

# **Orienteering in Sweden**

# Håkan Carlsson

- ✓ 37 years old. Wife and 2 children
   ✓ Lives in Örebro, Sweden
   ✓ Orienteering since 9 years old
- ✓ Since 1999 club leader OK Tisaren
- ✓ 2005 Started orienteering school
- ✓ 2008 National team trainer and development of elite environments
- ✓ 2011 Head Coach Swedish national team
- Organiser of O-Ringen 2 times and Swedish champs once
- ✓ Teacher in sports
- Sports Psychologist (CBT)





#### http://www.youtube.com/watch?v=SX1rQdUI8-M

# Subjects...

- Orienteering in Sweden
- How orienteering clubs work in Sweden
- How we teach orienteering from beginner to elite level
- The work with the national team and the athletes in the team
- Something about my leader philosophy

## Orienteering in Sweden - some facts...

- 75 000 registered orienteers
- 582 clubs
- 23 districts
- 600 competitions
- 400 000 starts

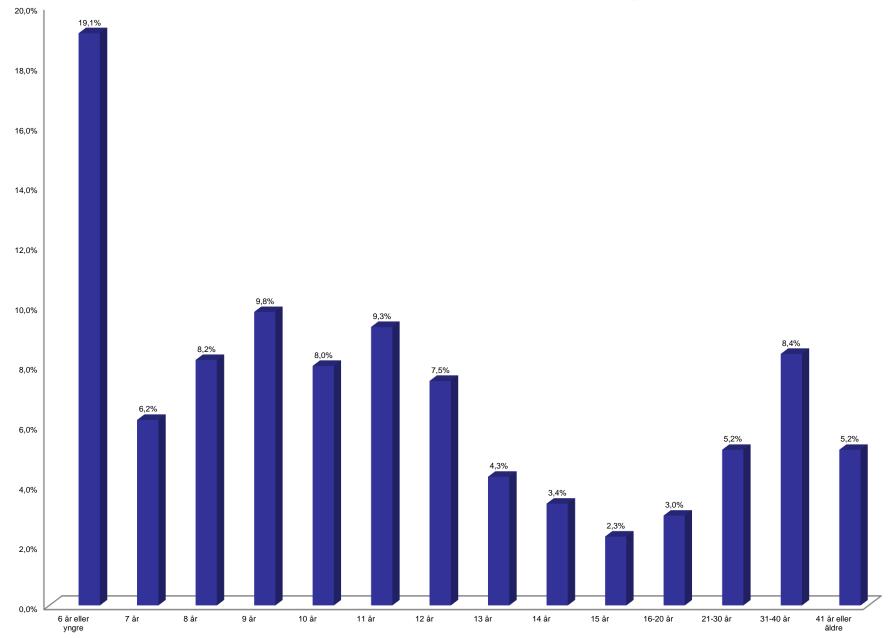


## Our goals

- Best national team in the world
- 1 % of Sweden registered orienteers in 2021
- 300 000 starts in public orienteering events
- Other types of membership
- Development of coaches at all levels



## When people start to do orienteering?



## **O-Ringen – "The worlds greatest orienteering adventure"**





http://www.youtube.com/watch?v= 5LTGb9S1MM

# Some facts about O-Ringen

• Always week 30, new place every year.

- 8 different competitions, the 5 days orienteering is the biggest one. Other events are youth relay, MTB-O, Trail-O, O-Ringen Open, O-Ringen Challange, Training race, 3days.
   Totaly 150 classes
- More than a competition, events, camping for more than 7000 persons etc.
- **110 000 starts** during the O-Ringen week 2014.
- **40 different countieys** attending.
  - Total >75 000 working hours organising





# **Orienteering clubs in Sweden...**

# What are the "keys" to success in an orienteering club in Sweden?

- Basics
- Training
- Focus
- Social
- Coaches

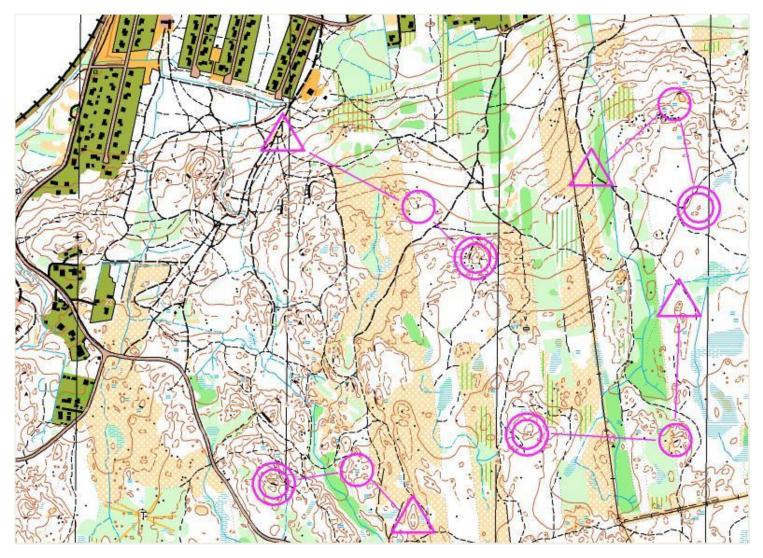


# Basics

- Terrain and maps
- Terrain close to "clubhouse"
- Close to clubhouse for many people
- A lot of kids starting to do orienteering
- Good leaders for every group
- Some people "burning" for orienteering



## Hunt-O



# Training

- Purpose, training, evaluation
- Quality, variation
- Follow each other, learn from the better





# Focus

- Important competitions
- Relays
- Individualization



# Social

- Other activities
- Other projects
- Camps
- "O-Gala"



# Coaches

- Pedagogic
- Flexible
- Humor
- Social
- Listen
- Doers
- Etc...



