

TiM

User's User Guide

Version 3.2
8.03.2022



What is TiM ?

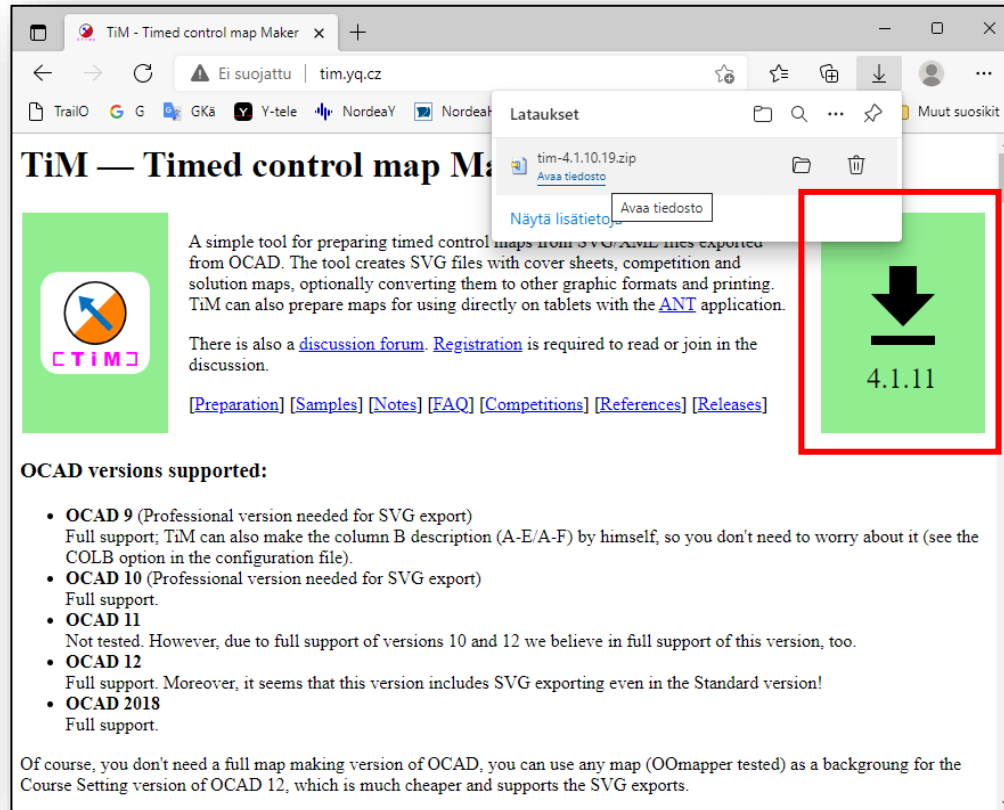
- **TiM** is a software tool developed by **Libor Forst**. You use TiM to create special formatted task maps for TrailO Timed controls (stations).
- To use TiM, you need OCAD mapping software to prepare course designs. The following OCAD versions may be used together with TiM:
 - OCAD 9 (Minimum requirement is the Professional version)
 - OCAD 10 and 11 (Min. Professional version)
 - OCAD 12 (Min. Course Setting version)
 - OCAD 2018 - 2020 (Min. Course Setting version)
- This Guide instructs You to:
 - download TiM and related tools from the Web
 - install TiM on Your computer
 - create a new Course Setting template for TiM
 - design and print the timed control task maps using TiM and OCAD
 - produce and print Solution maps
- All examples in this Guide have been created using **OCAD 2020** running on **Windows 11**.
- Readers of this document are expected to have basic skills of **Windows** and **OCAD**.

Part 1

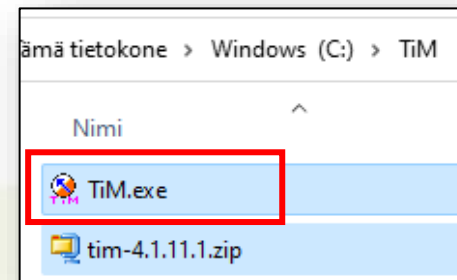
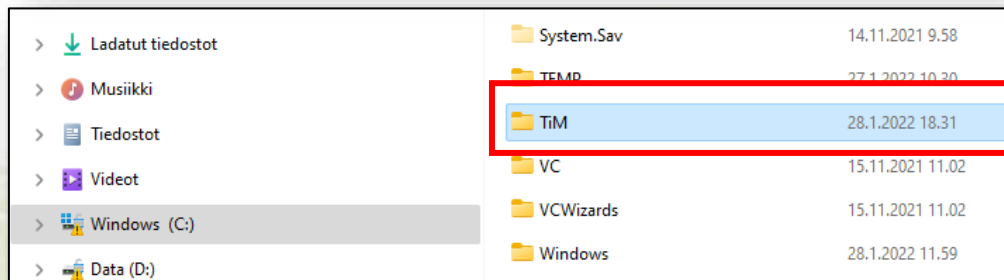
Installation and Setup



Installing TiM software



- Create an installation folder for TiM. It can be placed on the root **C:** disk or some other proper location on Your hard disk. Here **C:\TiM**.
- Go to <http://tim.yq.cz/>
- Select the green download icon and the **TiM installation package** is downloaded to the **Downloads** folder on your computer.
- Move the installation package (**tim-4.1.11.*.zip**) to the folder You created earlier.
- Unzip the installation package and **TiM.exe** will appear in the directory.
- You may create a **TiM shortcut icon** on the Desktop.
- You may also attach TiM to the **Taskbar**.



TiM symbol files for OCAD

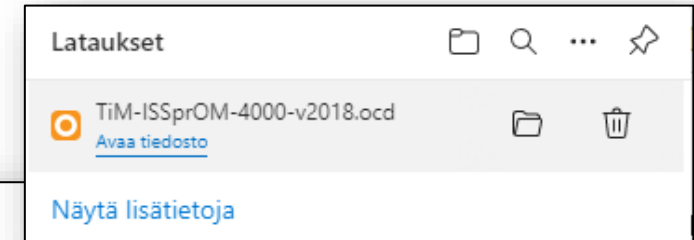
- Download the TiM specific OCAD Course Design symbol set from these links:

[ISSprOM 1:4000 OCAD v2018](#) for OCAD 2018 and above

[ISSprOM 1:4000 OCAD v9](#) for OCAD 9 -12

[ISSOM 1:4000 OCAD v9](#) for OCAD 9 and above

[ISSOM 1:5000 OCAD v9](#) for OCAD 9 and above



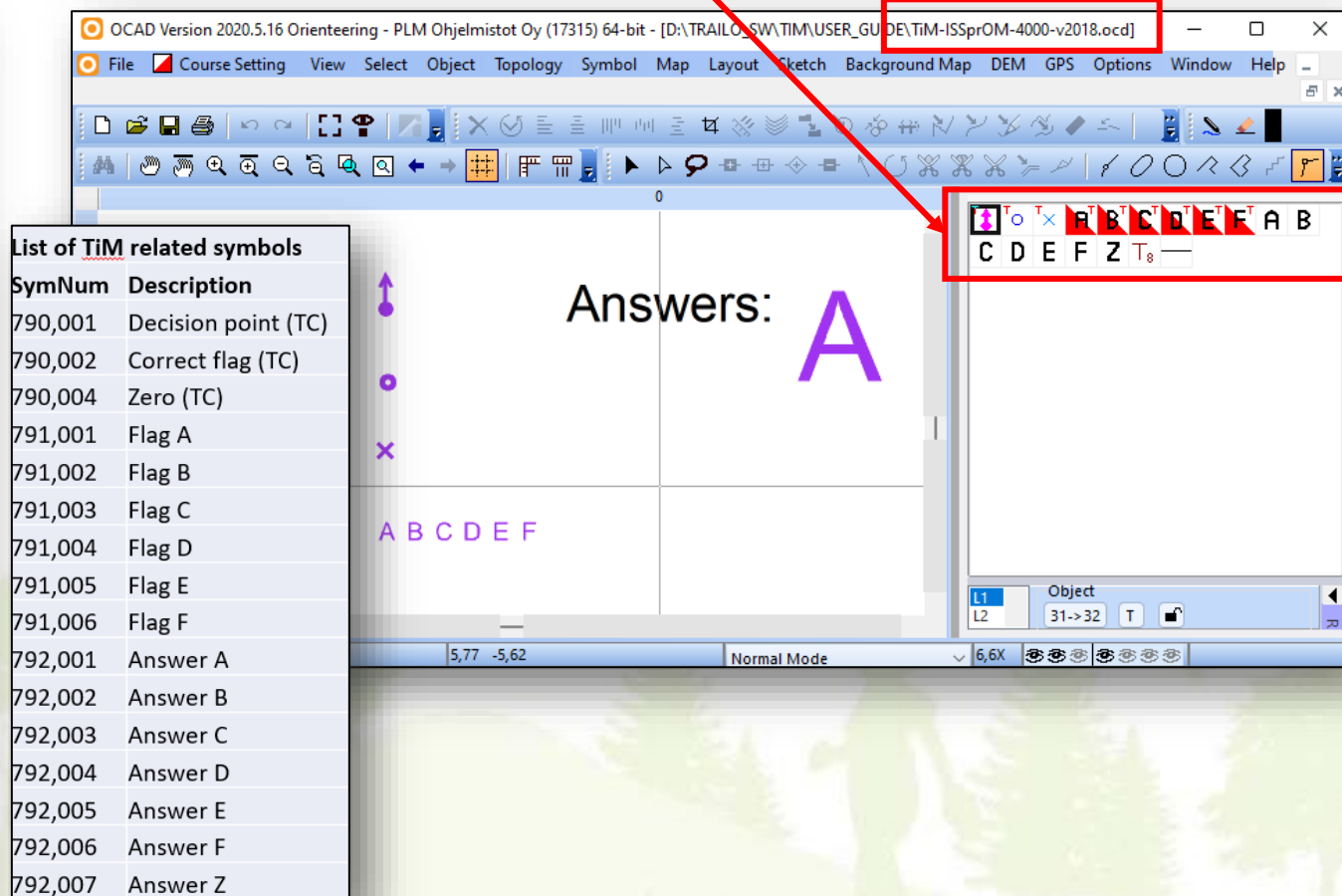
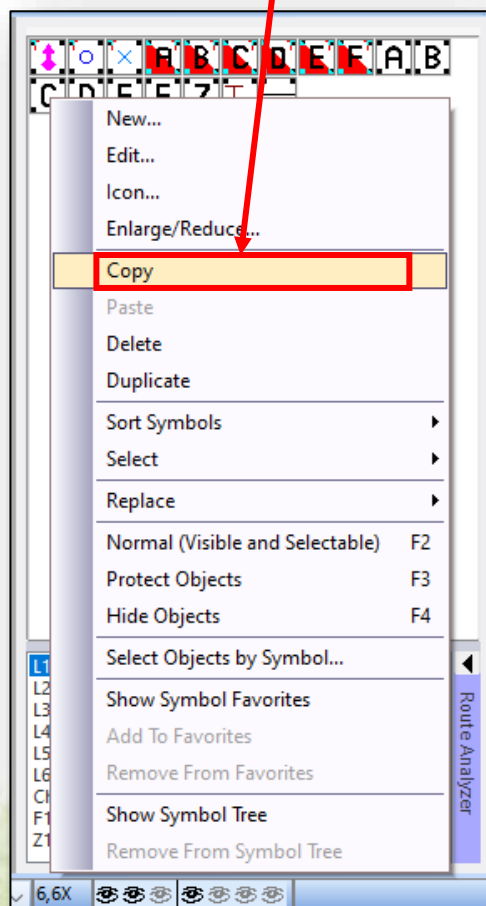
Input samples:

- A sample OCAD file with chair, flag, zero, flag letter and answer letter symbols. **WARNING! This file is new for the 4.1.10 version.** If you have an older one, you should use this, or change all additional course setting symbols (chair, flags and flag letters) to Finnish type. **WARNING! Do not rotate the chair symbol! TiM will do it by himself... :-)**
 - [ISSprOM 1:4000 OCAD v2018](#)
 - [ISSprOM 1:4000 OCAD v9](#)
 - [ISSOM 1:4000 OCAD v9](#)
 - [ISSOM 1:5000 OCAD v9](#)
- A [sample OCAD event files](#) (map and course prepared for TiM maps + solutions).
- Zipped directory with demo OCAD exports ([STAT mode](#)).
Unzip the directory and drag-and-drop the stat/tim-4.1.10.cfg file onto TiM program icon, or start TiM, use the File→New menu item and select the unzipped directory to create your configuration from scratch.
- Zipped directory with demo OCAD exports ([TASK mode](#)).
Unzip the directory and drag-and-drop the task/tim-4.1.10.cfg file onto TiM program icon, or start TiM, use the File→New menu item and select the unzipped directory to create your configuration from scratch.
- Configuration samples for making maps for [ANT](#), version for [7"](#) and [9"](#) tablets.

- The symbol set includes **the special symbols required by TiM (mandatory)**.
Symbol set scale is 1:4000 for ISSprOM.
- Place the symbol set in the installation folder created before

Combining the TiM symbols to the IOF ISSprOM2019 symbol set

- Open the downloaded TiM symbol set in OCAD and You'll see the TiM specific symbols in the symbols area
- Select all the symbols (use Shift or Ctrl on keyboard)
- Then select the **Copy** command (right mouse button) and the symbols are copied to the Windows Clipboard



List of TiM related symbols	
SymNum	Description
790,001	Decision point (TC)
790,002	Correct flag (TC)
790,004	Zero (TC)
791,001	Flag A
791,002	Flag B
791,003	Flag C
791,004	Flag D
791,005	Flag E
791,006	Flag F
792,001	Answer A
792,002	Answer B
792,003	Answer C
792,004	Answer D
792,005	Answer E
792,006	Answer F
792,007	Answer Z

Combining the TiM symbols to the IOF ISSprOM2019 symbol set

- Then open the standard IOF file

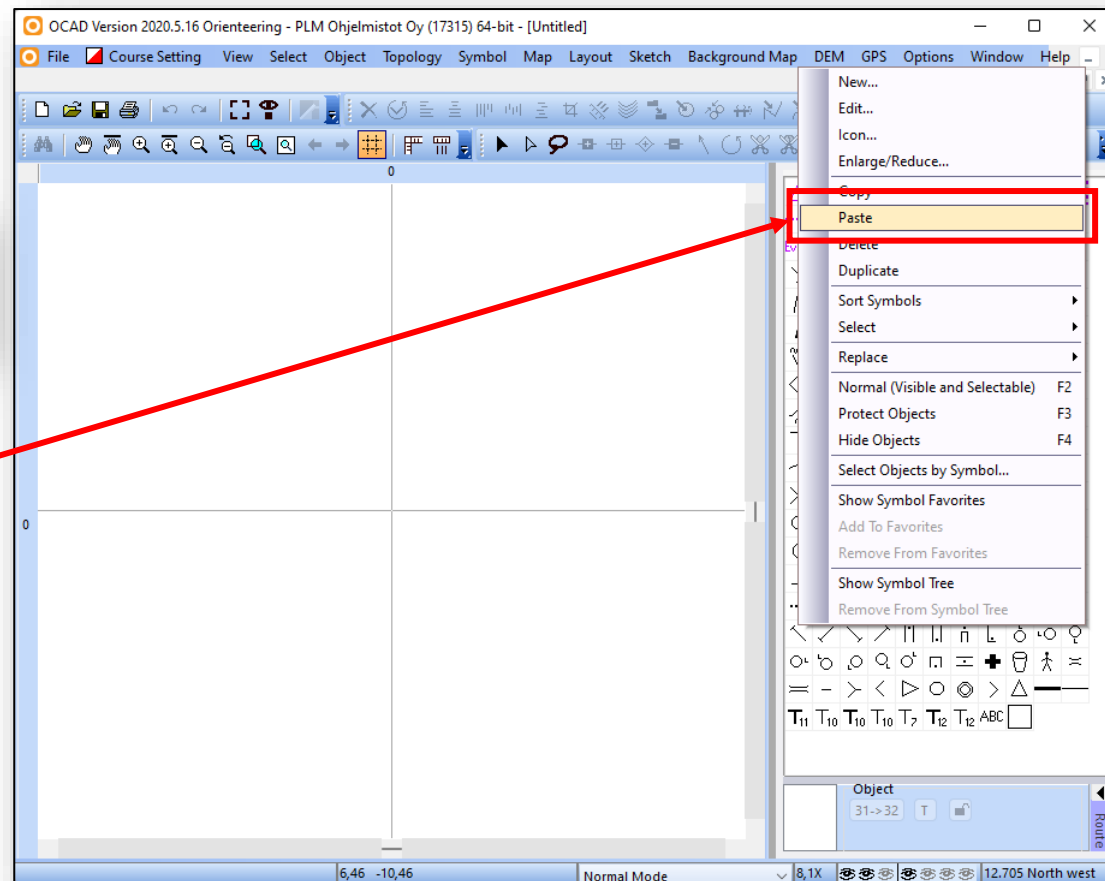
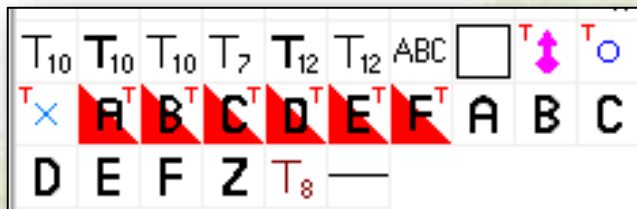
Course Setting 4 000 ISCD 2018 - ISSprOM 2019.ocd

Course Setting 10 000 ISCD 2018 - ISOM 2017.ocd
Course Setting 15 000 ISCD 2018 - ISOM 2017.ocd
Course Setting 4 000 ISCD 2018 - ISSprOM 2019.ocd
Course Setting ISMTBOM 2022 15 000.ocd
Course Setting ISMTBOM 2022 5 000.ocd
Course Setting ISSkiOM 2019 10 000.ocd

- Place the cursor on top of the symbol area and with right mouse button select **Paste**
- The TiM Symbols appear in the symbol area

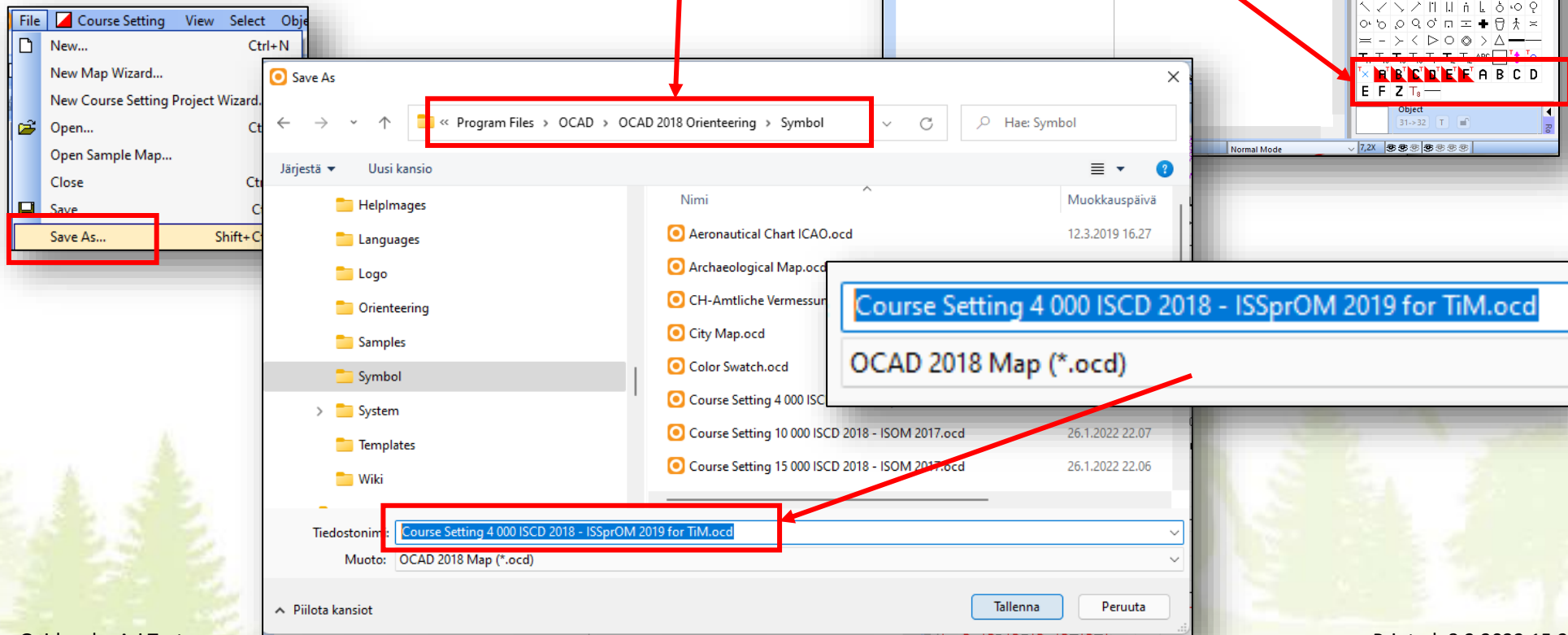


- If You wish, You may move the TiM symbols to the end of the symbols set or any other place You see practical for Your needs



