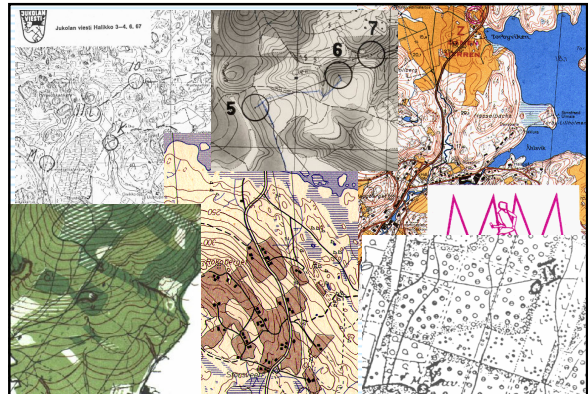


History of orienteering maps



László Zentai: History of orienteering maps

12th International Conference on Orienteering Mapping
21 August 2007, Kiev



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How did it start?



31 October 1897
near Oslo, Norway.
Map of the first
orienteering event.

*There were 4 different maps
available:
it is a 1:30000 scale ski map.*



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Important dates

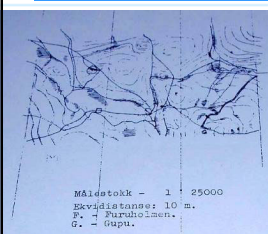
- 1899, Norway: the first ski-o event
- 1922, Sweden: the first night-o event
- 1925, Sweden: the first event for ladies
- 1931, Sweden: the first national championships in orienteering
- 1932, Norway: the first international event
- 1936, the establishment of SOFT
- 1945, the establishment of Finnish and Norwegian Orienteering Federation, the first o-magazine (Suunnistaja)
- 1946, the establishment of NORD
- 1949, Sweden: eleven countries participate on an international conference on rules and mapping standards



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How did it start (maps)?



30 October 1941
Gupumarka, Norway.
The first orienteering map
specially drawn/fieldworked
for an orienteering event.

*It was an illegal night event (under
German occupation).*



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How did it start (maps)?



1948
Norbykollen, Norway.
The first orienteering
map made by using
airphotos.

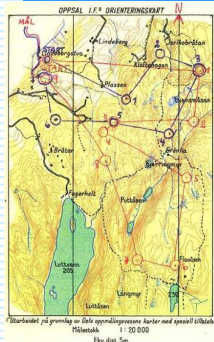
Made by Per Wang.



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How did it start (maps)?



30 April 1950
around Oslo, Norway.
The first colour orienteering
map.

*Experiences of other Scandinavian
countries were used.
Made by Knut Valstad.*



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The year of first o-events in different countries

Norway, 1897.	USA, 1941.
Sweden, 1901.	Bulgaria, 1954.
Denmark, 1906.	Australia, 1955.
Finland, 1923. (ski-o, 1904.)	Brazil, 1955.
Hungary, 1925.	Austria, 1962. (1925.)
Estonia, 1926.	Ukraine, 1963.
Switzerland, 1933.	France, 1965.
Czechoslovakia, 1933.	Canada, 1966.

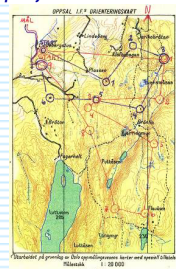


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How did the orienteering start ? (1)

„Scandinavian” style (Norway, Sweden, Finland,
Switzerland, Denmark):
Independent development using topographic maps of the countries.

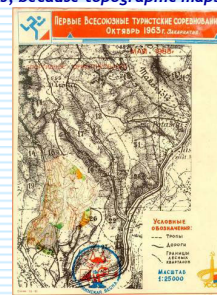
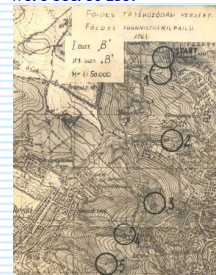


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How did the orienteering start ? (2)

„Eastern European style” (HUN, CZE, BUL, DDR):
Based on tourism, used old tourist maps, because topographic maps
were secret use.

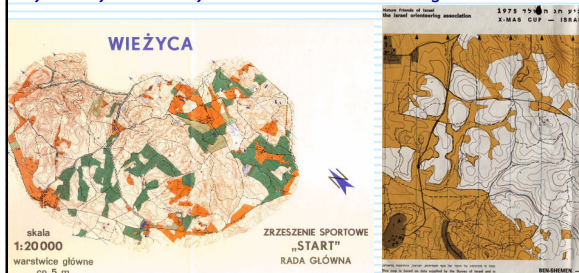


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How did the orienteering start ? (3)

Modern style (AUS, AUT, CAN, FRA, USA etc.)
Based on international (mostly Scandinavian) experiences.
After the foundation of the International Orienteering Federation.