# Orienteering technique beginners level

SILVI

#### The colors of Orienteering development steps

6.	<ul> <li>Blue/black standard - The highest level</li> <li>Tactical thinking</li> <li>Very hard route choices</li> <li>Controls and legs "in the slope and the hills"</li> </ul>	Elite-classes + all other classes HD 18 – 90
5.	Purple standard – Advanced level step 2 - The same Techniques but longer from obvious map reading points - More and longer legs	HD 16
4.	Orange/Red standard - The important step, the step to become "advanced"       HD 14 + all M-classes         - Understanding all tools of orienteering       Advance planning - to gain flow         - Attack points - safer finding the controls       Extension - safer and faster finding of the controls         - Backwards thinking - route choice       Pacing - as a complement to reading the map that increases security         - Tempo changing - adapting running speed and accuracy in reading the map depending on the difficulty level         - Simplification and structuring - simplify and organize the map picture         - Compass work, fine and rough - adapting the level of accuracy depending on the difficulty level.	
3.	Yellow standard – The last step of the Beginners level	HD 12
	<ul> <li>Runability</li> <li>How to take a compass bearing – "rough orienteering"</li> <li>Easy contour orienteering – top of the hill or in the bottom of the depressio</li> </ul>	<i>All 15 year old students in Sweden</i> n
2.	White standard – Beginners level step 2 - More map symbols - Route choice - Short cuts	HD 10
1.	Green standard – Beginners level - Understanding the map, through colors and symbols - Have the map correctly orientated in relation to reality - Line feature orienteering	



## The problems in orienteering...

- » Choice of terrain
- » Terrains variation and details
- » Controls position, symbols
- » How many different orienteering tasks on each leg

#### Orienteering tasks with map reading

» K 1-17 (K is short for Swedish *map reading*)

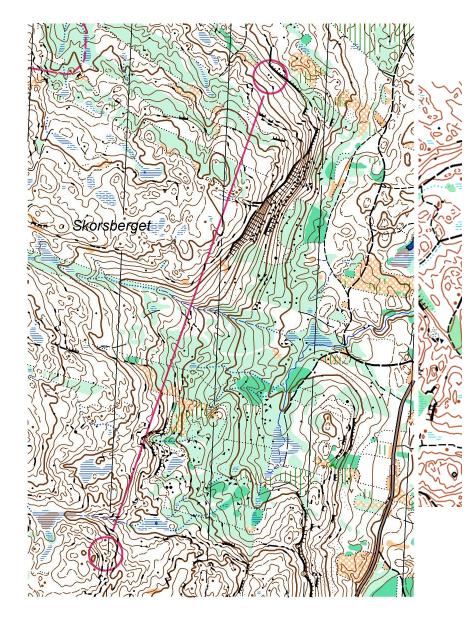
#### Orienteering tasks with route choice

» V 1-4 (V is short for Swedish *route choice*)

## The stair → K 1-17 + V 1-4

K is short for Swedish map reading and V is short for Swedish route choice

	<b>K 17</b> Orienteering in areas with very much details		
	K 16 Difficult contour-orienteering		
	V 4 Difficult route choices		
К 15	Controls in areas with very few details		
K 14	Controls without something stopping you		
K 13 Gener	ralization in longer legs of contour-orienteering		
K 12 Conto	our-orienteering, controls at easy contour-objects		
K 11 Longe	er legs of easy forest orienteering		
V 3 Lengt	th, runability and safety		
K 10 Short difficult orienteering, easy control points			
K 9 Easy contour-orienteering			
K 8 Easy forest o	<b>K 8</b> Easy forest orienteering with something stopping you		
<b>K 7</b> Run through the forest with something stopping you			
V 2 Length and runability			
<b>K 6</b> Run through open ar	<b>K 6</b> Run through open areas with something stopping you		
<b>K 5</b> More difficult line ob			
<b>K 4</b> Controls outside line objects			
V 1 Length			
2 Change of line object at the control			



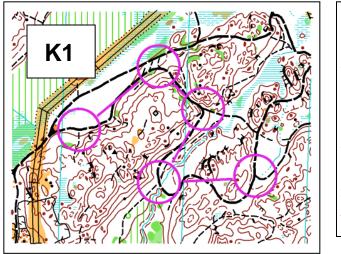
## **Route choice**

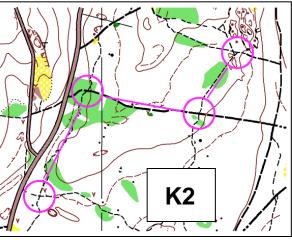
- 1 Length
- 2 Length and runability
- 3 Length, runability and safety
- 4 Every possible aspect

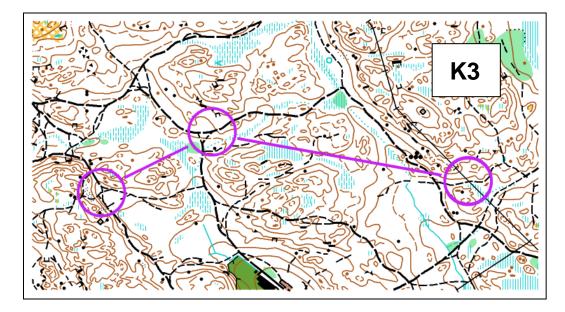
#### **Green level**

#### **Green standard – Beginners level**

- Understanding the map through colors and symbols
- Have the map correctly orientated in relation to reality
- Line feature orienteering







#### **Green level**

<u>K1</u>

- Clear line feature
- Obvious direction
- Orientate the map

<u>K2</u>

- Changing line feature at the control
   <u>K3</u>
- Changing line feature during a leg



#### Understanding the map

- ✓ The map is a small picture from above...
- ✓ "Bird perspective"



## Understanding the map

- $\checkmark$  Build a terrain from a map
- ✓ Treasure hunt
- $\checkmark$  Make your own small maps
- ✓ Models in Lego or Styrofoam