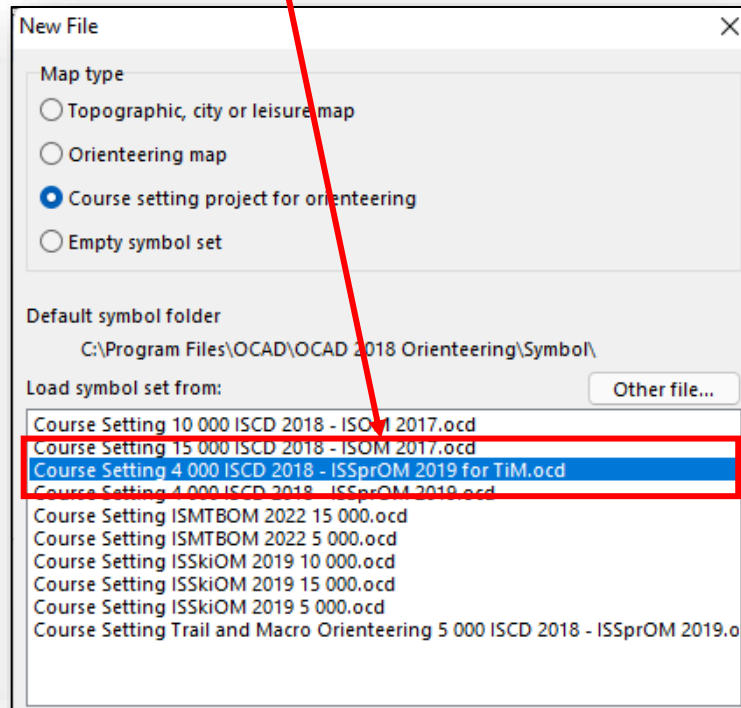
Combining the TiM symbols to the IOF ISSprOM2019 symbol set

- Now the TiM symbols are combined with standard ISSprOM Course Setting symbols and You can start design work for the TempO stations using TiM
- Store this combined file as a new OCAD template if You do not want to do this copy operation again and again....
- To do this, select **File > Save As...** and give a proper name for the new file. Place the file in the OCAD **Symbol** directory

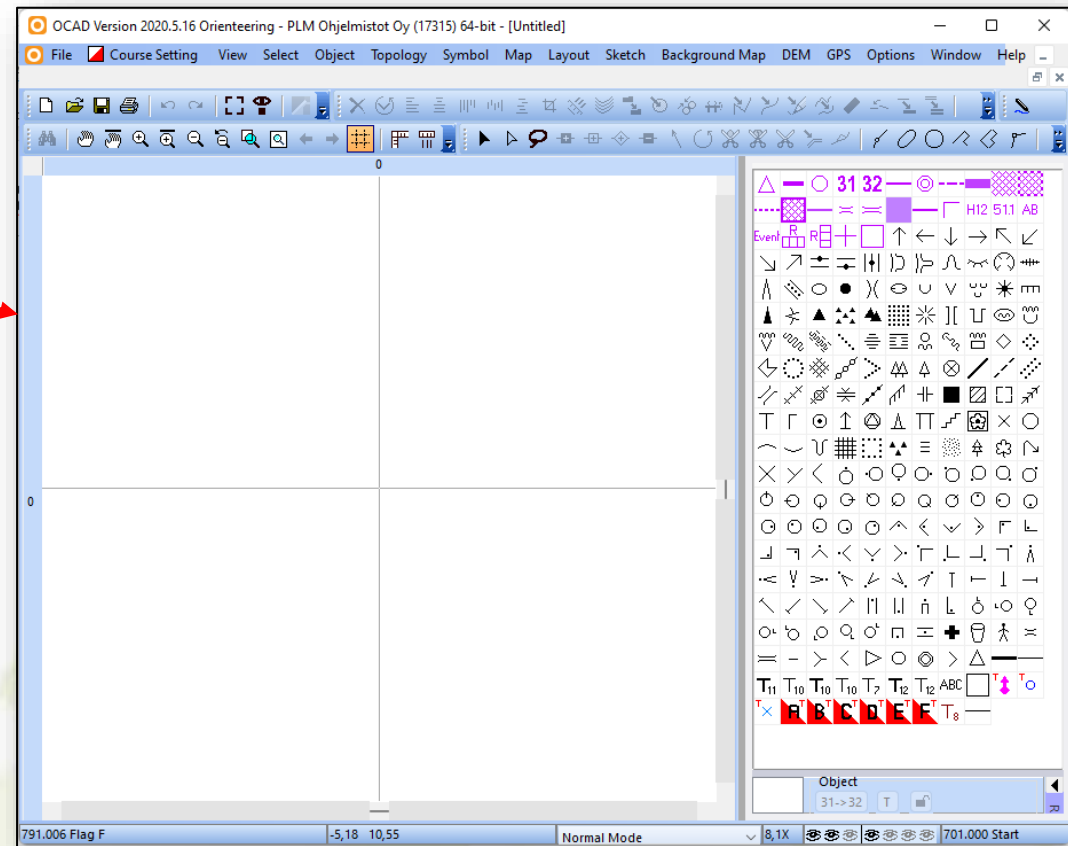


Using the TiM version of the IOF ISSprOM2019 symbol set

- Next time when You create a new station (course) design, You can open this new template file for the basis of Your work

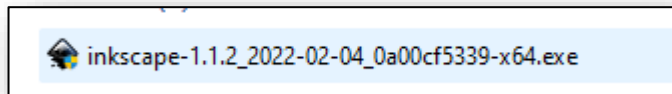


TiM Setup is now ready.

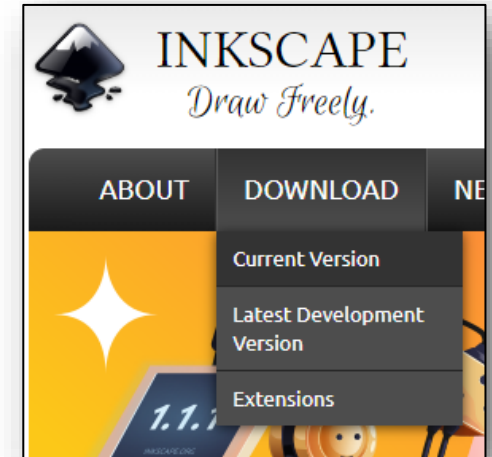
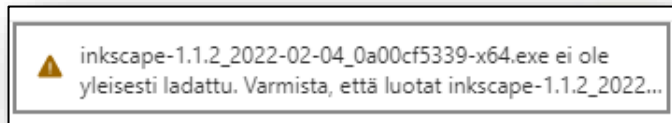


Installing PDF and PNG saving option – Inkscape.exe

- By default TiM creates task maps as **.SVG** files
- TiM has an extension option to create maps in **.PDF** and **.PNG** formats, which produce better paper prints for laminated maps
- Install **Inkscape** software to create .PDF and PNG files from TiM as follows:
- Download Inkscape from <https://inkscape.org/>
- Select "**Download / Current Version**"
- Select "**Windows**"
- Select "**64-bit architecture**"
- Download starts and the package appears in the **Downloads** directory:

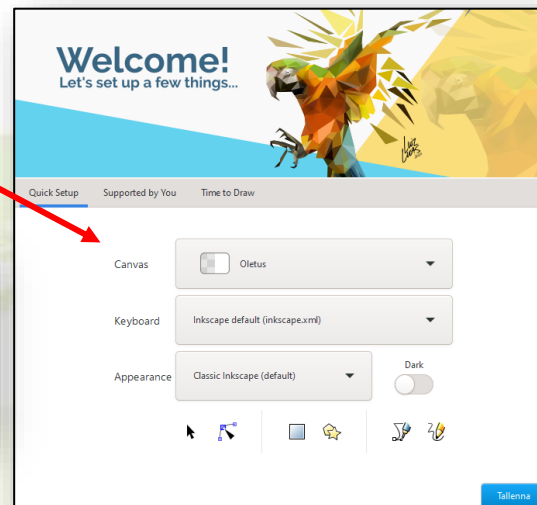
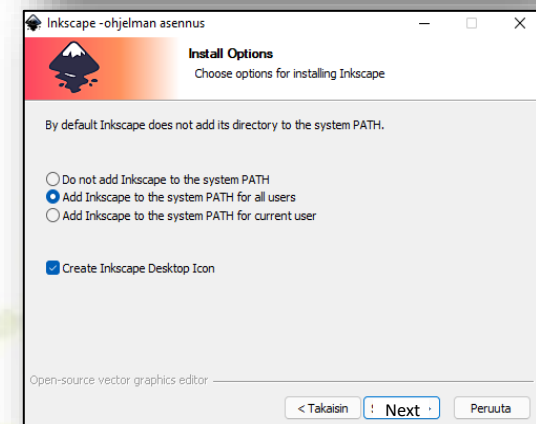
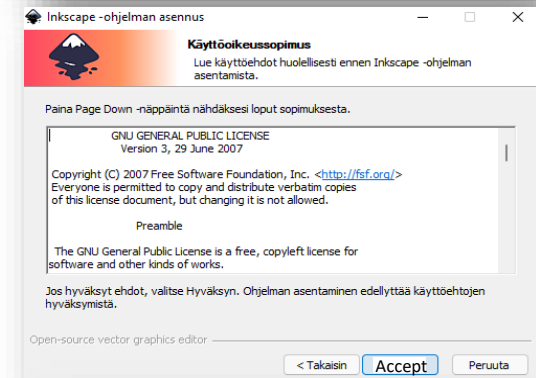
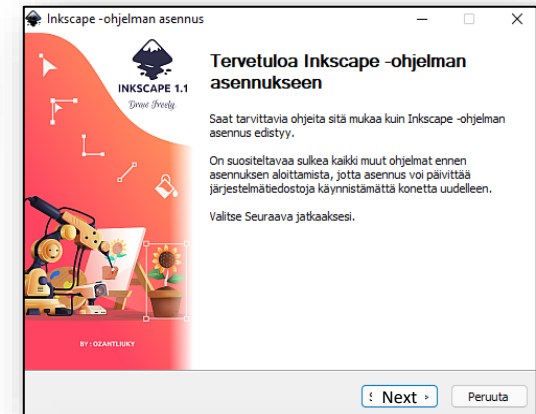
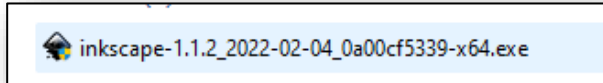


