OCAD-Tutorial

Visualization of GIS Data in OCAD



OCAD AG Mühlegasse 36 CH - 6340 Baar / Schweiz Tel (+41) 41 763 18 60 Fax (+41) 41 763 18 64

> info@ocad.com http://www.ocad.com

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System Requirements

Before you start with the tutorial, we recommend you to download and install the Borland Database Engine and the Microsoft Access Database Engine 32-bit.Otherwise there could occur problems if you import shape files or edit objects connected to a database.

Borland Database Engine: http://download.chip.eu/en/Borland-Database-Engine-5.1_73694.html Microsoft Access Database Engine 32-bit: http://www.microsoft.com/en-us/download/details.aspx?id=13255

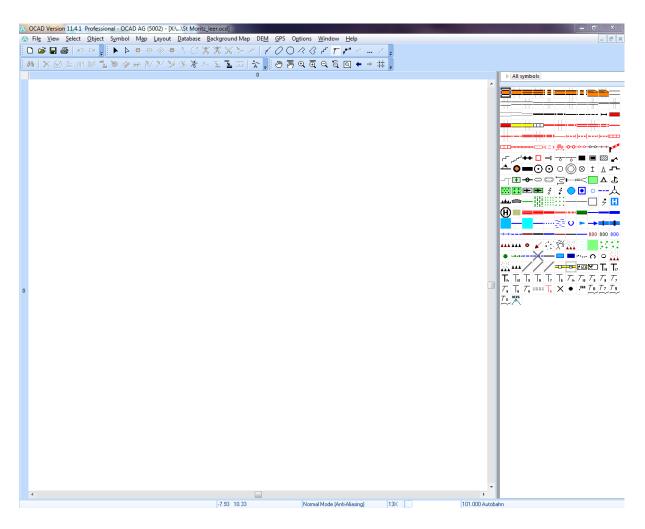
The Access Database Engine 2010 32-bit Edition cannot be installed if the Microsoft Office 2010 64bit Edition is installed on the same computer. In this case you have to install the Access Database Engine 2007 32-bit Edition.

Eearn Videos (HowTos) for particular topics can be found in the OCAD Learn-Videos directory or online at http://www.ocad.com/en/howtos.htm

1 Open OCAD file

Open the file St Moritz leer.ocd.

The file is located in the directory *St Moritz_ocad*.



Save file

Save the file as *St Moritz.ocd*. (*File* \rightarrow *Save as...*)

Check Map Scale

Make sure that the correct map scale is selected.

> For this example it is 1:25000

(Map \rightarrow Set Scale and Coordinate System...)

Set Scale and Coordinate Syste	m	X
Map scale:	1 : 25000 -	•
Coordinates		
Paper coordinates		
Grid distance:	250.0000	i mm
Real world coordinates		
Easting offset:	0	in m
Northing offset:	0	i m
Angle:	0.00	C≠ deg
Grid distance:	1000	▲ m
Coordinate system		
Grid undefined		Choose
-Additional local off		
Easting:	0.00 m	
Northing:	0.00 m	
		OK Cancel Help

Define Coordinate System

Click the *Choose*... button to define a coordinate system. The *Coordinate System* dialog is displayed. Choose the corresponding coordinate system. (Coordinate System: *Swiss Grid*)

Coordinate system		
Coordinate system		
Coordinate system:	Swiss Grid	-
Zone:	CH1903	•
Map datum:	CH 1903	
Ellipsoid:	Bessel_1841	
Location:	Switzerland, Liechtenstein	
EPSG:	21781	spatialreference.org
Remove	OK Cancel	Help

The Set Scale and Coordinate System dialog is displayed again. \rightarrow OK

2 Import Shape Files

Import all shape files from the directory *St Moritz_shp*. (*File* \rightarrow *Import*...)

anize 🔻 New folder			iii • 🔟 🔞
Favorites Name	Date modified	Туре	Size
Desktop anl_stm_a.shp	10.06.2003 15:39	SHP File	2 KB
Downloads anl_stm_l.shp	10.06.2003 15:39	SHP File	2 KB
Recent Places anl_stm_p.shp	10.06.2003 15:39	SHP File	1 KB
Favorites eis_stm_l.shp	10.06.2003 15:41	SHP File	6 KB
Eigene Dateien eob_stm_l.shp	10.06.2003 15:42	SHP File	22 KB
tmp eob_stm_p.shp	10.06.2003 15:42	SHP File	1 KB
geb_stm_a.shp	10.06.2003 15:44	SHP File	162 KB
Libraries 🗧 🗋 gwn_25_l.shp	10.06.2003 15:47	SHP File	56 KB
Documents heb_stm_l.shp	10.06.2003 15:50	SHP File	1 KB
Music heb_stm_p.shp	10.06.2003 15:50	SHP File	16 KB
Pictures pri_stm_a.shp	10.06.2003 15:58	SHP File	435 KB
Videos pri_stm_l.shp	10.06.2003 15:58	SHP File	251 KB
str_stm_l.shp	10.06.2003 16:00	SHP File	175 KB
Computer uvk_stm_l.shp	10.06.2003 16:02	SHP File	2 KB
Local Disk (C:)			
ata (\\Dellservei			
exchange (\\Dell:			
e interbase (\\Dells			
-			
File name: St Moritz_leer		 Importable f 	tiles 🔻

The Import Shape File dialog is displayed.

