

smart for cartography



OCAD 9 Preview

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Gian-Reto Schaad, OCAD AG

OCAD 9

- 2 years of development
- Beta test started at 1st April 2005
- Download English version from www.ocad.com and test it!
- More then 100 tools revised or added
- Planned release date of OCAD 9 is in September 2005



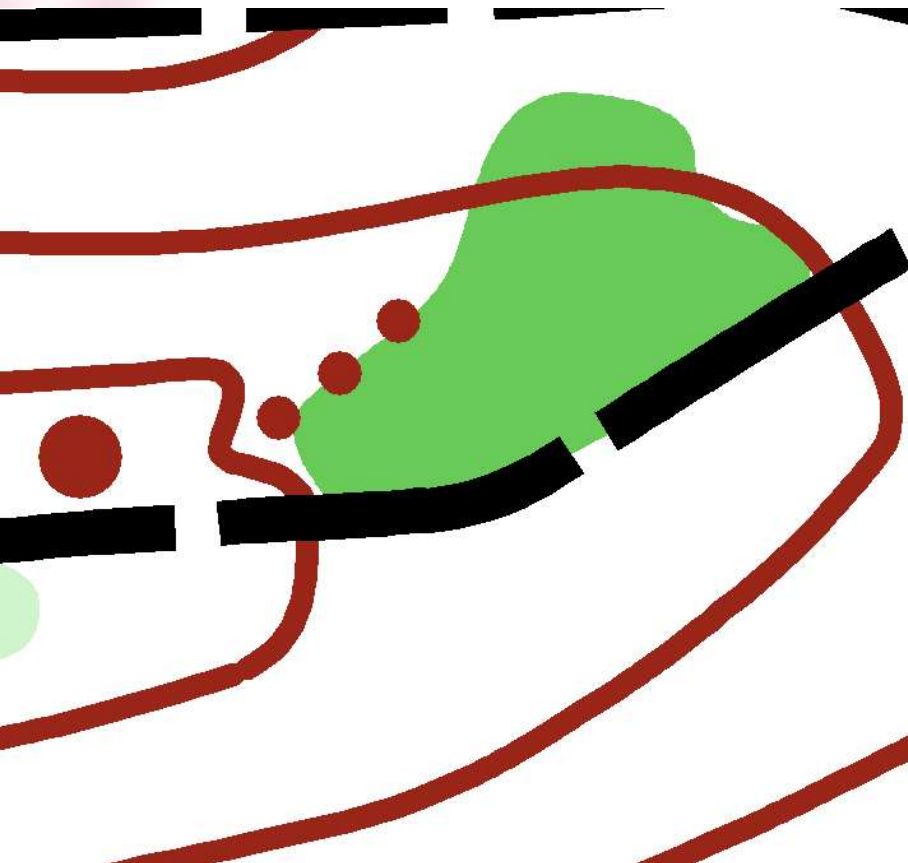
What's New in OCAD 9

- New user interfaces for printing and exporting
- More export formats (PDF, SVG)
- New GPS user interface
- View: Draft mode and Anti-Aliasing
- Improved course setting modul

