track system and ski-o map)

Leif Eriksson (foot-o map)

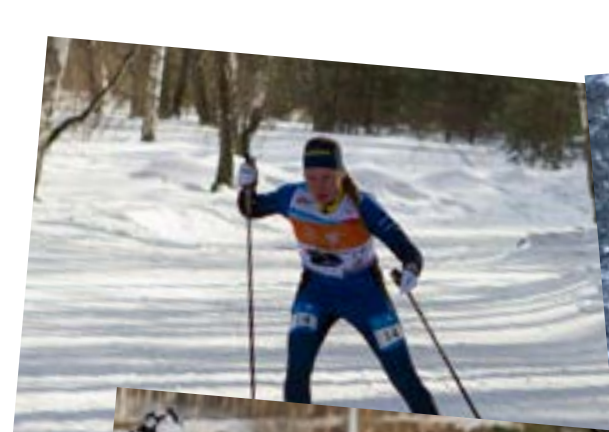
### **COURSE SETTERS**

Co-ordinator – Sture Norén

Long - Leif Eriksson

Middle - Matts Engvall









## Major partners

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Sparbanken  
Nord



## Sponsors

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## Suppliers

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