Choose the Microsoft Access 2003/2010 mdb database type.

nport Shape File		<u> </u>		
Shape size				
Easting:	784596786230			
Northing:	152343154365			
Coordinate system				
Shape file: Swiss Grid CH19	003 Choose			
Map: Swiss Grid CH19	03			
Offset		Databasa tura		
New offset		Database type		
Easting offset:	785000	🔘 dBase		Code page of dBase import file
Northing offset:	153000	Microsoft Access 2007 ac	edb	Default
Angle:	0.0 Gr deg	0		Ocode page: DOS USA code page 437 -
Map scale:	1: 25000 🗸	Microsoft Access 2003/20	10 mdb	Ode page: DOS USA code page 437 ▼
Existing offset and angle		💿 Do not create a database		
(0 / 0 / 0.00)		·		
Database type				
🔘 dBase 📃 📈	Code page of dBase import file			
Microsoft Access 2007 accdb	O Default			
Microsoft Access 2003/2010 mdb	Code page: DOS USA code p	age 437 🔹		
🔘 Do not create a database				
Key field in database				
Oreate new key field				
O Use existing key field:	AREA			
Import layer information				
O not import any layer information				
O Use layer information from field	AREA			
			→ 0	K
	ОК	Cancel Help		

3 Assign Symbols

Assign Symbols by Records

Database → Assign Symbols by Records... → Load...
Select the file Landeskarte.cnt from the St Moritz_cnt directory.
→ Open

Choose All datasets.

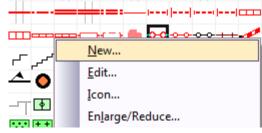
A Assign Symbols by Re		
Dataset:	anl_stm_a_0	AII
CNT file		
File name: Landes	karte.cnt	
Loi	ad Save	Save as
Condition		
Symbol:	Condition:	<u> </u>
101.000 Autobahn	OBJECTVAL LIKE 'Autobahn'	
	tungs OBJECTVAL LIKE 'Autob_R'	
103.000 Autostrasse	OBJECTVAL LIKE 'Autostr'	
	(Auto OBJECTVAL LIKE 'Ein_Ausf' hrt OBJECTVAL LIKE 'A_Zufahrt'	
105.000 Autobalinizura 106.000 1. Klass Strass		
	e OBJECTVAL LIKE '2_Klass'	
100 000 0 14 04		-
	Add	Delete
		out
	Execute Cancel	Help
		\rightarrow Exec
	1 for the	
		S

4 Display all Cable Cars in Red

The goal of this chapter is to make cable cars stand out with a red color. Because the cable car rails are already red, you only have to adjust the stations.

Right click in the symbol box and click on New...

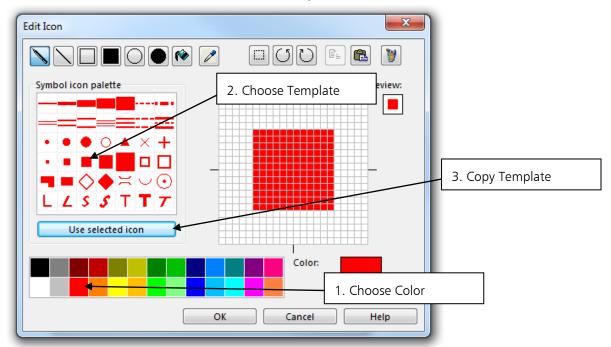
The New Symbol dialog appears. Choose Area Symbol and click OK.



The *Area Symbol* dialog is shown. Enter a symbol description (e.g. Cable Car Station) and choose the color (24: Rot Bahn oben).

Area Symbol	×
General Hatch Structu	re
Symbol number:	1.003
Symbol description:	Cable Car Station
Preferred drawing tool:	None
Fill	🖉 On
Fill color:	24: Rot Bahn oben 👻
Border	🗖 On 🔹
Line Symbol	
Hatch/Structure orien	tated to north when rotating
OK Canc	el Icon Help

Klick on the *lcon...* button to create an icon for this symbol.



Choose in this dialog a red color and click on an icon template in the Symbol icon palette. Close the dialog ($\rightarrow OK$).

The Area Symbol dialog appears again. Close this dialog now ($\rightarrow OK$).

You can now adjust the color of the cable car stations.

Database \rightarrow Assign Symbols by Records... \rightarrow Load...

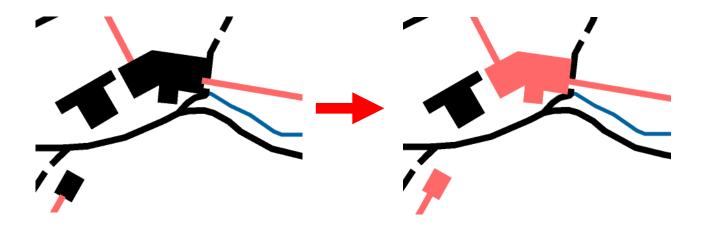
Select again the file Landeskarte.cnt from the St Moritz_cnt directory. \rightarrow Open

Scroll down to the bottom of the Condition table.

You should find there the description $OBJECTVAL = 'Z_Station'$. Change the assigned symbol for this description to 1.003 Cable Car Station.