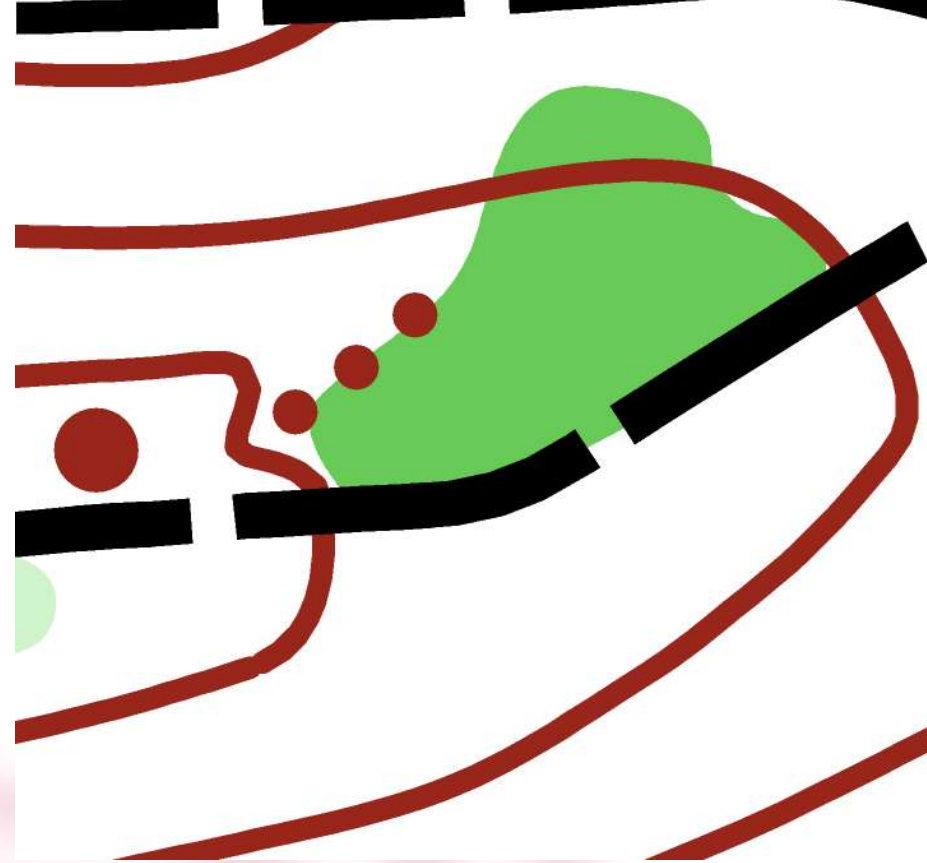


New Viewtyp Anti-Aliasing

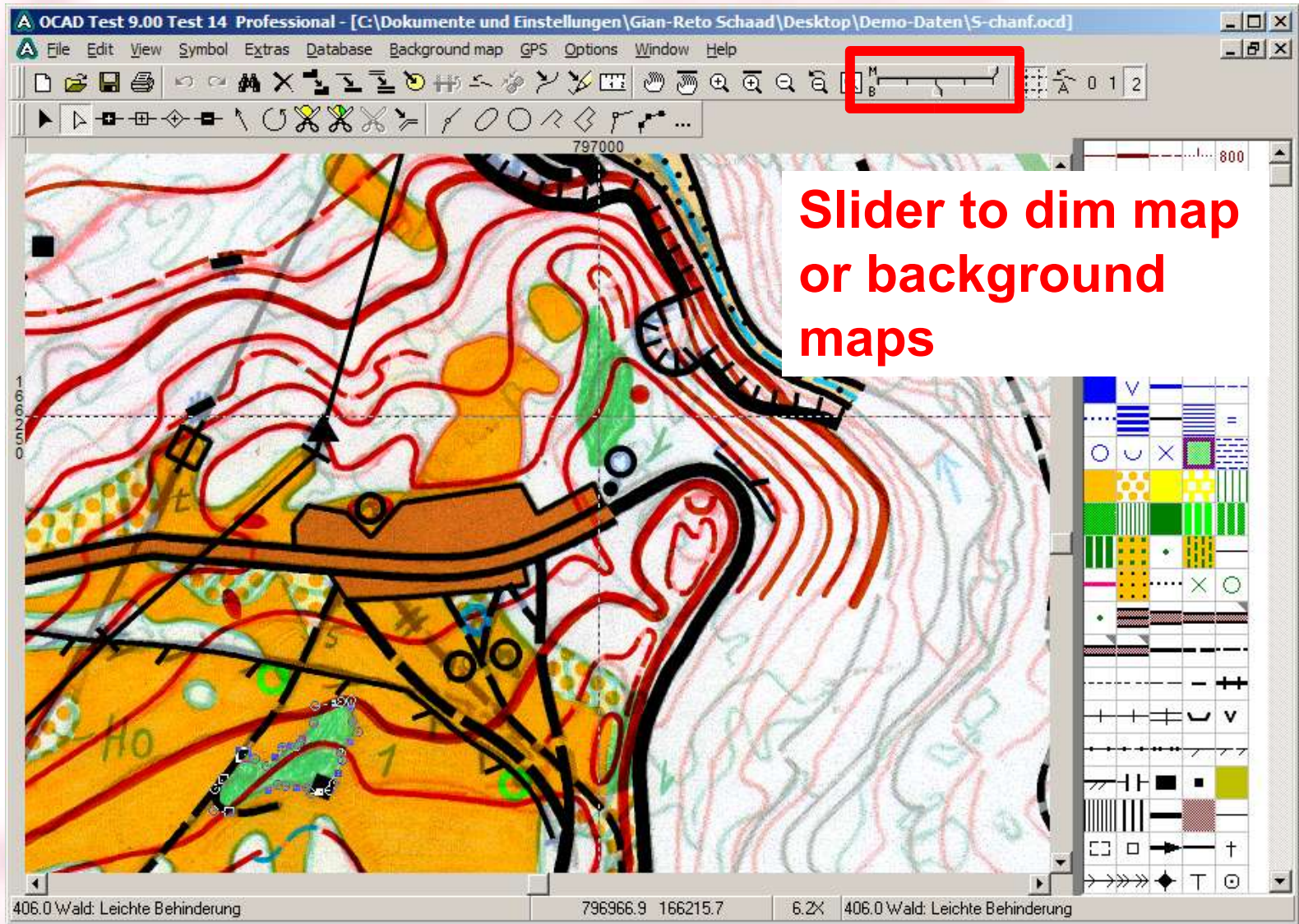
without Anti-Aliasing



with Anti-Aliasing



New Draft Mode



Color List

Colors		CMYK (process) colors						Spot colors						
No.	Name	Cyan	Magenta	Yellow	Black	0	Trans.	Black	Blue	Brown	Green	Yellow	Purple	Gray
201	Layout color Brown	0	56	100	18		100			100				
202	Purple	0	100	0	0		100						100	
203	White background	0	0	0	0		100	0	0	0	0	0	0	0
204	Purple transparent	0	100	0	0		100						100	
205	Purple 50%	0	50	0	0		100						50	
206	Purple 20%	0	20	0	0		100						20	
207	All color separations	100	100	100	100		100	100	100	100	100	100	100	100
208	Green for Ski-D	91	0	83	0		100				100			
101	Black	0	0	0	100		100	100						
102	White for road under construct.	0	0	0	0		100	0		0				
103	Street infill	0	28	50	9.5		100	0		50				
104	Street infill 30%	0	17	30	5.5		100	0		30				
105	Street borderlines	0	0	0	100		100	100						
106	Street borderlines 50%	0	0	0	50		100	50						
107	Blue	87	18	0	0		100		100					
108	Blue 50%	43.5	9.5	0	0		100		50		0	0		0
109	Blue 20%	17.5	3.5	0	0		100		20					
110	Brown	0												
111	Yellow100%/Green 50%	38												
112	White for green	0												
113	Green	76	0	91	0		100				100			
114	Green 60%	45.5	0	54.5	0		100				60			
115	Green 30%	23	0	27.5	0		100				30			
116	Brown 50%	0	28	50	9.5		100			50				
117	Brown 30%	0	17	30	5.5		100			30				
118	Black 50%	0	0	0	50		100	50						
119	Black 30%	0	0	0	30		100	30						
120	White for yellow	0	0	0	0		100					0		
121	Yellow	0	27	79	0		100					100		
122	Yellow 70%	0	19	55.5	0		100					70		
123	Yellow 50%	0	13.5	39.5	0		100					50		
124	Yellow 20%	0	5.5	16	0		100					20		
125	Gray	0	0	0	23		100							100
126	Gray 50%	0	0	0	11.5		100							50
127	Gray 20%	0	0	0	4.5		100							20
128	Yellow 50%/Green 50%	38	13.5	85	0		100			50	50			
129	Yellow 50%/Green 20%	15	13.5	57.5	0		100			20	50			