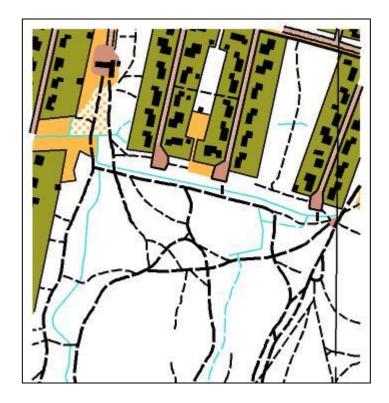


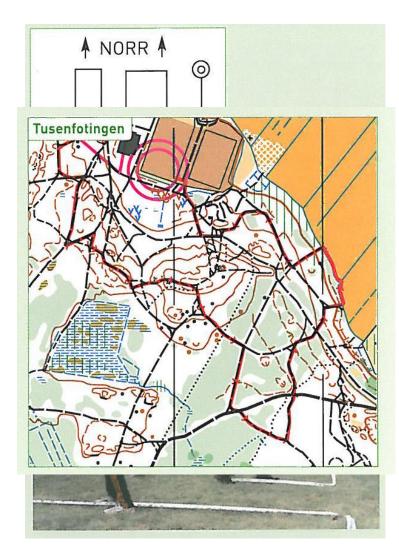
# Understanding symbols on the map



- ✓ "Loops"
- ✓ Relay with symbols
- ✓ Memory
- ✓ Map walking meeting symbols in nature
- ✓ Make the maps more easy, take the contours away ->







## Orientate the map

✓ "Labyrinth, maze"



#### **Green level**

#### Conclusion

 $\checkmark$  The control is placed on a line feature

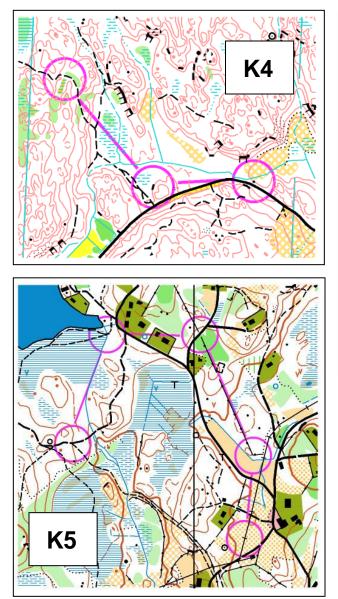
 $\checkmark$  Now you are ready for the classes Acclimatization\* and U1

\* Completed with happy and sad faces, no timing

#### White level

#### White standard – Beginners level step 2 HD 10

- More map symbols
- Route choice
- Shortcuts





## White level

<u>K4</u> - Green standard + The control is placed beside the line feature

<u>K5</u> - Less obvious line feature - Different kind of line feature

- K6 Shortcuts over open areas
- <u>V1</u> Simple route choice - Only length



## White level

 $\checkmark$  Be aware of objects beside the path....

*Warm-up with running at the track where you put out stuff beside the path (teddy bears, numbers, letters etc).* 



## White standard

#### Conclusion

- ✓ Increase of map symbols
- $\checkmark$  Control beside the line feature
- $\checkmark$  Starting to make short cuts
- ✓ Route choice

#### Yellow level

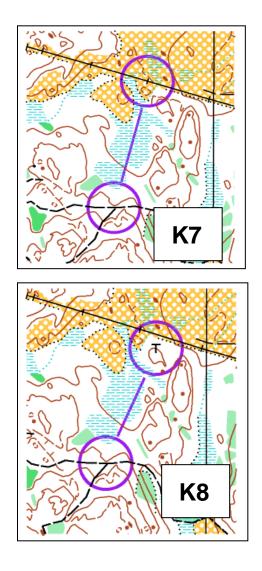
#### Yellow standard – The last step of the Beginners level

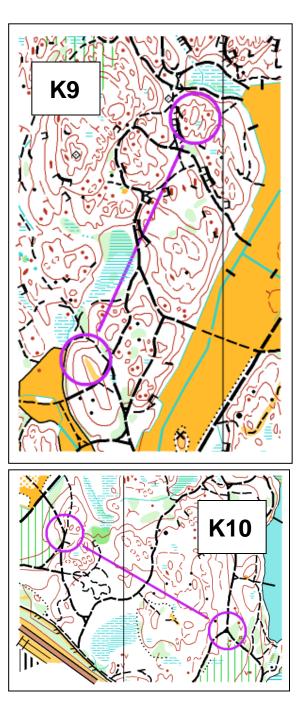
All 15 year old students in Sweden

HD 12

- Runability
- How to take a compass bearing "rough orienteering"

- Easy contour orienteering – top of the hill or in the bottom of the depression





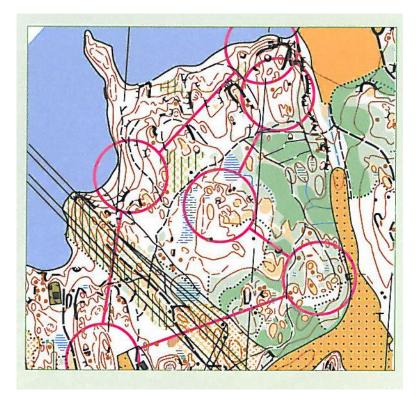
## Yellow standard

<u>K7-8</u> - More about short cuts and cutting across but still with safe catching features

<u>K9</u> - Understanding hills/depressions, when is it up and when is it down? Where is the highest point?

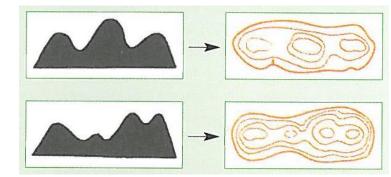
K10 - Simple contour orienteering

 $\underline{V2}$  - Length and runability



## **Contours**

- ✓ Map walk!
- ✓ Visit different contour-objects
- $\checkmark$  Check out up and down in the forest?
- ✓ Follow a contour line





## Yellow level

#### Conclusion

When you handle the yellow level ...