Assign Symbols by Record	ds 🛛 🔀
Dataset: a	nl_stm_a_1 🔹 🔽 All
CNT file	
File name: Landeskarte	e NEU.cnt
Load	Save Save as
Condition	
1.001 Übrige Linie	OBJECTVAL = 'Fluss'
1.001 Übrige Linie	OBJECTVAL = 'Fluss_U'
1.000 Übriges Gebiet	OBJECTVAL = 'Z_Perron'
604.000 Fluss	OBJECTVAL = 'Z_Lagertank'
1.002 Übriger Punkt	OBJECTVAL = 'Z_BhArea'
1.000 Übriges Gebiet	OBJECTVAL = 'Z_Innenhof'
712.000 Wald	OBJECTVAL = 'Z_GerWa'
.003 Cable Car Station 🔻	OBJECTVAL = 'Z_Station'
1.003 Cable Car Statio 209.000 Gondelbahn/S 210.000 Transportseil/1 211.000 Skilift 115.000 Durchfahrtssp	Add Delete

Save the new table (\rightarrow Save) and assign the symbols (\rightarrow Execute).

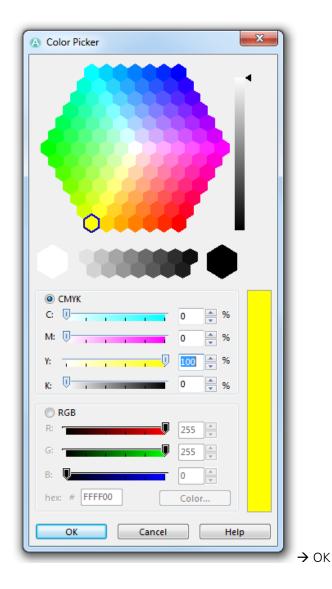


5 Import Hiking Trails

The goal of this chapter is to import a trail with GPS data and display it on the map.

First, you have to define a new color for the trail. Open the *Colors* dialog. (*Map* \rightarrow *Colors*...)

Click the *Add* button and open the color picker to choose the new color. (\rightarrow Choose color from color picker...)



The Color dialog appears again. You can now name the color (e.g. Yellow for Hiking Trail)

The order of the different colors is very important. The colors on top of the list cover the ones below. Symbols drawn with a top color also cover symbols drawn with a color below. Therefore, the new red color has to be placed below the colors for text/paths etc. and on top of the colors for contour lines etc.

> To move a color in the table you have to select it and click on the arrow buttons below.



Create now a new line symbol (Symbol \rightarrow New...). The Line Symbol dialog is displayed.

- > Change the *Line color* to the defined *Yellow* color.
- > Enter the Symbol description (Hiking Trail) and the Line width (e.g. 1 mm).

Line Symbol	x					
Main Line Distances Sy	mbols Double Line Decrease Framing					
Symbol number:	1.004					
Symbol description:	Hiking Trail					
Preferred drawing tool:	None					
Line color:	25: Yellow for Hiking Trail					
Line width:	1.00 mm					
Line style						
Line length						
Distance from start:	0.00 mm ?					
Distance to the end:	0.00 mm					
	Pointed ends					
OK Cancel Icon Help						

Click the *Icon...* button to create an icon for this symbol.

Edit Icon			×
	Choose the color below and select a predefined icon.		Preview:
			_
L Z S S T T	7		
		Color:	
	ОК	Cancel	Help

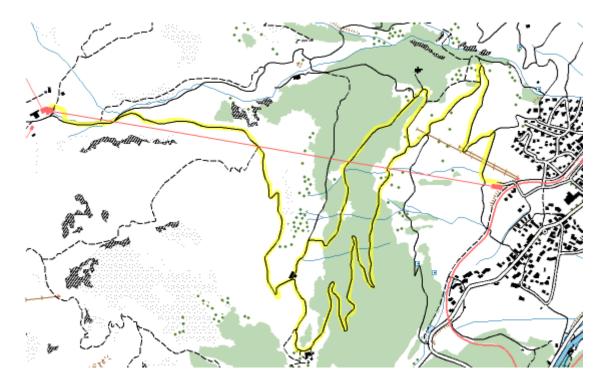


The Line Symbol dialog is displayed again. You can now close this window. ($\rightarrow OK$)

Import the GPS data. (GPS \rightarrow Import from File...)

Open the file *B05457-Marchenweg_Marguns_Celerina.gpx* from the *St Moritz_gpx* directory.

Import from File	
GPS waypoint: 001 gerade City (Small) GPS waypoint: 002 links City (Small) GPS waypoint: 003 rechts City (Small) GPS waypoint: 004 links City (Small) GPS waypoint: 005 rechts City (Small) GPS waypoint: 006 links City (Small) GPS waypoint: 007 links City (Small) GPS waypoint: 009 links City (Small) GPS waypoint: 009 links City (Small)	
GPS waypoint: A02 links City (Small) GPS waypoint: A03 rechts City (Small) GPS waypoint: A1 rechts City (Small) GPS waypoint: Alp Laret Summit GPS waypoint: Celerina City (Small) GPS waypoint: Start Parking Area GPS track: B05457-0 Marchenweg_MargunsCelerina GPS track: B05457-1 Marchenweg_MargunsCelerina	Select both GPS tracks. (The waypoints should not be selected)
OCAD objects Set labels Assign symbols	Select the defined symbol for the hiking trail.
Tracks 1.004 Hiking Trail Waypoints 🙇 🗸 207.000 Autoverladestation	Click Import.
CRT Import Close	



The imported trail is shown in yellow color.