CMYK colors

Spot colors

Adobe Illustrator (AI) Import

- Import of colored AI logos
- Defined as graphic object (OCAD 8: unsymbolized object, gray)
- Due of graphic objects no additional color must be done for CMYK printing and exporting (not for spot colors!)



Print User Interface

The screenshot displays the OCAD 9.00 Professional interface. The main window shows a topographic map of Klosterwald with a blue rectangular print range selected. The map includes a title block with the following text: "Klosterwald", "Masstab 1:10'000", "Aequidistanz 5m", and "OL WM 2003". Below the map is a red banner for the "20th World Orienteering Championships 2003 - Relay" with various sponsor logos including CREDIT SUISSE, VICTORINOX, TER DIV4, VALOR INVEST, Halcim, SILVA, GEBERIT, and OZALID. The Print dialog box is open on the right, showing the printer set to "EPSON Stylus COLOR 880". The print range is set to "Partial map". The map scale is 10000, and the print scale is also 10000. The status bar at the bottom indicates a print size of 371.6 x 250.3 mm and a scale of 0.78X.

- choose print range
- portrait / landscape
- print current view
- print size on status bar

Export User Interface

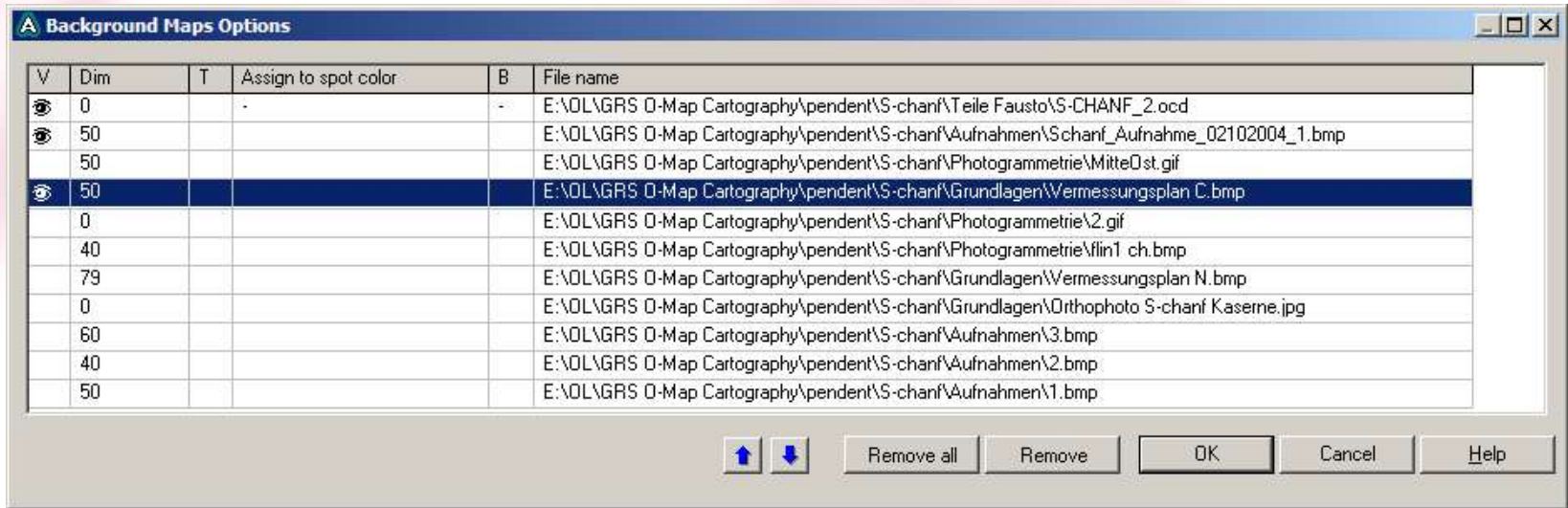
The screenshot displays the OCAD 9.00 Professional interface. The main window shows a topographic map of Chlosterwald with a scale of 1:10'000 and a 5m contour interval. The map includes various features like roads, buildings, and terrain. A blue rectangular selection box is drawn over a portion of the map, indicating the area to be exported. The 'Export' dialog box is open on the right side, showing the following settings:

- Format: TIFF
- Resolution: 300 dpi
- Anti-Alias: checked
- Color correction: checked
- Partial map: checked
- Tiles: unchecked
- Geo-referenced TIFF: unchecked
- Pixel size: 10.00 m
- Colors: Color TIFF (RGB) selected, Spot colors unselected
- Spot colors: A list of colors including Schwarz, Blau, Braun, Gruen, Gelb, Purpur, and Rot.
- Color: 256 colors (8 bits)
- Compression: LZW

At the bottom of the map, there is a red banner for the '20th World Orienteering Championships 2003 - Relay' with several sponsor logos including CREDIT SUISSE, VICTORINOX, TER DIV4, VALOR INVEST, Holcim, SILVA, GEBERIT, and OZALID.