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The main step: the foundation of the International Orienteering Federation (IOF)



1961

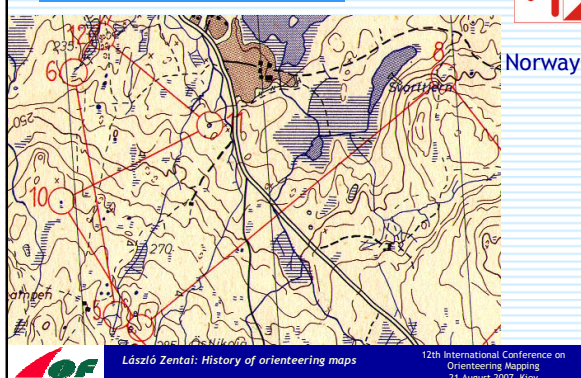
- Bulgaria
- Czechoslovakia
- Denmark
- Finland
- Germany (FRG and GDR)
- Hungary
- Norway
- Sweden
- Switzerland



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European Championships (1962)



Norway

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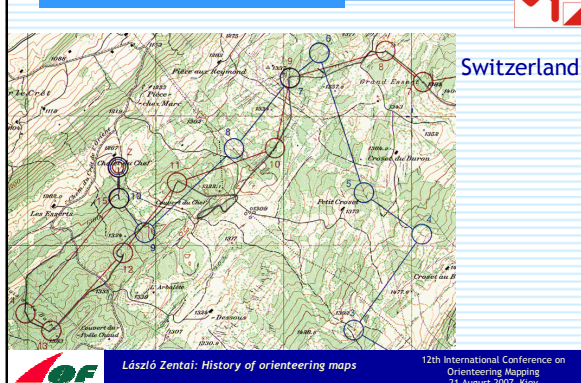
Pre-ISOM, European Championship, Norway, 1962



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European Championships (1964)

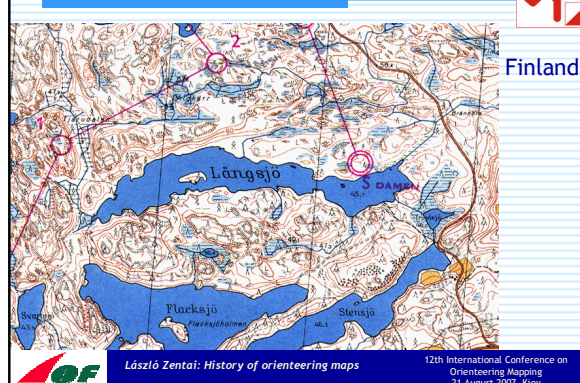


Switzerland

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World Championships (1966)

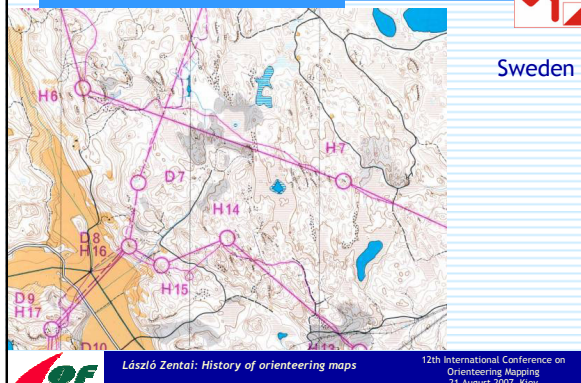


Finland

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World Championships (1968)



Sweden

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Forming the Map Committee of the IOF

1961 - MC of the Norwegian Federation

1964 - MC of the Swiss Federation

1965 - IOF MC

Members:

- Jan Martin Larsen - Norway
- Christer Palm - Sweden
- Ernst Spiess - Switzerland

1967 - First meeting of IOF MC (Zürich)

Participants:

- Jan Martin Larsen - Norway
- Torkli Laursen - Denmark
- Osmo Niemelä - Finland
- Christer Palm - Sweden
- Ernst Spiess - Switzerland



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Background of the first ISOM

Decisions of the 1967 meeting (for World Championships):

- The orienteering maps must show the actual situation.
- They must show all visible features that are easily identifiable and useful for the competitors.
- It is very important to show all details, that effect the route choice.
- The legibility is most important: leave out all unnecessary features.
- The maps of the international events have to use the same legend in all countries.