6 Labels for Hiking Trails

Create again a new color.

- > Choose a red color.
- > Name the color *Red for Labels*.
- > Place the color on top of the color 12: Blau Schrift in the color dialog.

Create a new text symbol. (Symbol → New...)

The Text Symbol dialog is displayed.

- > Enter a Symbol description (e.g. Label for Trail).
- > Change the color (Red for Labels).
- Change the size (14.0 pt).

Text Symb	ol				×
General	Paragraph	Tab	Line Below	Framing	
Symbo	l number:	1	.005		
Symbo	l description:	L	abel for Trail		
Font:		ŀ	Arial		•
Color:		2	6: Red for Lab	els	-
Size:		1	4.0	pt	
Charac	ter height:	З	.54	mm	
Bol	d		Italic		
H G H H	ing mode orizontal text otated text				?
Aa	BbCc				
	ОК	Ca	incel	Icon	Help

Click the *lcon...* button to create an icon for this symbol.

ОК

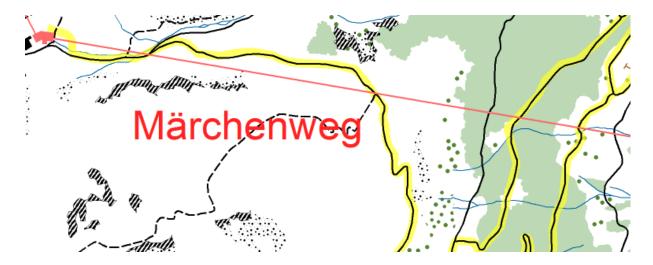
Edit Icon	Choose the color below and select a predefined icon.	
Symbol icon palette		Preview:
Use selected icon		
	OK Cancel	Help

The *Text Symbol* dialog is displayed again. Close this window now ($\rightarrow OK$).

In order to label the trail, select any drawing tool.



Click on the position where you want to place your label and enter the description of the trail. (Märchenweg)



7 Labels for Cable Cars

Create a new text symbol (Symbol → New...)

General Paragraph Tab Line Below Framing Symbol number: 1.006 Symbol description: Label for Cable Car Font: Arial Color: 60 Pt Character height: 2.53 mm Bold Ø Itakc Drawing mode Horizontal text Rotated text ABBDCc OK Cancel Icon Heip Symbol con palette Preview: Symbol con palette Preview:	
Symbol description: Label for Cable Car Font: Arial Color: 6: Red for Labels Size: 10.0 pt Character height: 2.53 mm Bold	
Font: Color: Size: 10.0 ♥ pt Character height: 2.53 ♥ mm Bold ♥ Italc Drawing mode ♥ Horizontal text Rotated text AaBbCc OK Cancel Icon Help Foreiever Symbol icon palette Symbol icon	
Color: Size: 10.0 pt Character height: 2.53 mm Bold	
Size: 10.0 pt Character height: 2.53 mm Bold I Lak Drawing mode ● Horizontal text ● Rotated text AaBbCc OK Cancel Icon Help	
Character height: 2.53 mm Bold	
Bold I take Drawing mode Horizontal text Rotated text Rotated text AaBbCc Icon OK Cancel Icon Help →lcon	
Drawing mode ● Horizontal text ● Rotated text AaBbCc OK Cancel Icon AaBbCc OK	
Horizontal text Rotated text AaBbCc OK Cancel Icon Help →Icon	
For the set of the	
Cancel Icon Help →Icon Edit Icon Edit Icon Image: Symbol icon palette <p< td=""><th></th></p<>	
Edit Icon Help →Icon	
Edit Icon Edit Icon Symbol icon palette Symbol ico	
→lcon	
Edit Icon	
Edit Icon	
$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	
Symbol icon palette Preview: \checkmark \checkmark \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet	
Symbol icon palette Preview: \checkmark \checkmark \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet \land \checkmark \bullet	
▏▝▋■◇◆≍ੁ⊙	
L L S S T T T	
Use selected icon	
OK Cancel Help	
→ OK	
eate the labels as shown in the example.	
Marine Marine State	
Marguns (Val Saluver)	ķ
	r and a second
	4
and the second s	C
	tels i de
Märchenweg	inter i i i i
	the start of the start of the
	in in the second second
BESTIC	and the second second

8 Import Elevation Model

In order to create contour lines for the map, you first have to import elevation data.

 $(DEM \rightarrow Import...)$

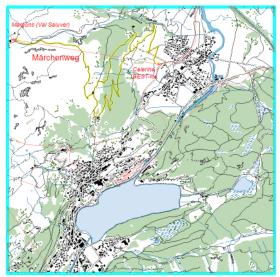
Click in the *DEM Import* dialog on the *Add* button and select the file *St Moritz_DHM_2m.xyz* from the directory *St Moritz_xyz*.

Click now the *Analyze* button. This process will take a moment, because the elevation model is a large file.