- choose export range
- export current view
- PDF (without having Adobe Acrobat)
- SVG (Scalable Vector Graphics)

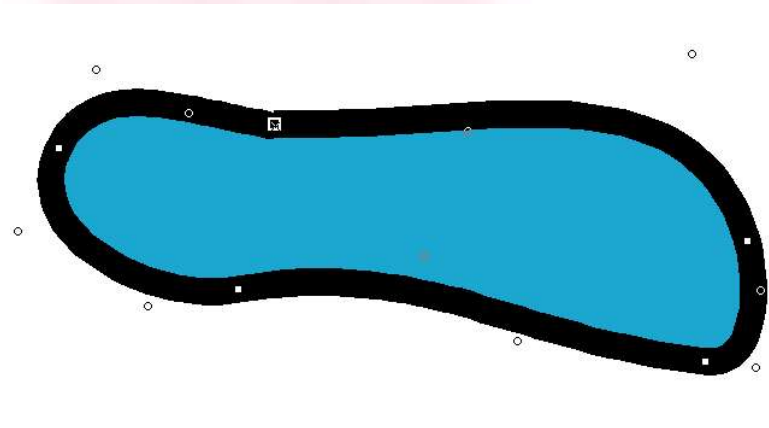
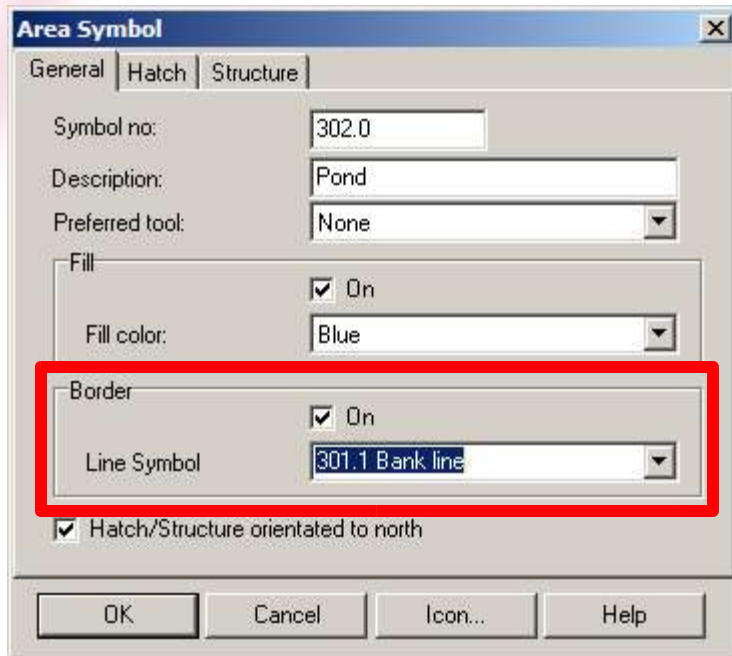
Background Map Options



- Set visible/hidden (replaces Close/Reopen)
- Dim
- Set background map transparent
- Managing background maps (Remove, remove all, change order)



Symbol Definition

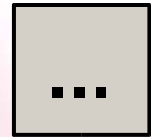
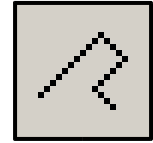


- Area symbol with border line



Two New Drawing Mode

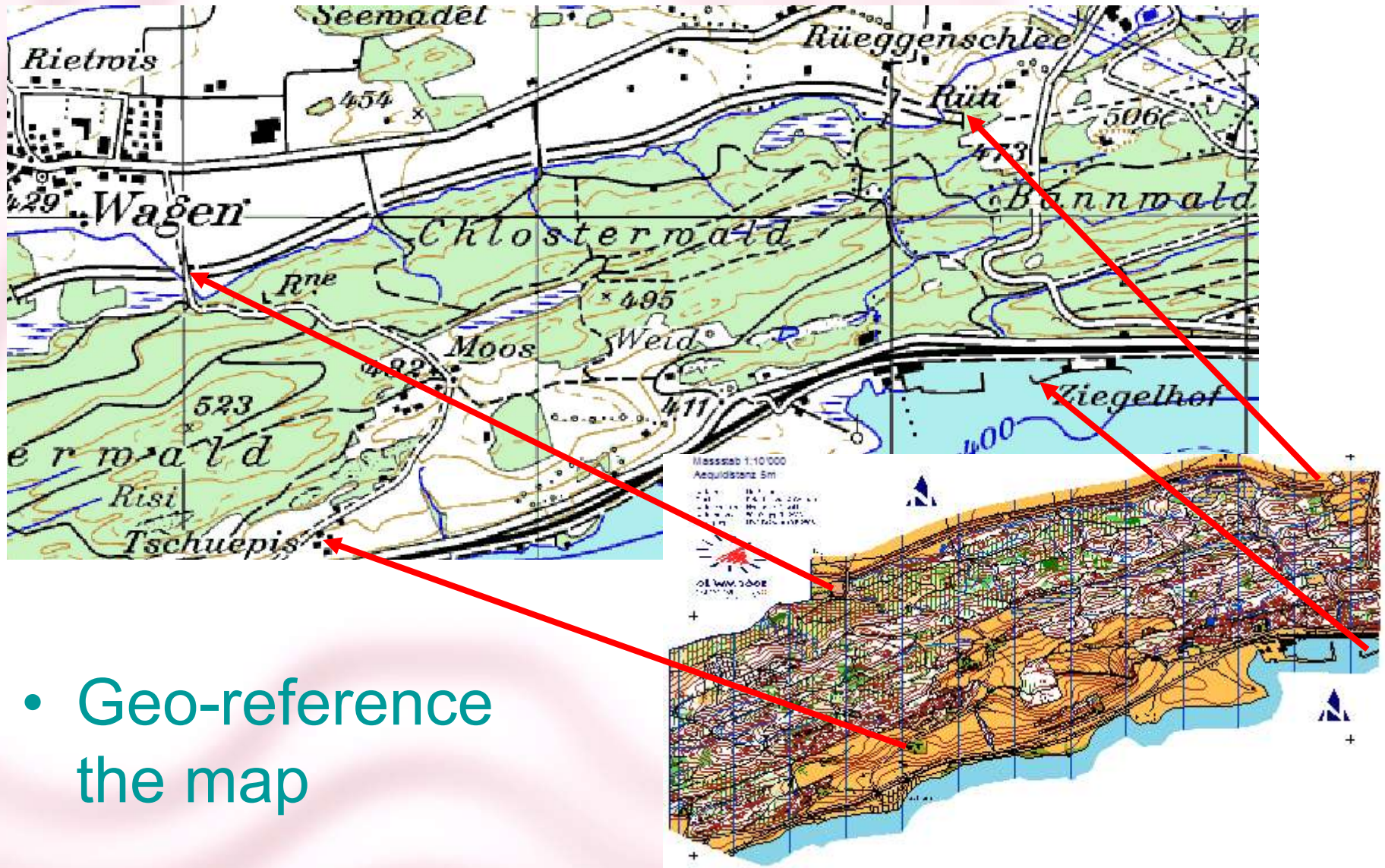
- Rectangular line drawing mode
(do not close line to start point)
- Numeric drawing mode