- Security issues may appear during download – tell Windows that package is safe (this varies depending of the Windows version)



Installing Inkscape

- Start the Inkscape installation package
- Accept possible security warnings
- Select **"Next"**
- Accept the license agreement, select **"Accept"**
- Check the **"PATH"** option and **"Desktop Icon"** option as shown below
- Select **"Next"**
- Accept destination folder option **"C:\Program Files\Inkscape"**
- Select **"Next"**
- Select **"Next"** again
- Accept the components to be installed and select **"Install"**
- Installation takes about half minute, then select **"Finish"**
- Inkscape is now ready to use
- **Start Inkscape** from the Icon and finalize required **Setup steps**
- **Close Inkscape**



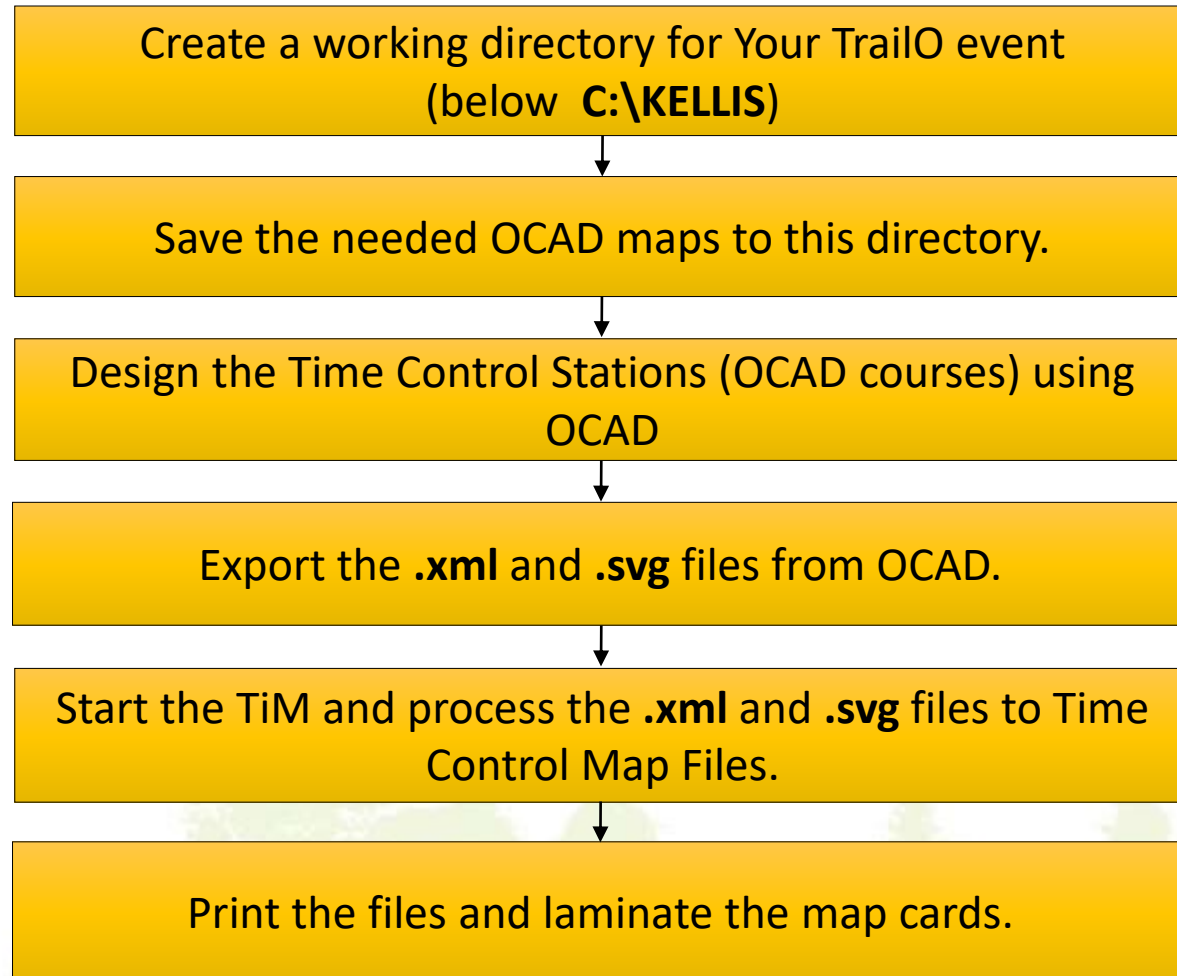
Part 2

Course Design and Map production



The TiM process

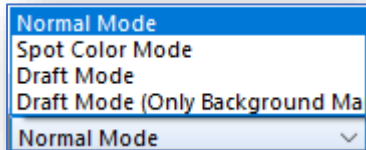
- Follow these steps to create Your Time Control maps using the TiM.



The Base Map

- Create a working directory for Your event (in this example **C:\KELLIS**)
- Copy there the base map, that You use for this event (in this example **KELLIS_4000.ocd**)
- Start OCAD and open the base map (**KELLIS_4000.ocd**)

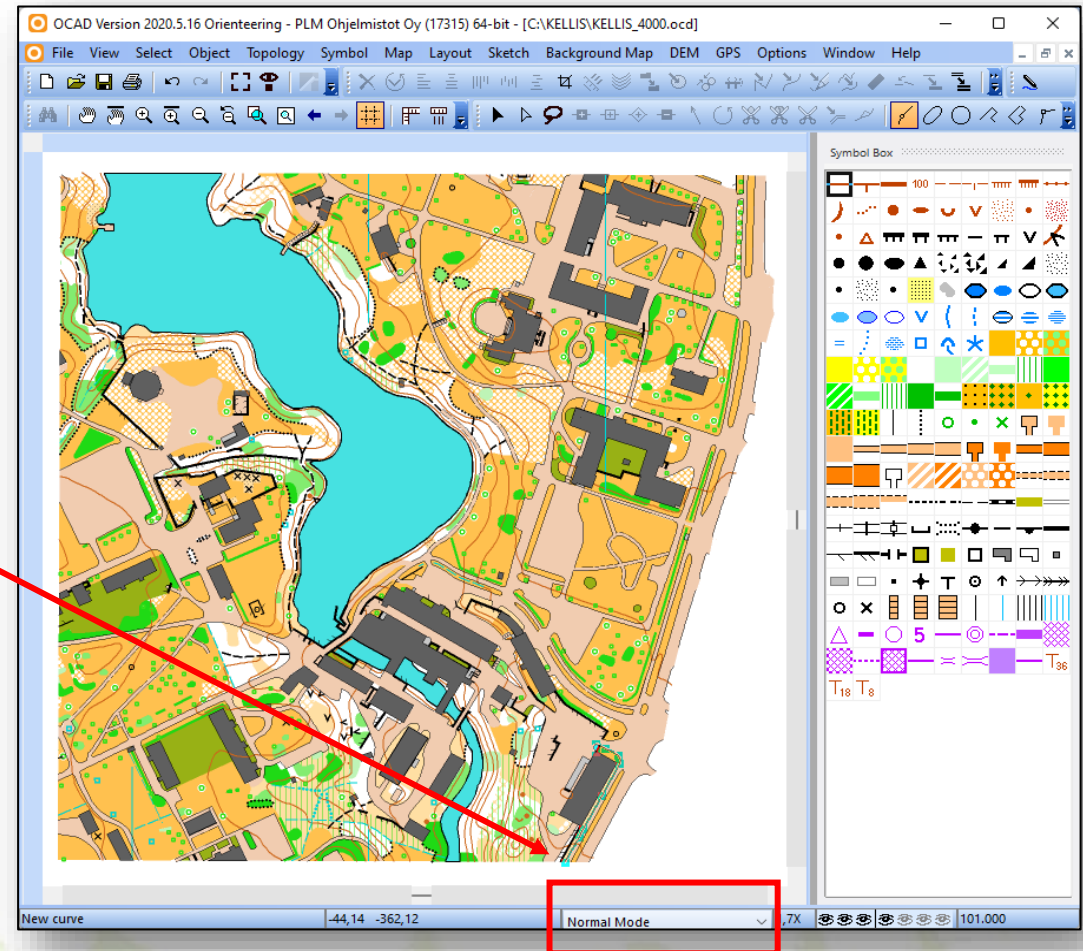
Please check that the base map has been saved in **Normal Mode**



Please check !!

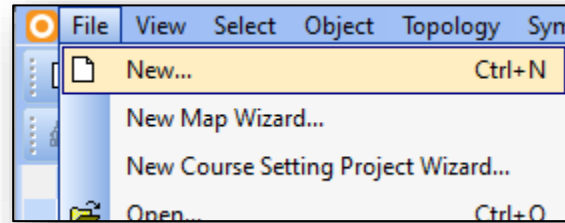
Before starting the course design work using OCAD and TiM, please check/verify that Your base map does not have non-standard mapping symbols with number **790.***** or **792.*****

These OCAD Symbol series are reserved for TiM use.