DEM Import			×
Importable files			
St Moritz_DHM_2m.xyz			dd ?
Coordinate system DEM files: Swiss Grid CH190 Map: Swiss Grid CH190 Convert height values from feet	3		Choose
			Analyze
Analyze files Minimum easting: Maximum easting: Minimum northing: Maximum northing: Data type of import files Grid Raw (cloud of vector points) Points: Rows: Columns: Minimum haloht value:	783001.00 786999.00 151001.00 154997.00 2.00 m 3'998'000 1999 2000 1709	LAS Settings Classification Unclassified Ground Low vegetation Mean vegetation High vegetation Building Water Other Load intensity map and classification map Return Number	o as background
Minimum height value: Maximum height value: Save GeoTIFF with DEM raw data po	2448	 First return Last return All returns 	
Save Cancel	Help	Choose DSM Choose DTM	

Klick the *Save* button and save the elevation model as an ocddem file with the name *St Moritz_hoehe*. Ocddem is an OCAD internal file format for elevation models. It allows OCAD a fast access to the elevation data.

A blue frame is now displayed, which defines the dimensions of the loaded elevation model.



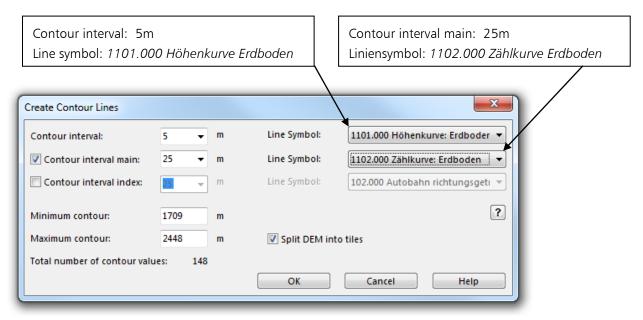
9 Create Contour Lines

The data can now be used to create contour lines.

(DEM → Create Contour Lines...)

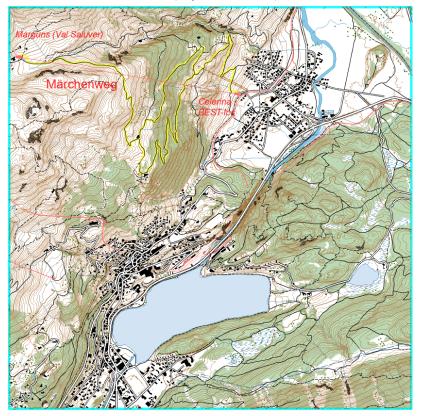
Enter the same values as in the example.

Deactivate the *Contour interval index* option.

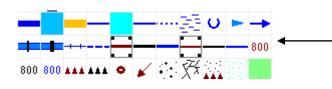


 \rightarrow OK. The calculation while take some time.

The contour lines are now displayed on the map.



The contour lines are created tile by tile. They now have to be merged together again.



Select the symbols 1101.000 Höhenkurve: Erdboden and 1102.000 Zählkurve: Erdboden by clicking on their icons while pressing the control key.

 $DEM \rightarrow$ Merge Contour Lines By Selected Symbols...

Merge Contour Lines By Selected Symbols		x
Minimum contour:	1709	m
Maximum contour:	2448	m
Contour interval:	5	m
Optimize this file after merging		
OK Cancel	Help	
	_	_

File size before optimization:	6'556'700
File size after optimization:	6'556'700
Objects repaired:	0
Damaged objects deleted:	0
Spurious objects deleted:	0
Unsymbolized objects:	135 (not deleted)
Objects with unknown symbol:	0 (not deleted)
Objects with invalid symbol type:	0 (not deleted)



→ОК

10 Create Hill Shading

$DEM \rightarrow$ Create Hill Shading...

Choose Hill shading (slope shading combined with oblique light shading).

Create Hill Shading		
Shading method:		
 Hill shading (Hill shading (slope shading) slope shading combined with oblique light shading)	?
() This shading (nope shading combined with oblique light shading)	
Azimuth:	315 📥 €) deg	
Declination:	45 deg	
Exaggeration:	9 🗸	
✓ Load the exported	d map as background map.	
	OK Cancel	Help

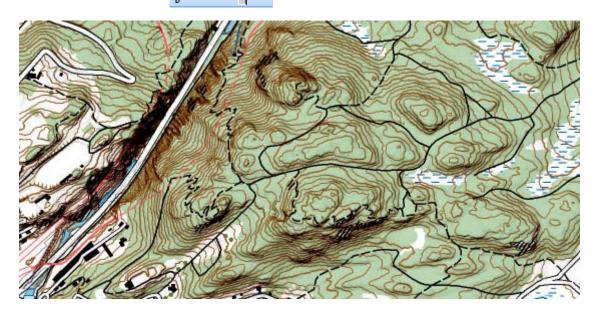
Switch to the draft mode. (View \rightarrow Draft Mode)

Version 11.4.1 Professional - OCAD AG (5002) - [C:\\St							
<u>V</u> iev	w <u>S</u>	elect	<u>O</u> bject	Symbol	<u>M</u> ap	<u>L</u> ayout	<u>D</u> atal
<u>N</u> ormal Mode							
Spot Color Mode							
<u>D</u> raft Mode							
	D <u>r</u> aft Mode (Only Background Map Favorites)						

The hill shading is now visible on the map.

Use the Draftmode-Slider to adjust the opacity of the map.

Set the following option:

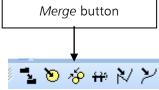


11 Create a Profile of the Hiking Trail

First you have to merge the parts of the hiking trail.