 $\checkmark$  you are good at taking out a compass bearing, following a given direction.

 $\checkmark$  you feel safe when you do shortcuts and cutting across with catching features.

 $\checkmark$  understanding the highest and lowest point in the terrain.

 $\checkmark$  and all the things on green and white level.

## Orienteering technique advanced level

SILVA

## The colors of the advanced steps

6.	<ul> <li>Blue/black standard – The highest level</li> <li>Tactical thinking</li> <li>Very hard route choices</li> <li>Controls and legs "in the slope and the hills"</li> </ul>	Elite-classes + all other classes HD 18 – 90
5.	<ul> <li>Purple standard – Advanced level step 2</li> <li>The same Techniques but longer from obvious map reading points</li> <li>More and longer legs</li> </ul>	HD 16
4.	<ul> <li>Orange/Red standard - The important step, the step to become</li> <li>Understanding all tools of orienteering <ul> <li>Advance planning - to gain flow</li> <li>Attack points - safer finding the controls</li> <li>Extension - safer and faster finding of the controls</li> <li>Backwards thinking - route choice</li> <li>Pacing - as a complement to reading the map that increases s</li> <li>Tempo changing - adapting running speed and accuracy in redepending on the difficulty level</li> <li>Simplification and structuring - simplify and organize the map the difficulty level.</li> </ul> </li> </ul>	HD 14 + all M-classes ecurity ading the map ap picture

## **Orange/red level**

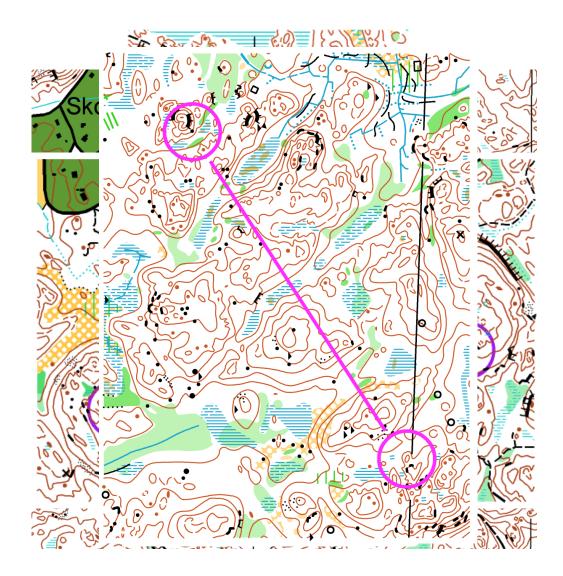
**Orange/Red standard – The important step,** HD 14 + all M-classes **the step to become "advanced"** 

Understanding all tools of orienteering

- Advance planning to gain flow
- **Attack points** safer finding the controls
- Extension safer and faster finding of the controls
- Backwards thinking route choice
- Pacing as a complement to reading the map that increases security
- **Tempo changing** adapting running speed and accuracy in reading the map depending on the difficulty level
- **Simplification and structuring** simplify and organize the map picture
- **Compass work, fine and rough** adapting the level of accuracy depending on the difficulty level.

## The big step from yellow to orange/red

- $\checkmark$  You are leaving line features and moving to contour orienteering.
- $\checkmark$  Important with many O-technique sessions.
- $\checkmark$  Important with many repetitions of the same moment.
- $\checkmark$  Important with qualified coaches.
- ✓ Important with a plan when your lost "Smart missing"

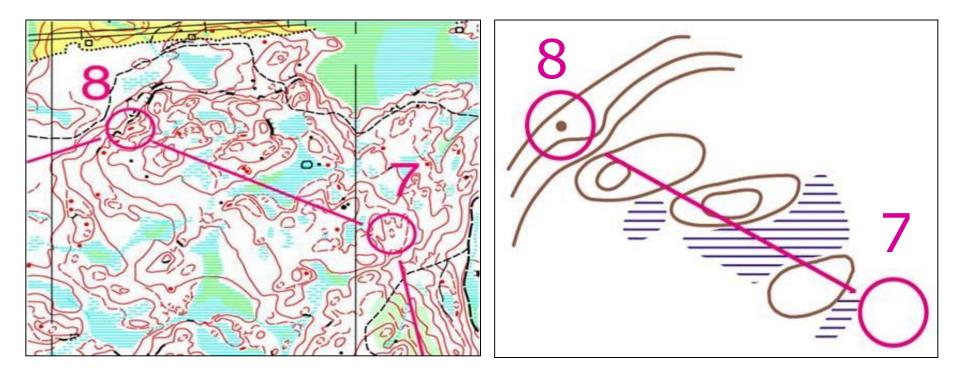


## A orange/red course, can contain four new O-techniques

#### K/GB

» Length, runability and safety. CRough Content of the section of twitch is contous braiders detailed projecting at ures. towards clear catching features.

## **Technique – Simplification and structuring**

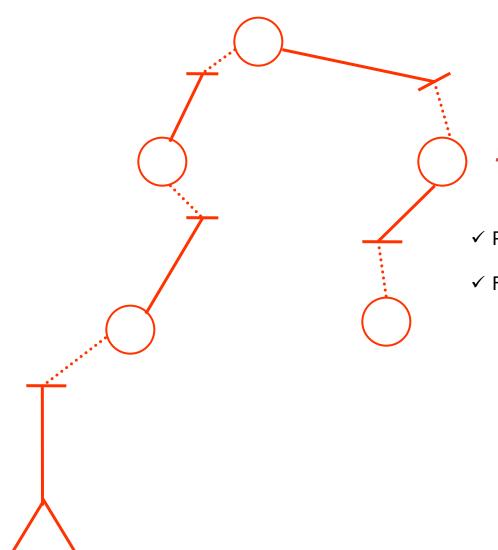


### *Technique – Attack points*

 $\checkmark$  Attack point – is a clear and safe point as close to the control as possible. From this point the runner should be able to attack the control.