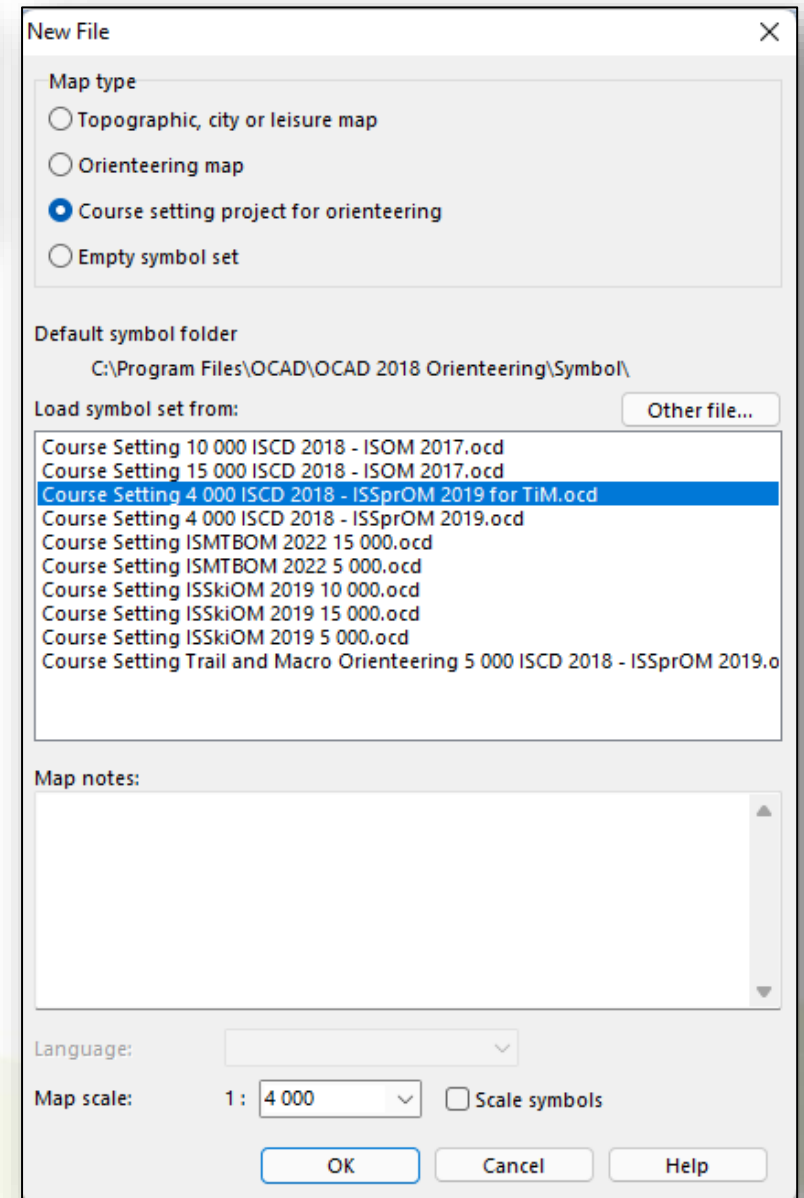


Copyright to the Kellis map is owned by Tuusulan Voima-Veikot, Finland

Initiating Course Design

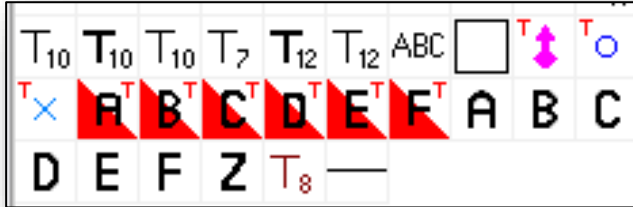


- Select **File** and **New...**
- Select **Course Setting 4000 ISCD 2018 – ISSprOM 2019 for TiM.ocd**
- Select **Ok**

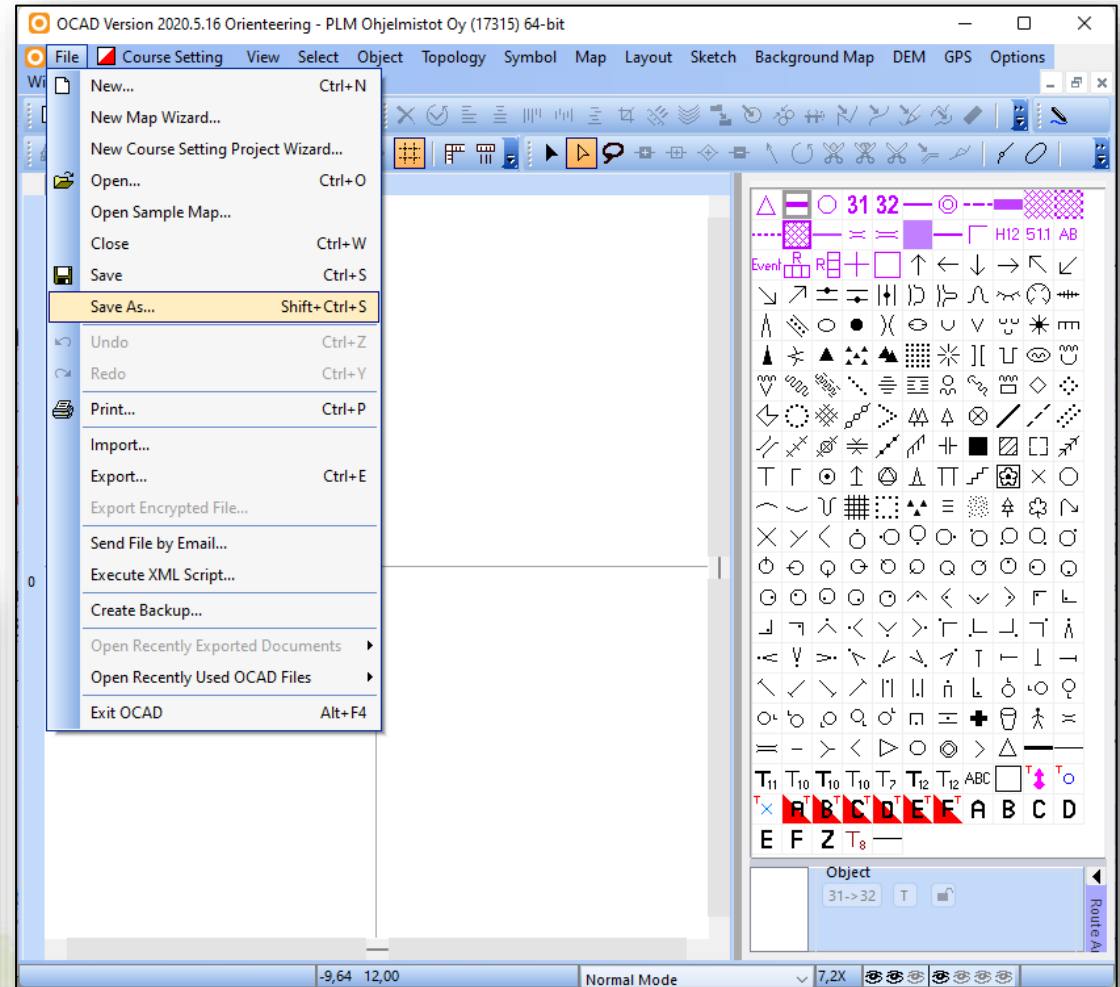
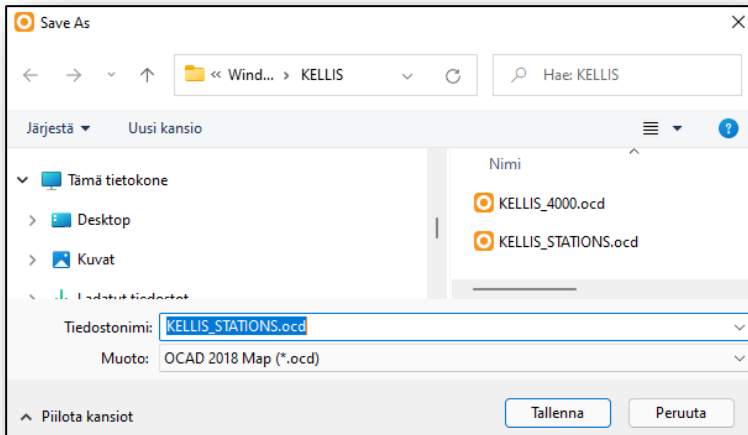


Saving the Course Design Map

- The course design template opens in OCAD
- The TiM specific symbols are now included in Your course setting map

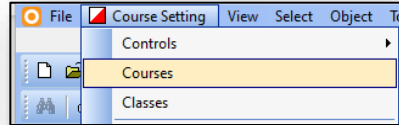


- Save the template to file with proper name (here **KELLIS_STATIONS.ocd**)



Creating the Stations

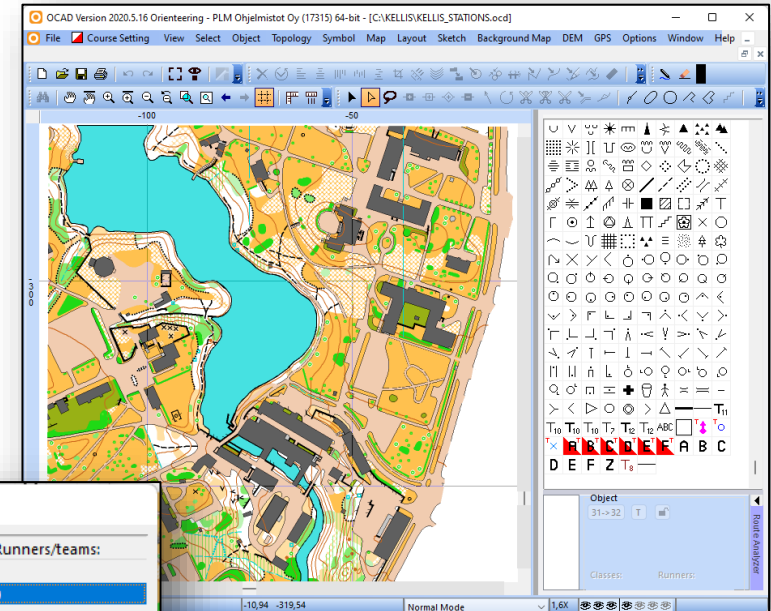
- Open the competition map (**KELLIS_4000.ocd**) as a background for the course setting map
- Specify the needed courses – every timed control station will be one course



- Here we use courses **Station_1** and **Station_2**
- Select **Close** to save the two courses

Course:	Length:	Extra length:	Climb calculated:	Climb used:	Number of controls	Course type:	Legs:	Runners/teams:
[km]	[km]	[m]	[m]					
Station_1	0.00	0.00	0	0	0	Normal course		0
Station_2	0.00	0.00	0	0	0	Normal course		0

Buttons: Add, Delete, Duplicate, Report..., Close, Help

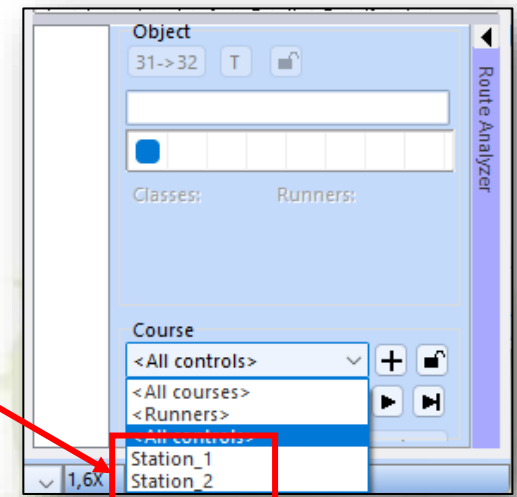


- Now the two stations are visible in the Course specification area

Important Note !!