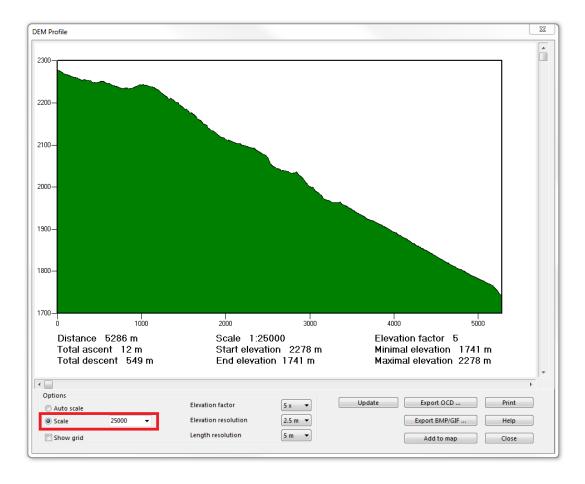
Right click on the symbol (1.001 Hiking Trail) in the symbol box. Then click Select Objects by Symbol... If the trails are selected, click on the Merge button in the toolbar.

	-	
E	<u>N</u> ew	
	<u>E</u> dit	
	Icon	
	En <u>l</u> arge/Reduce	
	<u>С</u> ору	
	P <u>a</u> ste	
	<u>D</u> elete	
	D <u>u</u> plicate	
	<u>S</u> ymbol Sort	•
	Selec <u>t</u>	•
	<u>R</u> eplace	•
	N <u>o</u> rmal	F2
	<u>P</u> rotect	F3
	<u>H</u> ide	F4
	Select O <u>b</u> jects by Symb	ol
	Show Symbol Favorites	
	Add To <u>F</u> avorites	





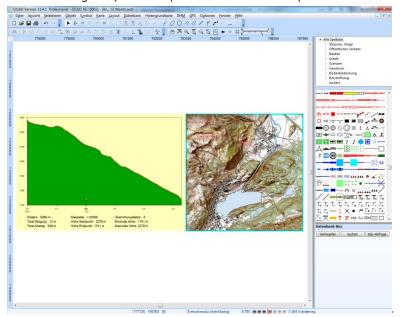
You can now create the elevation profile (*DEM* \rightarrow *Create Profile...*) The *DEM Profile* dialog is displayed. Set the *scale* to 1:25000.



Add the created profile to the map. (Add to map $\rightarrow OK$) The DEM Profile dialog is displayed again. You can now close this dialog. ($\rightarrow Close$)

Zoom out \bigcirc to keep the overview.

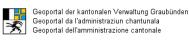
Click and drag the profile to place it next to the map.



OCAD has additionally created symbols and colors for the DEM profile. You can edit those if you like.

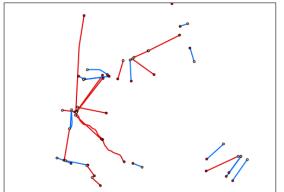
12 WMS: Adjust Cable Car

One cable car near Celerina was renovated. To adjust this change, you can load a WMS with all cable cars from the GeoPortal of the canton of Grisons as a background map.



Informationen zum WMS seilbahnen

Ausschnitt



URL zur Visualisierung in einem WMS-Client oder GIS-Programm http://wms.geo.gr.ch/seilbahnen

Nutzungshinweise

Informationen zur Nutzung von WMS

Layer Seilbahnen_Bahnachsen Seilbahnen_Stationen Text_Zoombereich_oben Text_Zoombereich_unten

Legende Seilbahnen_Bahnachsen

Eidgenössische Anlagen
 Kantonale Anlagen
 Skilifte

Background Map \rightarrow WMS – Web Map Service... The WMS - Web Map Service dialog appears. Click on the Add button

Enter in the *Add WMS Server* dialog the following information: *Name:* Seilbahnen Graubuenden *URL:* http://wms.geo.gr.ch/seilbahnen

ame	Seilbahnen Graubuenden
JRL	http://wms.geo.gr.ch/seilbahnen
/ersion	1.1.1 •
Login:	
Password:	
Token Server URL:	
Key:	
	OK Cancel Help

Click in the WMS – Web Map Service dialog the Connect button. (\rightarrow Connect) Select the Seilbahnen_Bahnachsen WMS Layer and add it to your background maps. (\rightarrow Add selected layers as WMS layers to background maps (online))

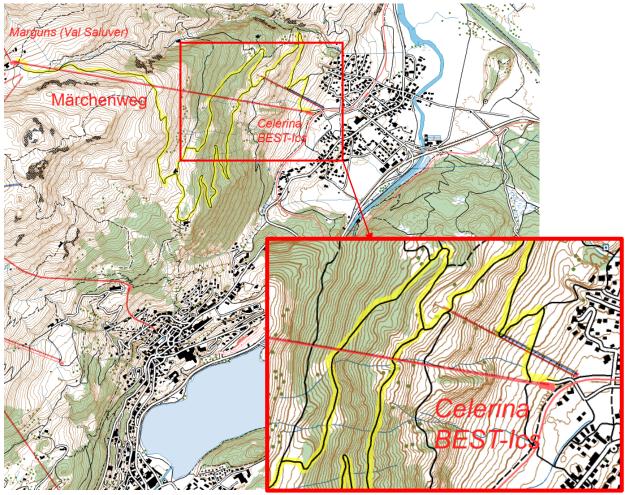
 \checkmark You need an internet connection to load a WMS Layer.