 $\checkmark$  Pick an easy point to find, you shouldn't have to search for the attack point then its no use having it.





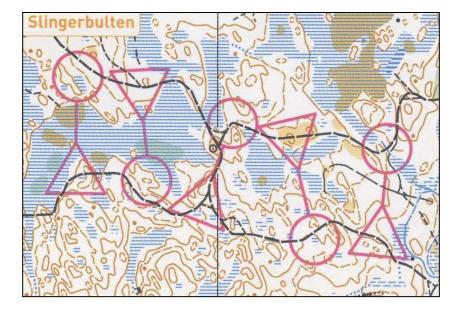
## Technique – Attack point

 $\checkmark$  Rough orienteering towards the attack point.

 $\checkmark$  Fine orienteering to the control.

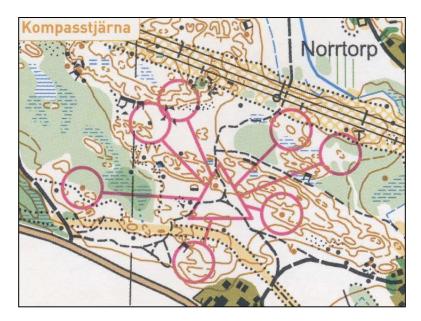
## Technique – Compass work

Short legs between obvious line features with many opportunities to take compass bearings. Tape at the starting points.

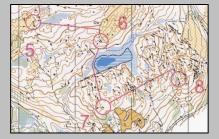


1) Fine compass bearings to the control.

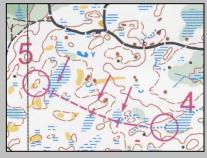
2) Rough compass bearing on the way back.



#### Best way to take the control



#### What to read on?



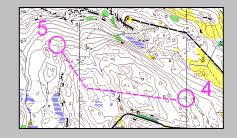
**Compass** 



Strategy with less details



#### Take the control from above



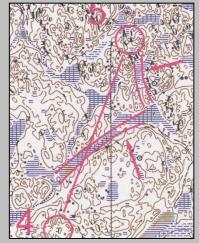
#### Simplify



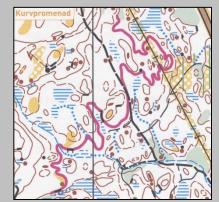
Attack point



#### "Highways"



#### The contours



#### "Miss by purpose"



#### **Route choices**

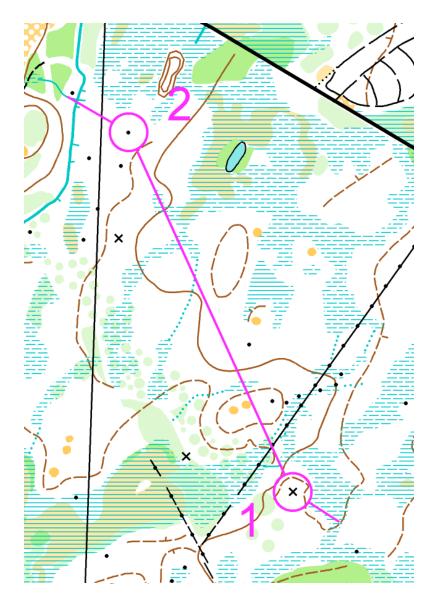
## The colors of the advanced steps

## Purple standard – Advanced level step 2

- The same techniques but longer from obvious map reading points.

HD 16

- More and longer legs



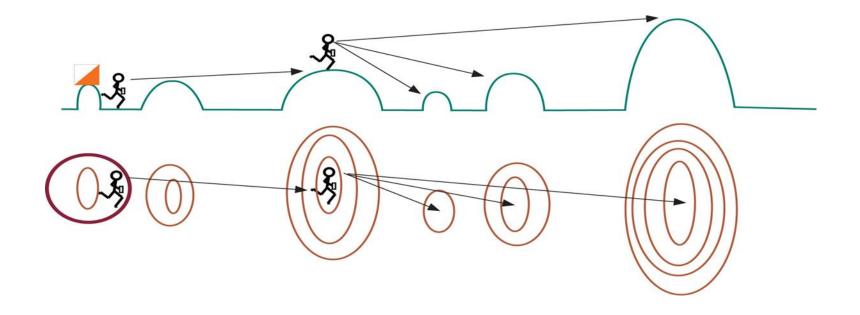
## Purple course – two new orienteering levels

**₭**15

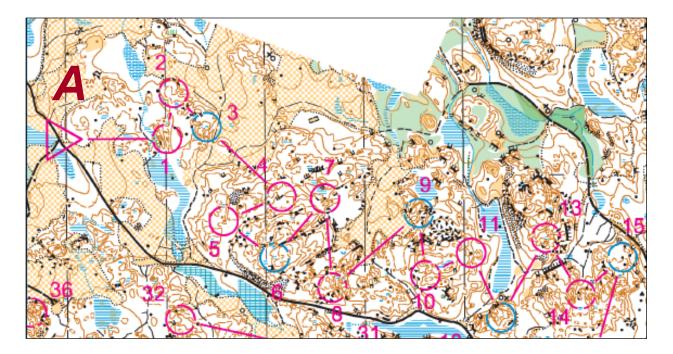
Taking controls witheys obviews catching features.