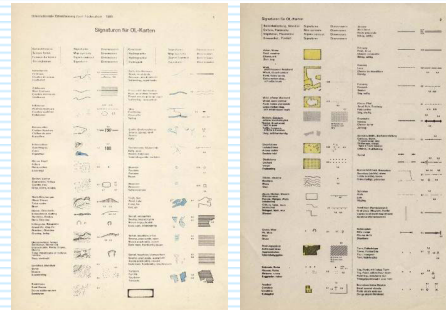


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ISOM 1969

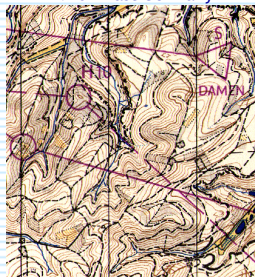
Languages: German, English, French, Swedish



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1970 - East Germany



1:25000 scale last time
Grey used for bush

1972 - Czechoslovakia



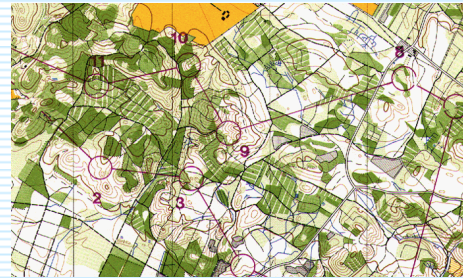
The first use of 3 greens
Grey used for sandstone cliffs



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1974 - Denmark



No evident deviations: according to the future standard
ISOM 1975



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ISOM 1975



- Scale: 1:20 000 or 1:15 000,
- green in three shades for the representation of restricted runnability due to vegetation,
- yellow screen or diagonal stripes for semi-open terrain (clearings and felled areas),
- grey for bare rock.

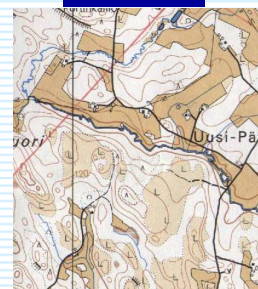


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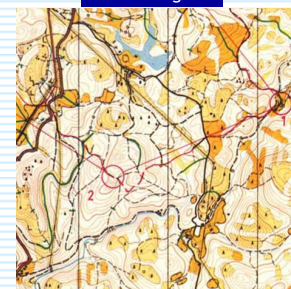
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Ski-o

1975 - Finland



1977 - Bulgaria




First ski-o WOCs, without separate map specification



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1976 - Scotland





1:15000 scale in relay

1978 - Norway



First time: 1:15000 scale in classic






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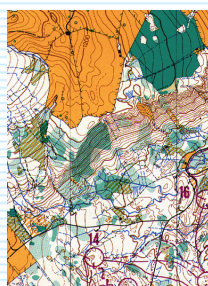
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1979 - Finland





1:20000 scale last time

1981 - Switzerland



According to the standard

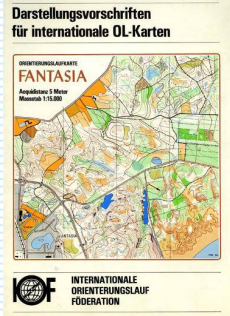





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ISOM 1982



- Scale: 1:15 000 or 1:10 000,
- introduction of yellow screens to extend the possibilities for combining colours and thus better representing vegetation and runnability,
- green stripes to represent restricted runnability with good visibility,
- changed print colours brown, yellow and green.

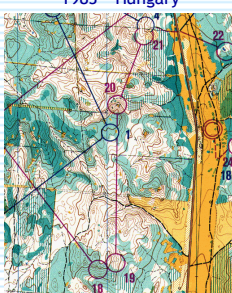




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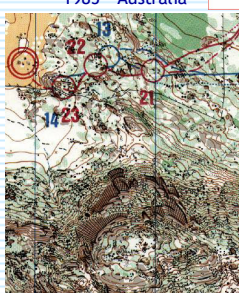
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1983 - Hungary





Introduction of green stripes

1985 - Australia



ISOM fit to extreme terrain






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Ski-o map specification (1984)


- Scales: 1:20000, 1:25000, 1:30000.
- Equidistance: 5 or 10 m.
- 3 types of green tracks: fast, good, slow.
- Symbols of foot-o maps to be used




Drawing specifications for international ski orienteering maps



1984



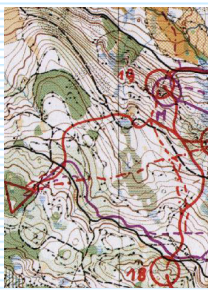
The publisher was the IOF Map Commission with the assistance of the Finnish Federation