Easting:	<input type="text" value="-7.08"/>	Northing:	<input type="text" value="5.82"/>	<input type="text" value="mm"/>	<input type="text" value="m"/>	<input type="text" value="+"/>	<input type="text" value="↖"/>	Next	End
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Transform Map



- Geo-reference the map

Transform Map



- Transform OCAD objects according to background map
- Be careful: Stretching and rotating the map!



GPS Real Time

The screenshot shows the OCAD Version 9.00 Test version interface. The main window displays a map with various colored lines and shapes. A red circle highlights a button on the map. A semi-transparent text box is overlaid on the map, containing a list of features. In the bottom right corner, a small window titled 'GPS: GPS connected!' displays real-time data.

- GPS marker
- GPS box with start and end measurement button
- Transformation from WGS84 to local coordinate system

GPS: GPS connected!	
X:	231854
Y:	710046
Height:	442
Satellites:	9
HDOP:	2
10 sec. Precision:	17.6

GPS Data Import

Import from GPS

GPS: eTrex Legend Software Version 3.40 VERBMAP Atlantic Highway 1.00 VERSMAP International Marine POI 1.00
GPS-ID: 179 Version: 3.40
Status: GPS connected!

W: 016; waypoint dot; Y:796483 X:166836 H:1659
W: 017; waypoint dot; Y:796422 X:166748 H:1662
W: 018; waypoint dot; Y:796396 X:166756 H:1661
W: 019; waypoint dot; Y:796435 X:166802 H:1661
W: 020; waypoint dot; Y:796378 X:166851 H:1659
W: 021; waypoint dot; Y:796307 X:166402 H:1659
W: 022; waypoint dot; Y:796851 X:166467 H:1650
W: 023; waypoint dot; Y:796837 X:166891 H:1668
W: 024; waypoint dot; Y:796914 X:167113 H:1679
W: 025; waypoint dot; Y:797017 X:167117 H:1676
W: 026; waypoint dot; Y:797016 X:167162 H:1673
W: 027; waypoint dot; Y:796919 X:167208 H:1676