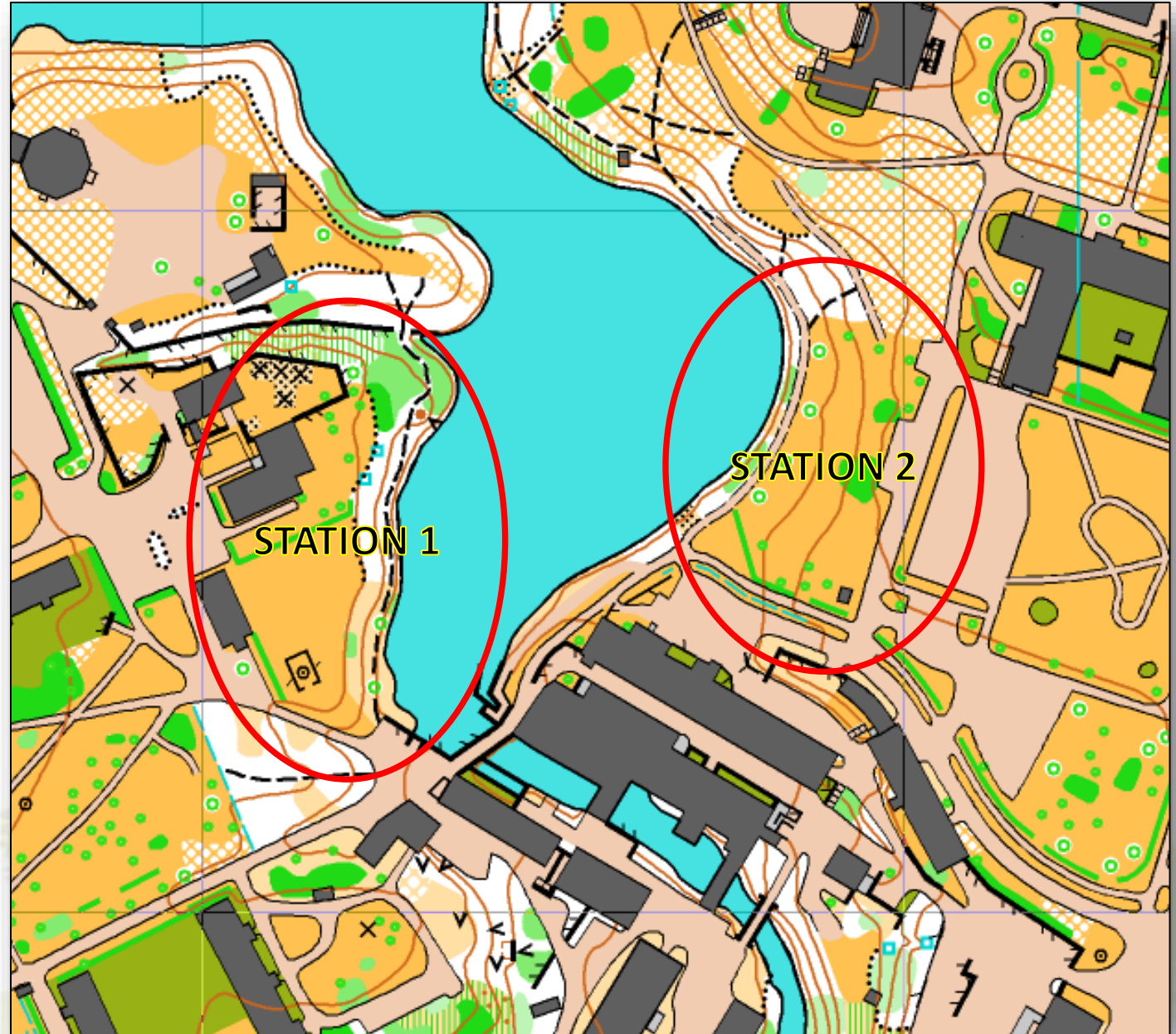
The Course names must follow the same schema. They can differ only in the number part.

Station_1 <> **Station_2**



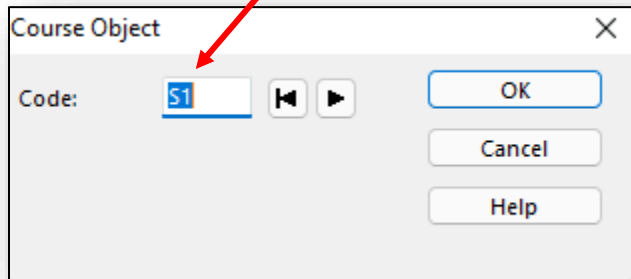
Creating the Stations

- We'll design two TempO stations in the areas specified on the map



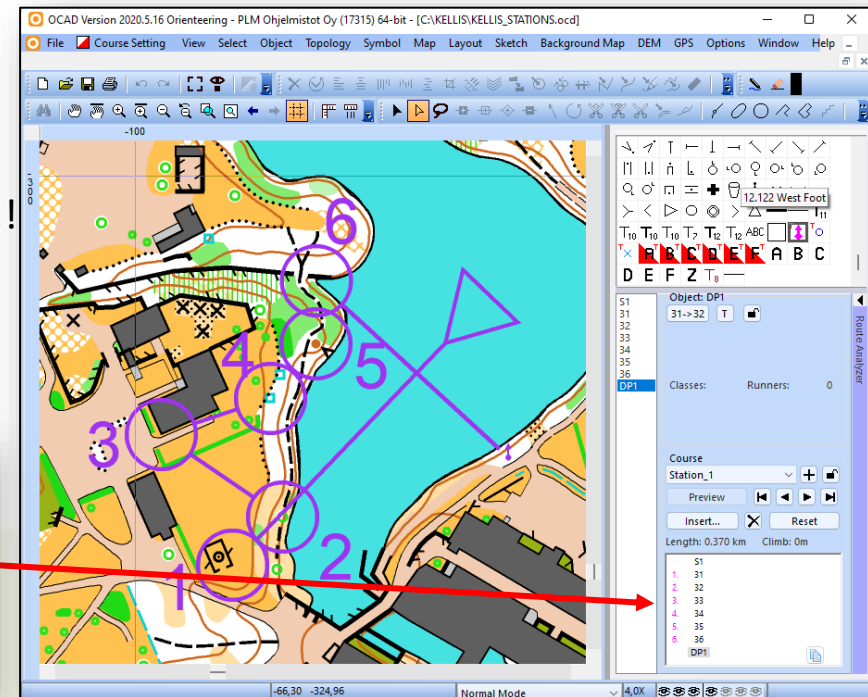
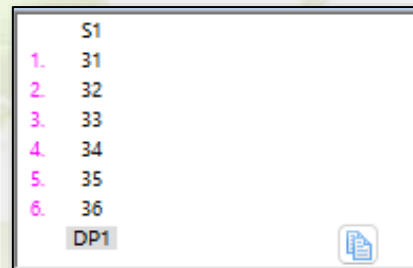
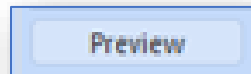
Specify the Start

- You need to specify a Start for TiM.
- Single Start can serve all the Stations (Courses)
- Place the OCAD Start symbol somewhere in the neighbourhood of the stations.
- Here we specify **S1**



STATION_1

- Station (Course) **STATION_1** has six flags (controls) and also six (6) tasks. The flags have names from A to F
- Place these six first controls (typically numbers 31 – 36) on the map as on an usual orienteering course
- Create the control descriptions for each control
- Then place the **TiM Decision Point** symbol (**790.001**) on the location of the Chair. Do not rotate the Decision Point symbol – TiM will take care of that !!!
- Then open course **Station_1** for editing
- Attach Start (**S1**) to the course, then controls **31 – 36** and then the decision point (**DP1**) for this first station
- The course **Station_1** should now have the following eight (8) elements:
 - Start S1
 - Controls (tasks) 31 - 36
 - Decision point DP1
- The order of elements within the course is very important !!
- Use the **Preview mode** to position the Control numbers such that they look good in the solution map. Remember that the station view will be rotated in the solution map.



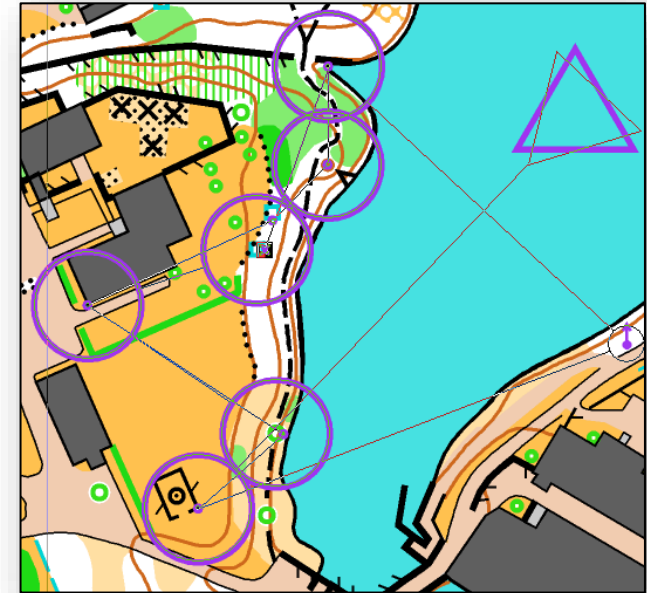
STATION_1 – placing flag & zero symbols

- Next step is to place the flags and optional zero locations on the map
In this example we design one zero answer among the tasks (the well)
- The main usage of these symbols is to create the **Solution Maps** automatically
- A flag location in terrain is marked using symbol **790.002**
- A zero location is marked using symbol **790.004**
- When the symbols are ok, attach them to end of Course: **STATION_1**
- The course specification for **STATION_1** looks like this:
 - Start S1
 - Six control points 31-36
 - Decision point DP1
 - Six flags F11 – F16
 - One Zero location Z11
- We have now quite a few symbols on the map – don't worry – TiM will handle it easily

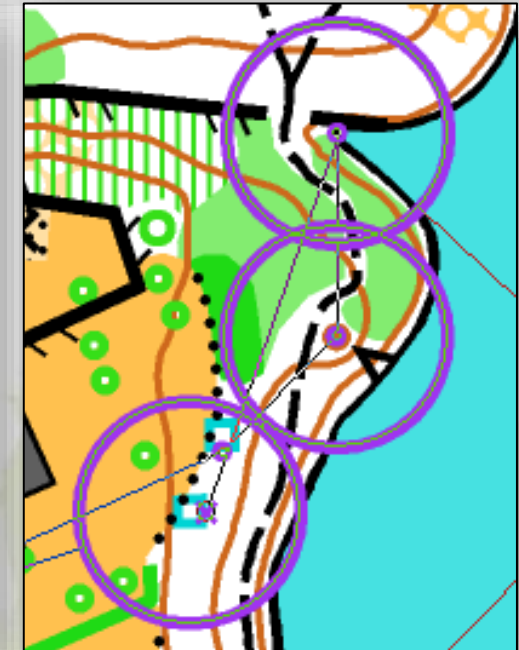
We used the following naming schema:

Flags "F" + Station_number + Flag_number

Zeros "Z" + Station_number + Zero_number

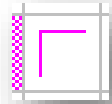


	S1
1.	31
2.	32
3.	33
4.	34
5.	35
6.	36
	DP1
	F11
	F12
	F13
	F14
	F15
	F17
	<u>Z11</u>



STATION_1 – placing the Control Description Grid

- TiM uses the OCAD control description grid to create the task maps
- Place the control description grid placeholder (symbol **720.000**) on the course design map
- Place the placeholder somewhere quite near to the control circles – no problem if they even overlap
- **Note that one grid serves all the stations (courses) !!**
- The grid for STATION_1 controls looks like this



and the map like this

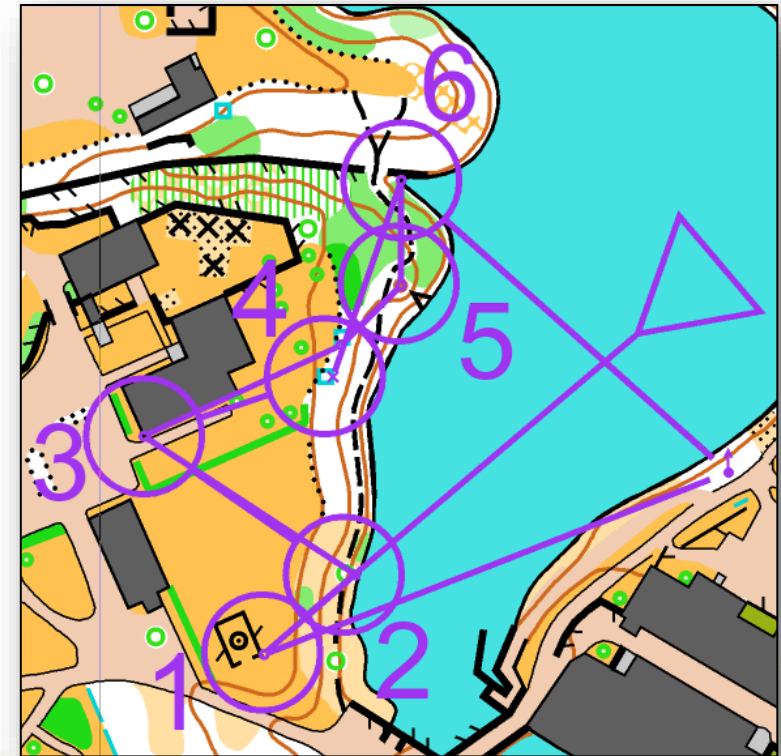
Start

Controls (Tasks)

Decision point
(shown as Finish symbol)

Flag and zero symbols
(all shown as Finish
symbols)

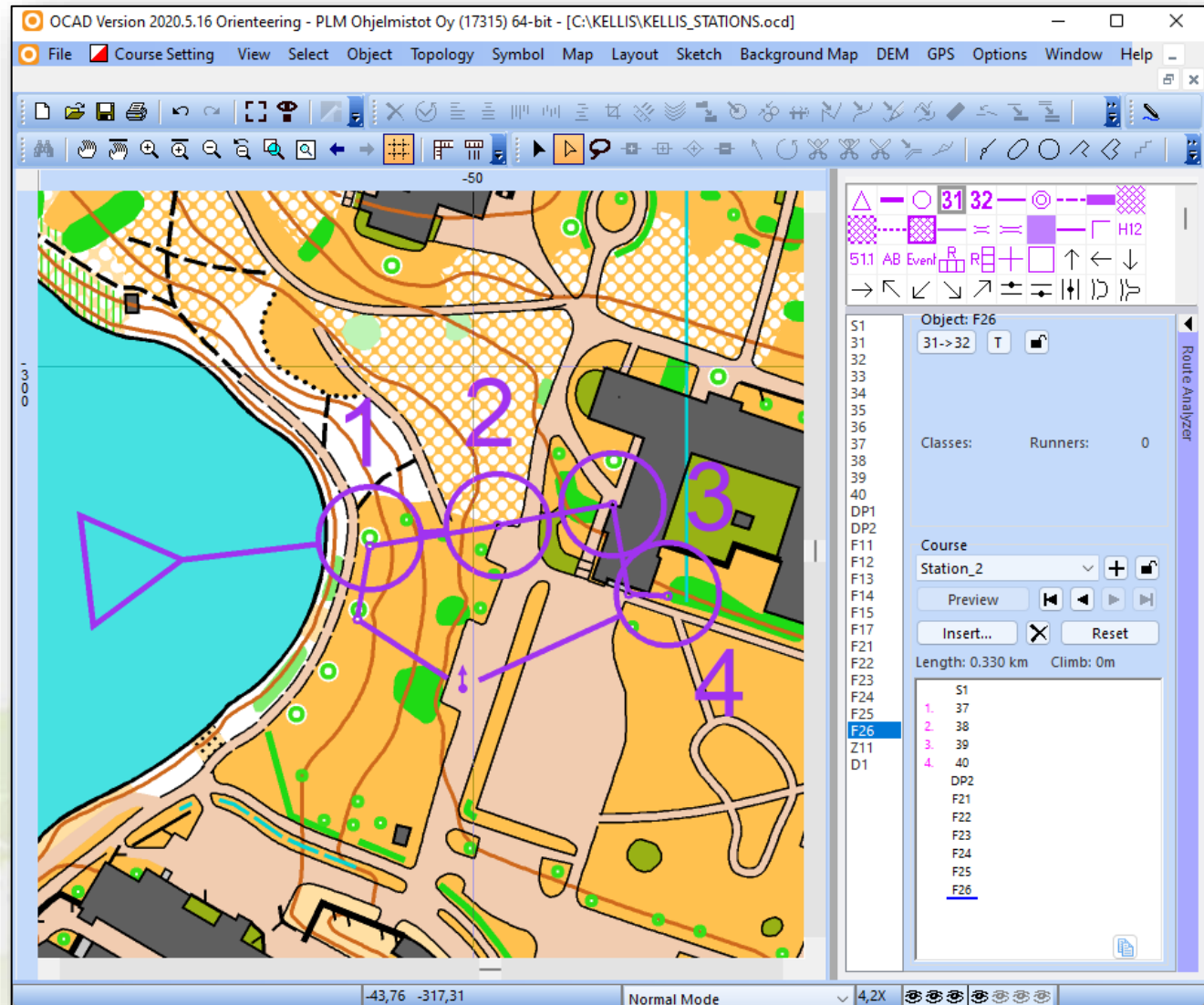
Station_1		0,7 km			
▶					
1	31	↗			➤
2	32	↑			○
3	33	■			▼
4	34	⊙			○
5	35	●			
6	36	⊖			⊖
OK	90 m				➤
OK	100 m				➤
OK	30 m				➤
OK	50 m				➤
OK	50 m				➤
OK	20 m				➤
OK	20 m				➤
OK	40 m				➤



STATION_2

- Station **STATION_2** has six flags and four tasks, no zero answers (typical PreO Timed Control setup)
- Follow the same principles as with **STATION_1** and place the controls and create control descriptions
- Use same Start as for **STATION_1**
- **STATION_2** looks like this:
 - Start S1
 - Controls (tasks) 37-40
 - Decision point DP2
 - Flags F21-F26

	S1
1.	37
2.	38
3.	39
4.	40
	DP2
	F21
	F22
	F23
	F24
	F25
	<u>F26</u>

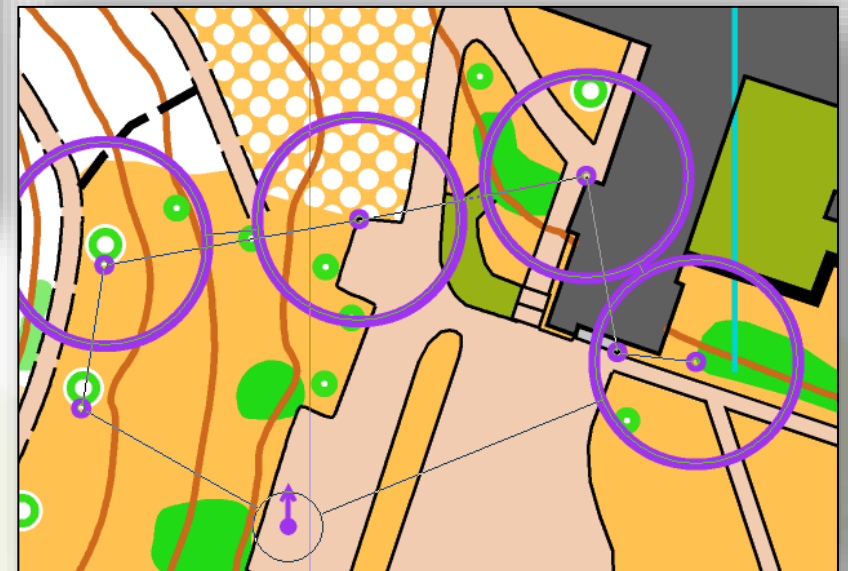
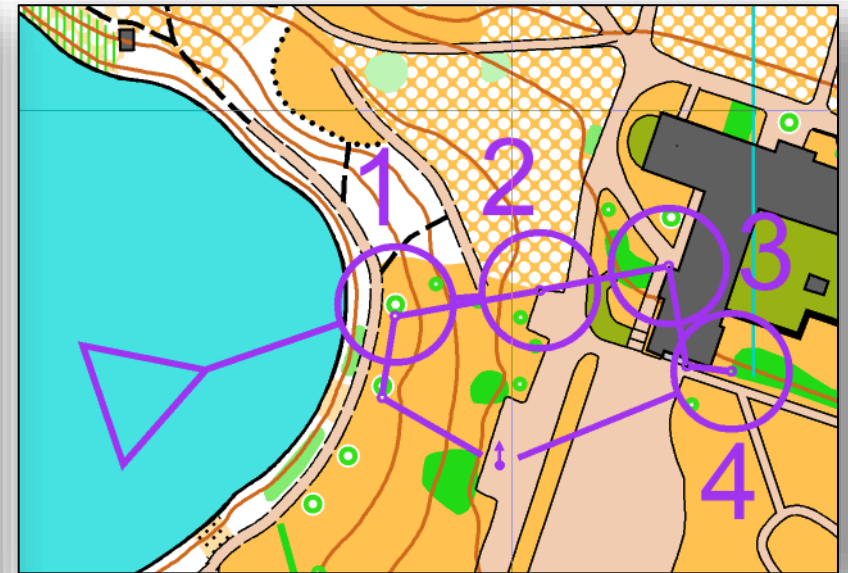