## The colors of the advanced steps

- Blue/black standard The highest level classes HD 18-90
  - Tactical thinking
  - Very hard route choices
  - Controls and legs "in the slope of the hills"



E-classes + all other



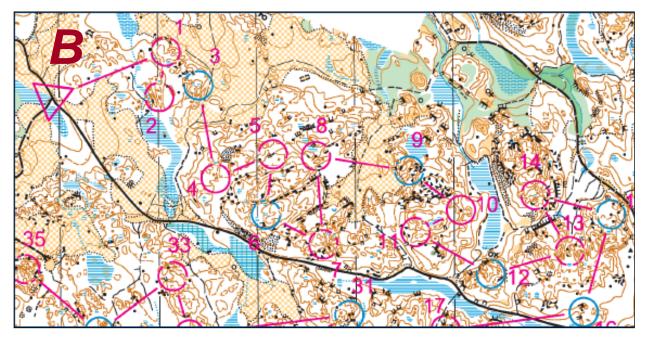
Accurate map reading, transfer map-terrain

> Put out – collect Pair exercise

1 control flag/person

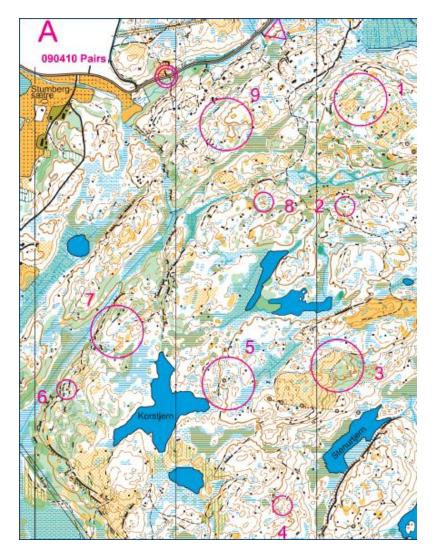
Map A and map B

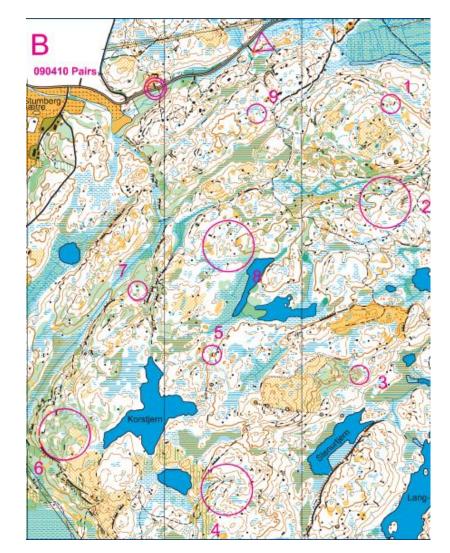
Wait for each other at the control marked with blue circle.



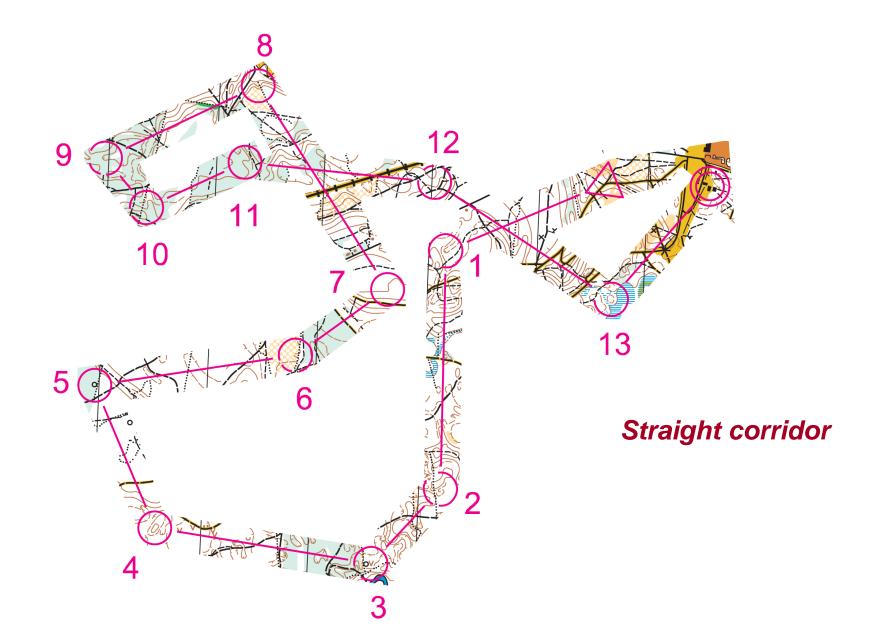
### Accurate map reading, transfer map-terrain – Pair exercise

Runner A starts, leading runner B to the big circle (1). Runner B then lead runner A to the small circle (1) where the control flag is. Change leader. Runner B lead runner A to the big circle (2) and so on...