Connect GPS Close
Settings... Help

Get waypoints Get tracks

GPS Data
OCAD Objects
 Set labels
CRT Make

Coordinate system

Coordinate system

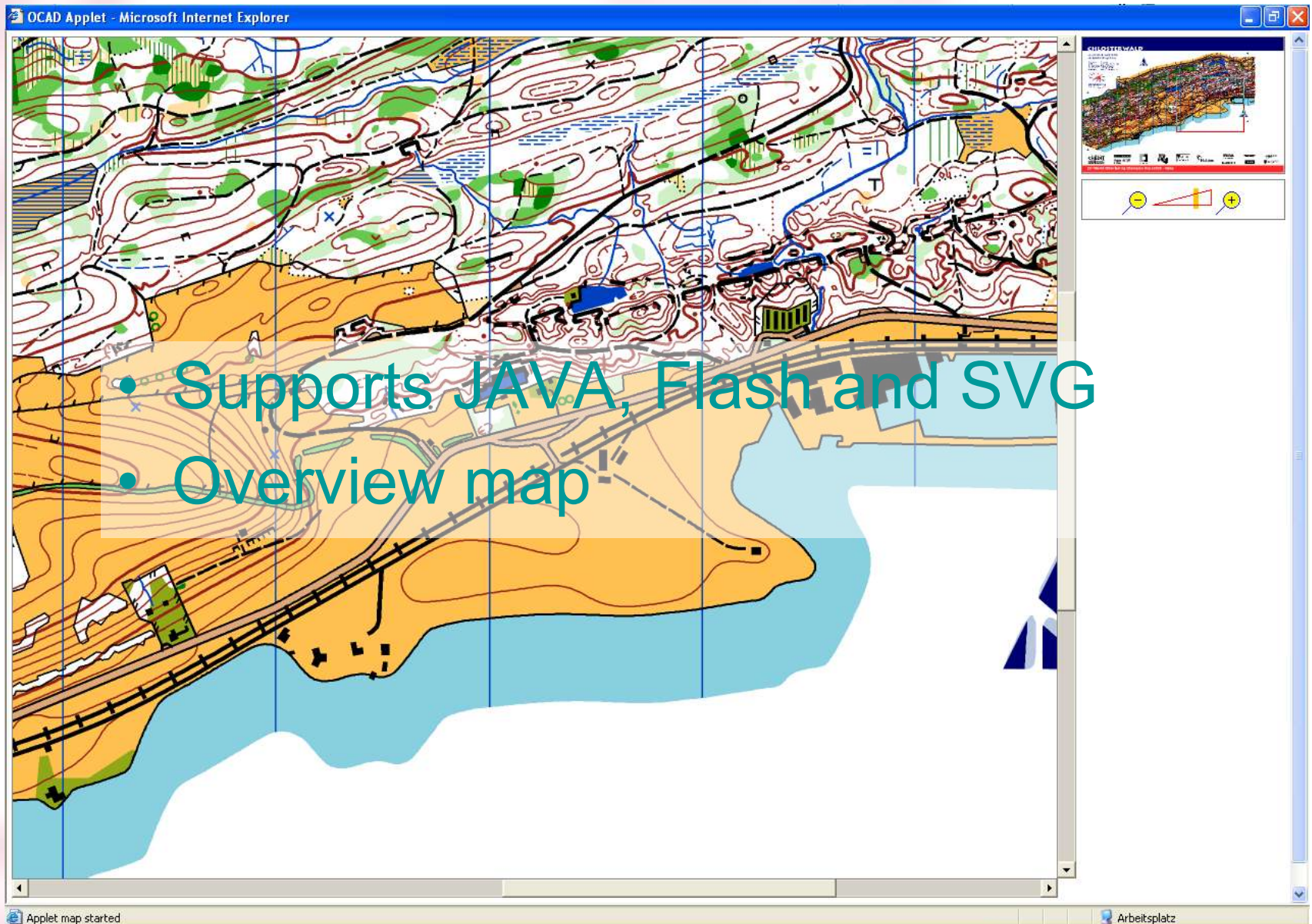
Grid: Swiss Grid CH1903
Finnish Grid KKJ
Map datum: France Lambert
German Grid DHDN, Gauss-Krüger
Japan
Norwegian Grid NGO 1948
Ellipsoid: Swedish RT90
Swiss Grid CH1903
Location: UTM

OK Cancel Help

- Import data (waypoints and tracks) from Garmin eTrex
- Transformation from WGS84 to local coordinate system