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1987 - France





According to the rules

1989 - Sweden



Green stripes in Scandinavia






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ISOM 1990



International Specification for Orienteering Maps

West Fantasia
Scale: 1:10 000
Contours: 5 metres

International Specification for Orienteering Maps
Scale: 1:10 000
Contours: 5 metres

COODIFICATION INTERNATIONALE POUR LES CARTES DE COURSE D'ORIENTATION
West Fantasia
Scale: 1:10 000
Contours: 5 metres

- From a "guideline" to a "rule set" by continuous improvement of colours and symbols on the basis of extensive tests and studies,
- Increased scale from 1:40 000 > 1:25 000 > 1:20 000 > 1:15 000 > 1:10 000,
- extension of the time between revisions from 6 years via 7 and 8 to 10 years.

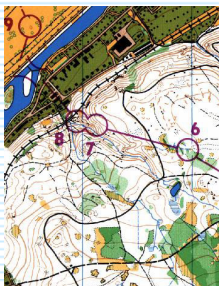

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1991 - Czechoslovakia

1993 - USA

Introduction of short distance event 1:10000 scale in short distance

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Ski-o map specification (1994)

Huttererböden - HINTERSTODER

Maßstab: 1:10.000
Aquidistanz: 5 m
Stand: 1/1998

WOC-Sprint
21.01.1998
All Controls

SKIO WOC 98
SHORT DISTANCE
21.1.1998

Men: 01:50:32-36-39-50-51-58-59-60-61-64-63-65-68-69-70
Women: 21:32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51

Made by the Ski-o Commission with the assistance of the IOF Map Commission

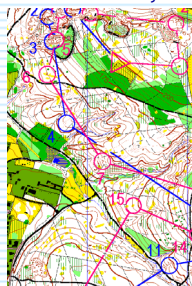
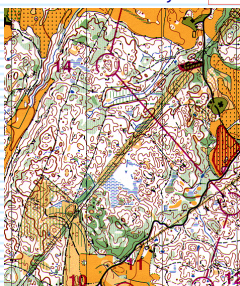
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1995 - Germany

1997 - Norway

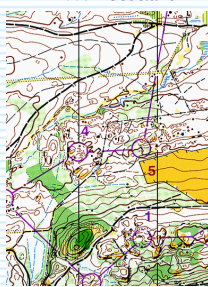
Only 1:15000 scale maps 1:10000 scale in short and relay

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1999 - Scotland



No surprises


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ISOM 2000

International Specification for Orienteering Maps



INTERNATIONAL ORIENTEERING FEDERATION
MAP COMMITTEE
2000

- No big changes,
- existing standards are adjusted for computer mapping,
- consideration of new printing methods,
- inclusion of other forms of orienteering.

IOF INTERNATIONAL ORIENTEERING FEDERATION 1990

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MTBO map specification (2002)

2002 - France

2004 - Australia

The first WOC Demand for separate spec.

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Ski-o map specification (2002)

2005 - Finland

2007 - Russia

Small changes based on ISOM 2000

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Application of ISOM 2000

2001 - Finland

2003 - Switzerland

New discipline: sprint (1:5000) ISSOM

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2004 - Sweden

2005 - Japan

No surprise Sprint in forest

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2006 - Denmark

4 colour printing

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MTBO map specification (2002)

2005 - Slovakia

2007 - Czech R.

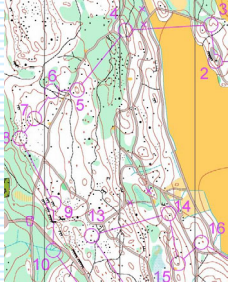
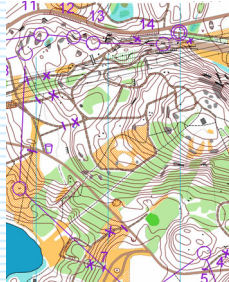
Local symbols Sprint first

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No separate specification: ISSOM


2004 - Sweden

2006 - Finland

First WTOC


Together with WMTBOC



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ISSOM

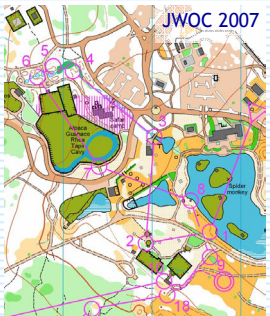


International Specification for Sprint Orienteering Maps (ISSOM)


Valid from 1 January 2007



IOF Map Commission
2006



JWOC 2007



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Thank you for your attention

László Zentai
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<http://lazarus.elte.hu>





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