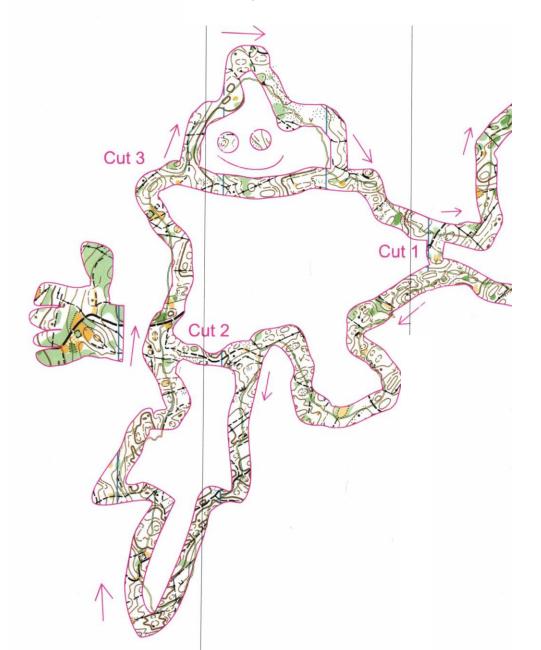




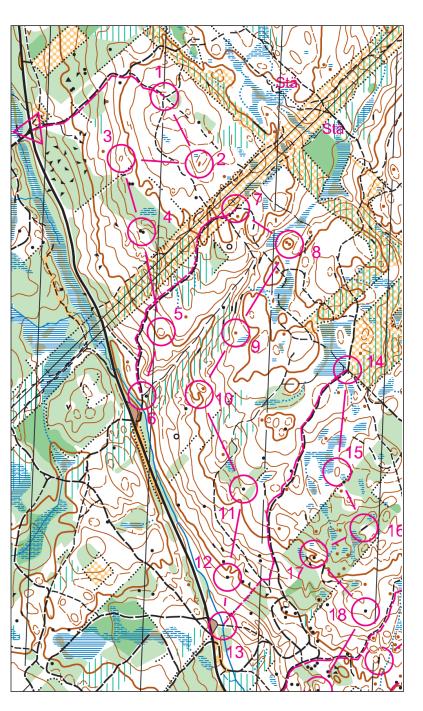
## **Compass bearing, determination of distance**



## **Compass bearing, determination of distance**



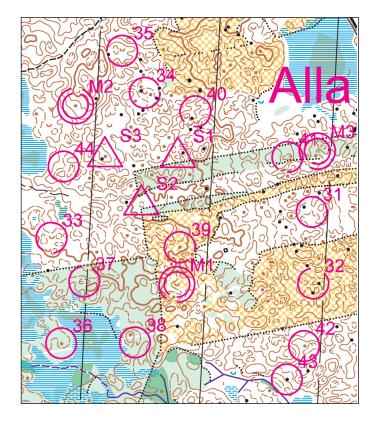
#### **Corridor snake**

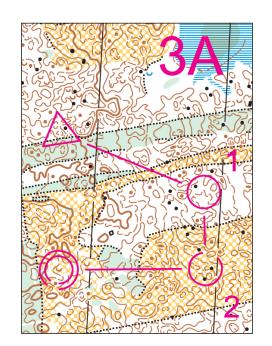


Speed and technique adaptation

Downhill-O

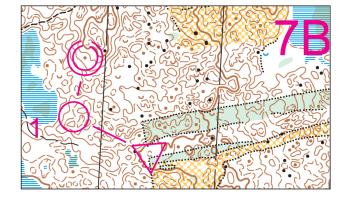
## Speed and technique adaptation

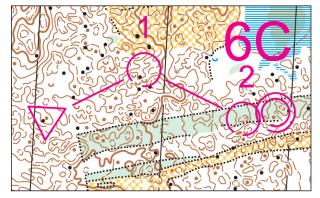


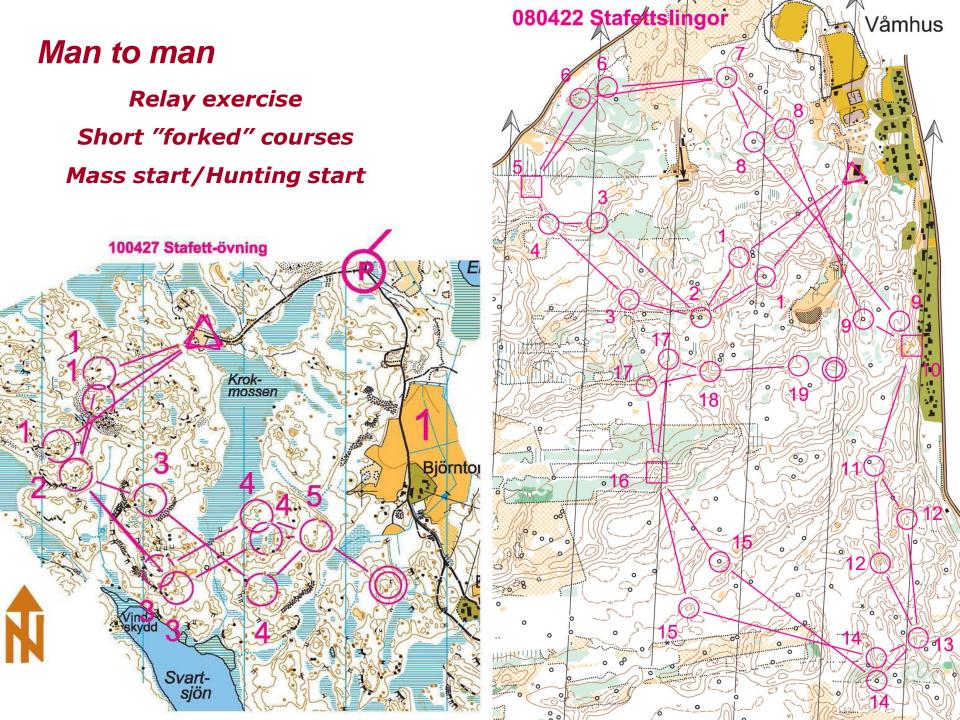


Start loops

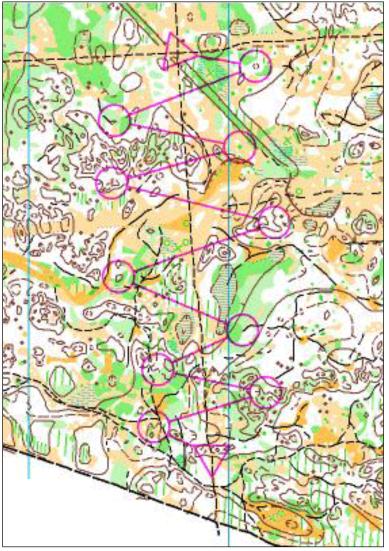
After each finish. Jog back to starting point. (In the middle of the three start triangles).