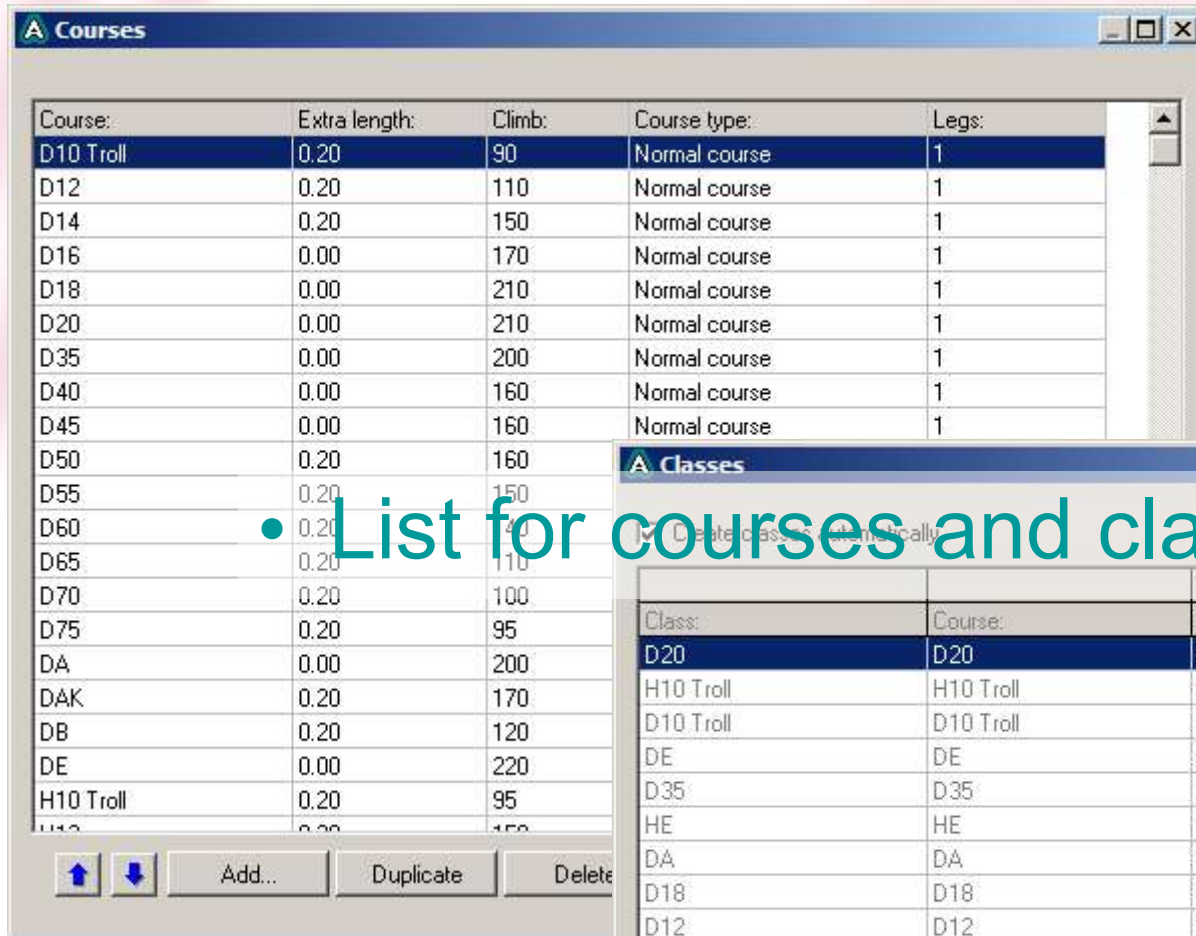
OCAD Internet Map



The screenshot shows a web browser window titled "OCAD Applet - Microsoft Internet Explorer". The main content is a topographic map with contour lines, roads, and buildings. A semi-transparent blue box is overlaid on the map, containing two bullet points. To the right of the main map is a smaller "Overview map" showing the current view's location within a larger geographic context. Below the overview map are navigation controls including a compass and zoom in/out buttons. The status bar at the bottom left shows "Applet map started" and the bottom right shows "Arbeitsplatz".

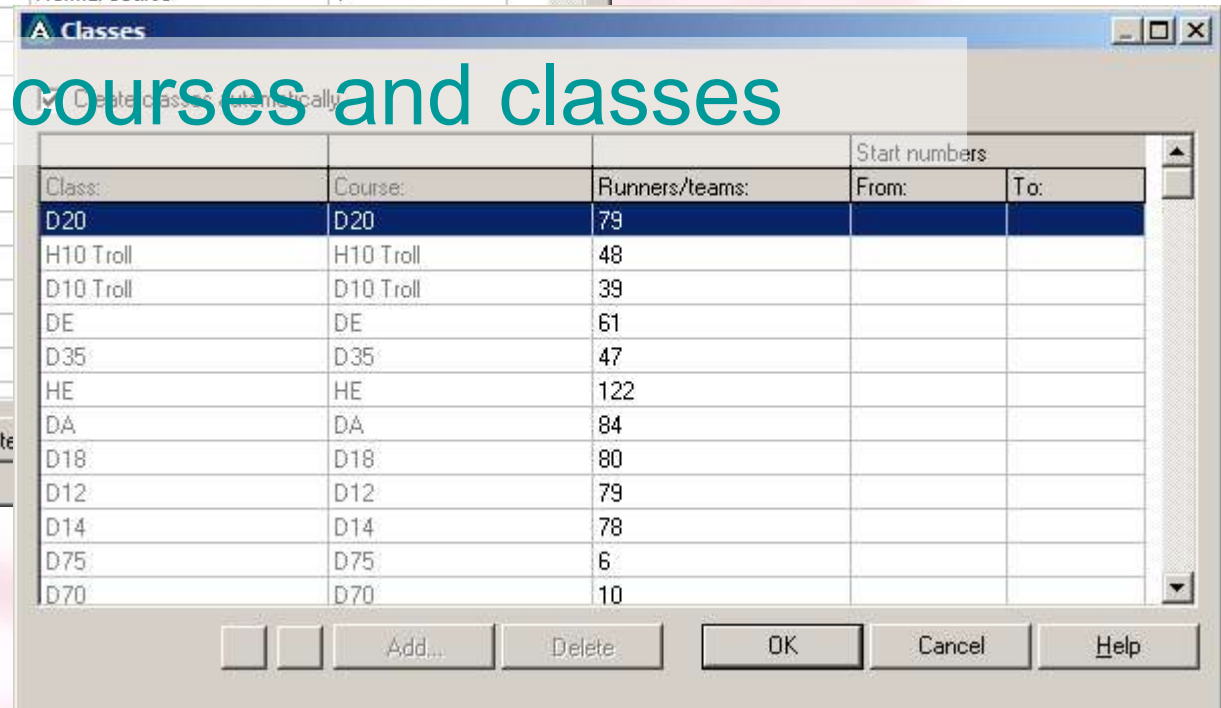
- Supports JAVA, Flash and SVG
- Overview map

Course Setting - Classes



Course:	Extra length:	Climb:	Course type:	Legs:
D10 Troll	0.20	90	Normal course	1
D12	0.20	110	Normal course	1
D14	0.20	150	Normal course	1
D16	0.00	170	Normal course	1
D18	0.00	210	Normal course	1
D20	0.00	210	Normal course	1
D35	0.00	200	Normal course	1
D40	0.00	160	Normal course	1
D45	0.00	160	Normal course	1
D50	0.20	160		
D55	0.20	150		
D60	0.20	140		
D65	0.20	110		
D70	0.20	100		
D75	0.20	95		
DA	0.00	200		
DAK	0.20	170		
DB	0.20	120		
DE	0.00	220		
H10 Troll	0.20	95		

- List for courses and classes



Class:	Course:	Runners/teams:	Start numbers	
			From:	To:
D20	D20	79		
H10 Troll	H10 Troll	48		
D10 Troll	D10 Troll	39		
DE	DE	61		
D35	D35	47		
HE	HE	122		
DA	DA	84		
D18	D18	80		
D12	D12	79		
D14	D14	78		
D75	D75	6		
D70	D70	10		

Course Setting

OCAD Test 9.00 Test 0 Professional - [X:\Bahnlegung\Bahnen Laax.ocd]

File Edit View Symbol Extras Course Database Template Options Window Help

0 1 2

50 100

Object

Change code... Text Symbol...