ID	Name	Title	Summary	Scale range
0	WMS_Seilbahnen	Kanton Graubünden, Seilbahnen	WMS_Seilbahnen	
1	Seilbahnen_Bahnachsen	Bahnachsen		1:2727 - 1:733333
2	Seilbahnen_Stationen	Stationen		1:2727 - 1:733333
3	Text_Zoombereich_oben	Text_Zoombereich_oben		1:733333 - 1:1999999
4	Text_Zoombereich_unten	Text_Zoombereich_unten		1:49 - 1:2727

As soon the layer is loaded, you can close the dialog. (\rightarrow Close)

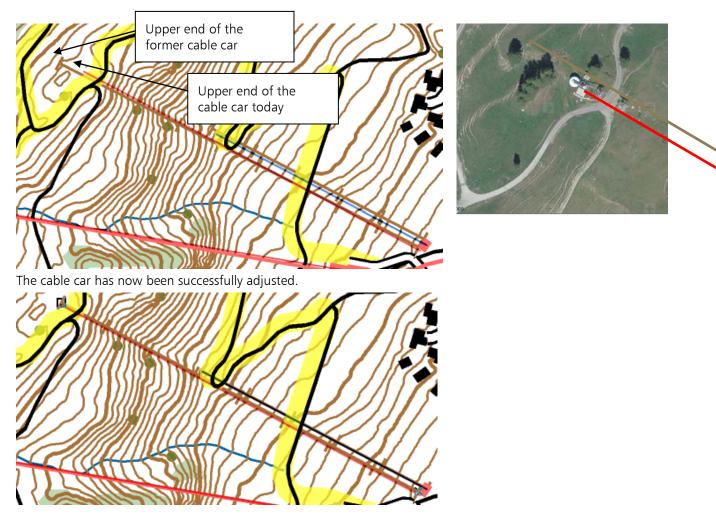
On the loaded WMS layer you can see cable cars as red lines and ski lifts as blue lines. Zoom in to the part of the map near Celerina.

Use the Zoom in locked $\overline{\mathbf{Q}}$ function and drag the desired area on the map.



You can load an aerial photo as a reference. Open the background map Celerina.tif (Backgroundmap \rightarrow Open).

Select the cable car and place it correctly.



You can now hide the background map. (Background Map \rightarrow Manage...)

V	F	Dim	Т	Assign to spot color	B File name	I
•	• ©	0 0 0			Click here to hide the background maps	GIS-Daten\St Moritz_ocad\C(👔 :a\Roaming\OCAD\OCAD11\[🚆 p\tmp\St Moritz_leer_Hill Sha(🔒

 \rightarrow Close

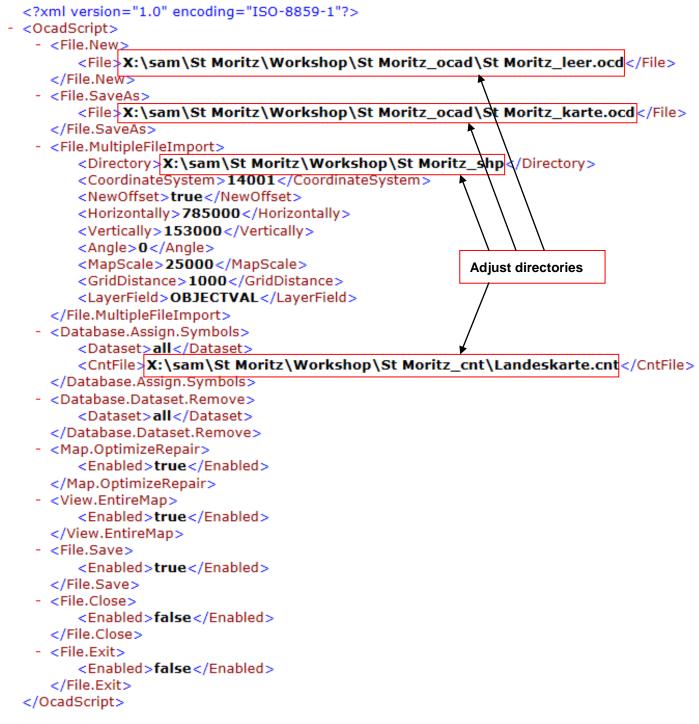
13 XML Script

All the steps from chapter 1 to 3 can be replaced by the execution of an XML Script.