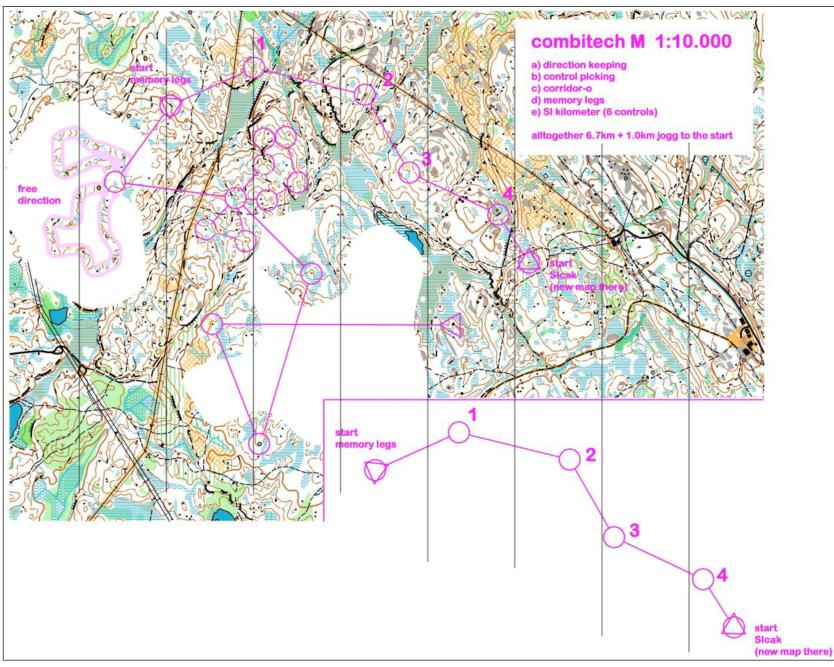
Man to man



*Eternity relay One map for each team Change over on the path* 



## Multi exercise



## **Useful web sites**

http://o-training.net

http://worldofo.com

http://omaps.worldofo.com

## Questions ?

## Best national team in the world, now and in the future...





## 2011 → 2014, 28 WOC-medals









#### Knowledge and Research

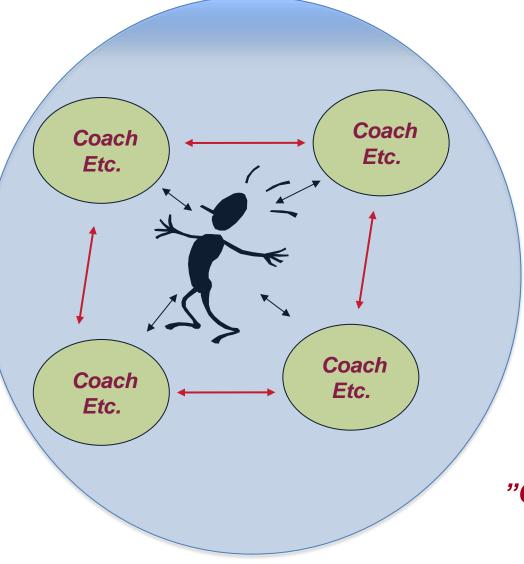
A plan for each individual...

Svenska Orienteringsförbundets Utvecklingsplan för orientering



Eliteclubs (about 50) Gymnasiums (14) Universities (8)

- Coaches education
- Ltterature etc.



"Create your own environment for your development"

## In the team we believe in:

We always do our best

*If someone in the team gets better the team gets better* 

We have an open attitude and work togheter

We can learn a lot from each other

We are willing to try new things

Fair play

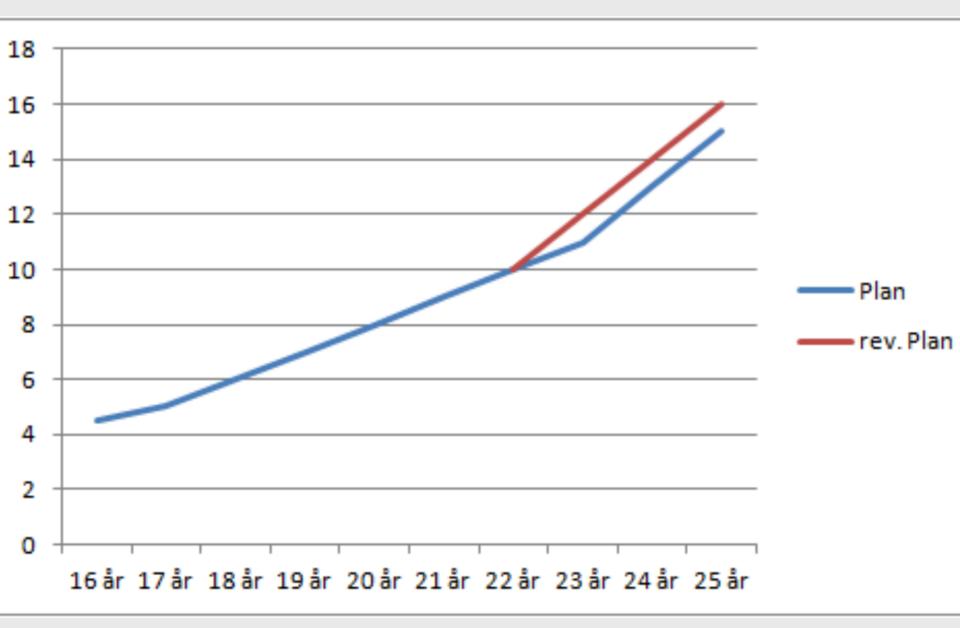


From good orienteer to world class orienteer...?

- "A lot of roads leads to Rome"
- Be healthy and stay away from injury
- Long term plan, hard and structured training
- Flexibility
- Work both on weaknesses and strengths
- Analyse what you can do better
- Take help in the parts you need
- Focus on a small number of things at the time



#### 



# **Questions**?

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