Classes: Frequency: 502
DA H18 H40 H45

Course

DA

Preview

Insert... Reset

Length: 3.220

S1
1. 32
2. 35
3. 43
4. 60
5. 53
6. 59
7. 78
8. 57
9. 61
10. 100
M3
11. 145
12. 119
13. 125
14. 149
M1
Z1

134.22 99.81 2.2K 720.0 Postenbeschreibung oben links

- Thicker line each 3rd or 4th row
- Automatic white background
- Control description for all controls on map
- Print relay variation on map
- IOF XML export for course data

CS – Runner Statistic

OCAD Test 9.00 Test 0 Professional - [X:\Bahnlegung\Bahnen Laax.ocd]

File Edit View Symbol Extras Course Database Template Options Window Help

0 1 2

Object
Change code... Text Symbol...

Classes: DA D18 Frequency: 164

<Control frequencies>

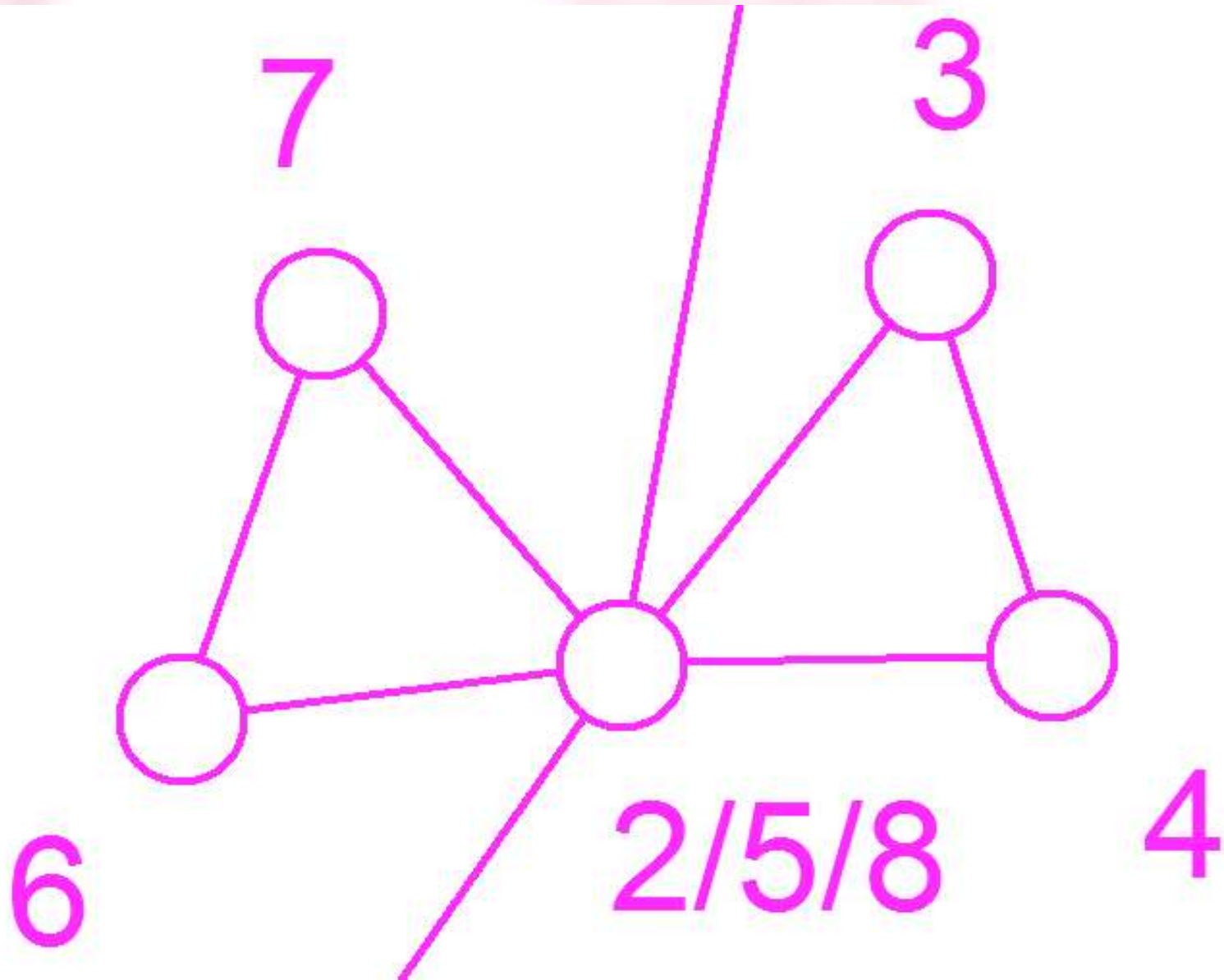
Preview Insert... Reset

Length:

29.88 12.18 5.6K 830.1 Postnetz: Code

- Runner statistic for each control placed on the map

Course Setting - Butterfly



CS – Control Description

- IOF 2004
- New Header
- Map change
- Text boxes
- Passages

Event Example			
Map change 1			
Change1	5.4 km	70 m	
▶		/ ↗ y	
1	101	⋯	<
2	212 ↖	▲	1.0 ○
3	135	⊗ ⊗	≡
4	246	⊖	○
5	164 →	□	○
6	33	⊢	
○ --- 290 m --->▶			
▶		×	

Event Example		
M45, M50, W21		
5	7.6 km	210 m
▶		/ ↗ y
1	101	⋯
2	212 ↖	▲
3	135	⊗ ⊗

Event Example		
Textblock		
Text	2.0 km	20 m
▶		/ ↗ y
1	246	⊖
2	185	↗ ↘
3	36	□
CROSS THE STREET		
4	149	/ / ×
○ --- 240 m --->○		

Event Example		
Passages		
Passages	1.8 km	50 m
▶		/ ↗ y
1	31	•
○ ⊗ = ⊗ ○		
2	32) (
3	33	⊢
○ ⊗ ≡ ⊗ ○		
4	34	∇
○ --- 290 m --->○		