Open any text editor e.g. *Windows Editor* and open the file *St Moritz_xml_Vorlage* from the directory *St Moritz_xml*.

```
V\Dellserver\exchange\sam\St Moritz\Workshop\St Moritz_xml\St Moritz_xml_Vorlage.xml - Notepad++
\underline{D}atei \underline{B}earbeiten \underline{S}uchen <u>A</u>nsicht <u>K</u>odierung Sprachen <u>E</u>instellungen <u>M</u>akro Ausführen Erweiterungen Fenster <u>?</u>
 🕞 🚽 🔚 🐃 💫 🕹 🕹 👘 👘 🍃 唑 🕯 🎍 🔍 🔍 🖫 💁 🕄 🚛 🌆 😰 🖉 🖉
St Moritz_xml_Vorlage xml
      <?xml version="1.0" encoding="ISO-8859-1"?>
  1
     -CocadScript>
  3
  4
     <File.New>
  5
           <File>X:\sam\St Moritz\Workshop\St Moritz ocad\St Moritz leer.ocd</File>
  6
         </File.New>
  7
  8 🖨 <File.SaveAs>
           <File>X:\sam\St Moritz\Workshop\St Moritz ocad\St Moritz karte.ocd</File>
  9
  10
        </File.SaveAs>
  11
 12
        <File.MultipleFileImport>
 13
          <Directory>X:\sam\St Moritz\Workshop\St Moritz_shp</Directory>
  14
           <CoordinateSystem>14001</CoordinateSystem>
 15
           <NewOffset>true</NewOffset>
 16
          <Horizontally>785000</Horizontally>
 17
          <Vertically>153000</Vertically>
  18
           <Angle>0</Angle>
 19
          <MapScale>25000</MapScale>
 20
          <GridDistance>1000</GridDistance>
 21
           <LayerField>OBJECTVAL</LayerField>
 22
         </File.MultipleFileImport>
 23
 24 🗧 <Database.Assign.Symbols>
 25
           <Dataset>all</Dataset>
 26
           <CntFile>X:\sam\St Moritz\Workshop\St Moritz_cnt\Landeskarte.cnt</CntFile>
 27
        </Database.Assign.Symbols>
 28
 29 🗧 <Database.Dataset.Remove>
 30
           <Dataset>all</Dataset>
 31
         </Database.Dataset.Remove>
 32
  33
     <Map.OptimizeRepair>
  34
           <Enabled>true</Enabled>
 35
       </Map.OptimizeRepair>
 36
  37
     <View.EntireMap>
 38
           <Enabled>true</Enabled>
 39
        </View.EntireMap>
 40
  41
     File.Save>
 42
           <Enabled>true</Enabled>
 43
       </File.Save>
 44
  45
         <File.Close>
 46
           <Enabled>false</Enabled>
 47
         </File.Close>
 48
     <File.Exit>
  49
 50
           <Enabled>false</Enabled>
 51
         </File.Exit>
      </OcadScript>
 52
```

This is an OCAD XML Script for the import of multiple shape files and the assignment of the symbols according to the database records. However, before you are using this XML Script, you first have to adjust its directories.



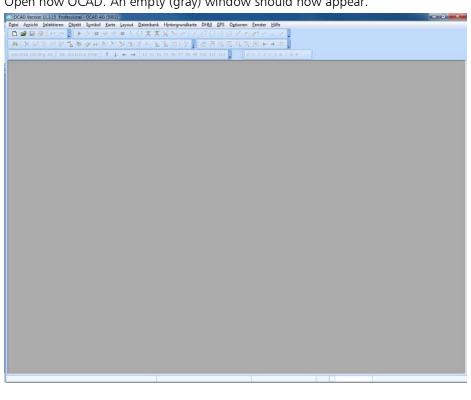
Save the document under the name St Moritz_xml_1. (File \rightarrow Save as...)

If you change something on the XML Script, save the new Script always under a new name. If you just overwrite the old XML Script and try to open it, the XML parser will execute the old, cached edition.

📔 Save As			×		
Save in:	👪 St Moritz_xml 👻	G 🌶 🖻 🖽			
(Fa	Name	Date modified	Туре		
	St Moritz_karte	24.10.2013 17:03	OCD File		
Recent Places	🔮 St Moritz_xml Demo ConvertLayer DatasetsR	24.10.2013 17:01	XML Doc		
	St Moritz_xml Demo ConvertLayer	24.10.2013 16:59	XML Doc		
	St Moritz_xml Demo Database	24.10.2013 10:39	XML Doc		
Desktop	St Moritz_xml Demo	24.10.2013 10:32	XML Doc		
-	St Moritz_xml	23.10.2013 19:42	XML Doc		
6 3	St Moritz_xml_Vorlage	20.12.2013 10:57	XML Doc		
Libraries					
Computer					
	< III		•		
Network					
	File name: St Moritz_xml_1		Save		
	Save as type: eXtensible Markup Language file (* xml;* xsml;*. ▼ Cancel				

\rightarrow Save

Open now OCAD. An empty (gray) window should now appear.



File → Execute XML Script... Open the saved file St Moritz_xml_1.xml from the directory St Moritz_xml.

Organize ▼ New folder 8== ▼				
 Libraries Documents Music Pictures Videos 	*	Name St Moritz_xml Demo ConvertLayer Datase St Moritz_xml Demo ConvertLayer St Moritz_xml Demo Database St Moritz_xml Demo St Moritz_xml St Moritz_xml St Moritz_xml_1	Date modified 24.10.2013 17:01 24.10.2013 16:59 24.10.2013 10:39 24.10.2013 10:32 23.10.2013 19:42 09.01.2014 09:44	Type XML Docu XML Docu XML Docu XML Docu XML Docu XML Docu
Computer Local Disk (C:) data (\\Dellserver exchange (\\Dells interbase (\\Dells		St Moritz_xml_Vorlage	20.12.2013 10:57	XML Doct



OCAD now executes the XML Script, which will take a moment.

The executed processes are:

- Open OCAD file
- Import shape files
- Assign symbols
- > Save OCAD file

The created OCAD file was saved under the name *St Moritz_karte.ocd* in the directory *St Moritz_ocad.*