STATION_2 – Control Description Grid

- The grid for **STATION_2** controls looks like this

Station_2		0,3 km		
Start	Start	Start	Start	Start
	1	37	Start	Start
	2	38	Start	Start
	3	39	Start	Start
	4	40	Start	Start
Controls (Tasks)	Decision point (shown as Finish symbol)	50 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	30 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	20 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	30 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	30 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	20 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	10 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)
	Decision point (shown as Finish symbol)	10 m	Decision point (shown as Finish symbol)	Decision point (shown as Finish symbol)

and the map like this



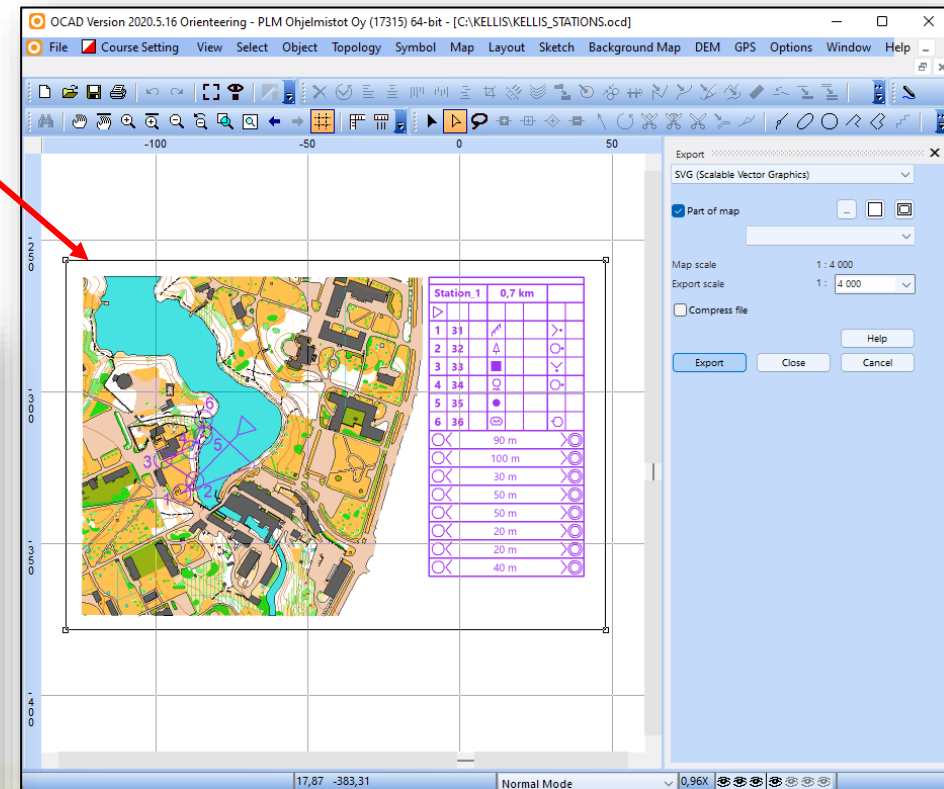
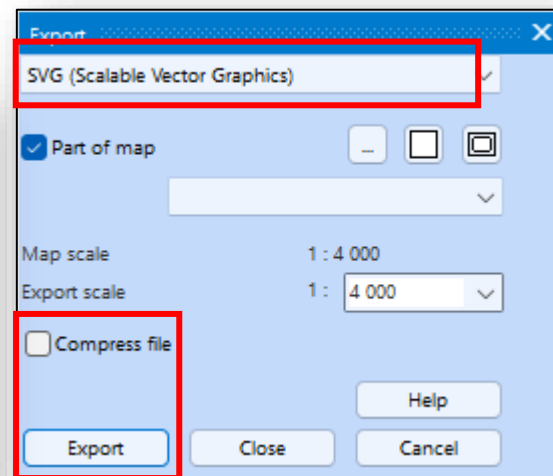
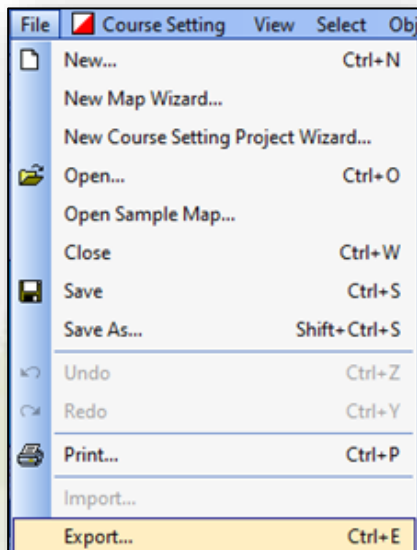
Note !!

No need to use the normal course finish symbol (706.000) for the stations



Exporting the course designs to TiM

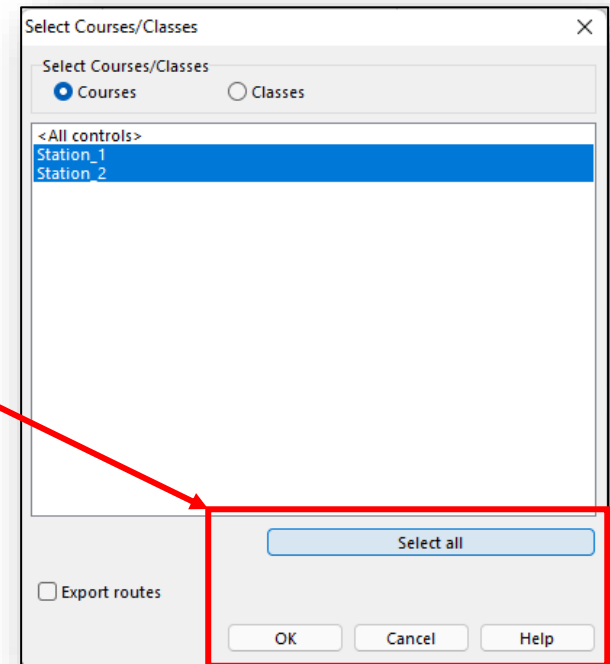
- Our working directory contains two OCAD maps: **KELLIS_4000.ocd** and **KELLIS_STATIONS.ocd**
- Tim needs two groups of files to be able to create the task maps:
the terrain map and symbol graphics in **.svg** format and control and flag information in **.xml** format
- Start by zooming the stations area on the map such that all course elements and the control description grid are visible in the OCAD graphics window
- You may modify the export boundary manually
- So we export all stations simultaneously !!
- Select **"File"** and **"Export..."**
- Select **"SVG(Scalable Vector Graphics)"**
- Verify that **"Compress File"** is not checked
- Select **"Export"**



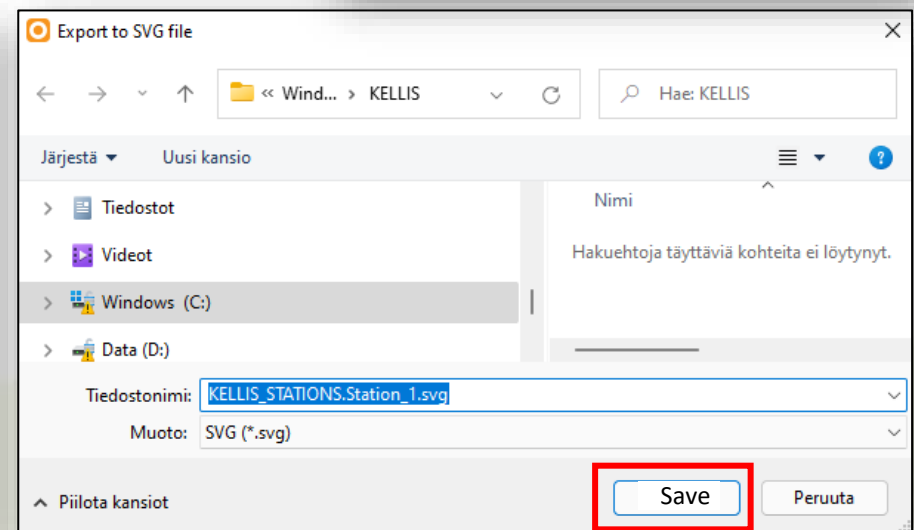
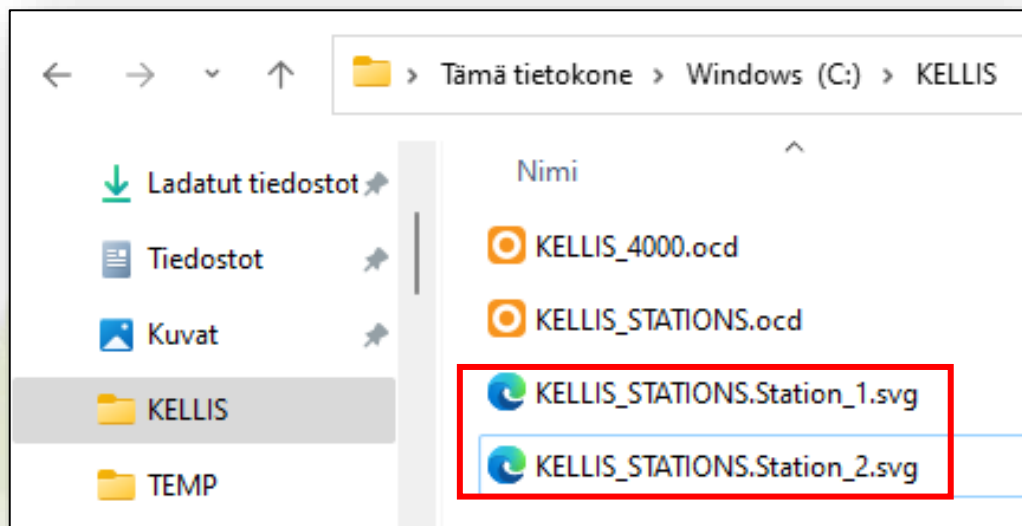
Comment !!
The graphics window looks very messy – do not let it disturb You.

Exporting the course designs to TiM (.svg)

- Now OCAD asks which courses (stations) need to be exported
- Select **"Select all"** and then select **"OK"**
- Accept the proposed naming
- Select **"Save"**



- The working directory content looks like this



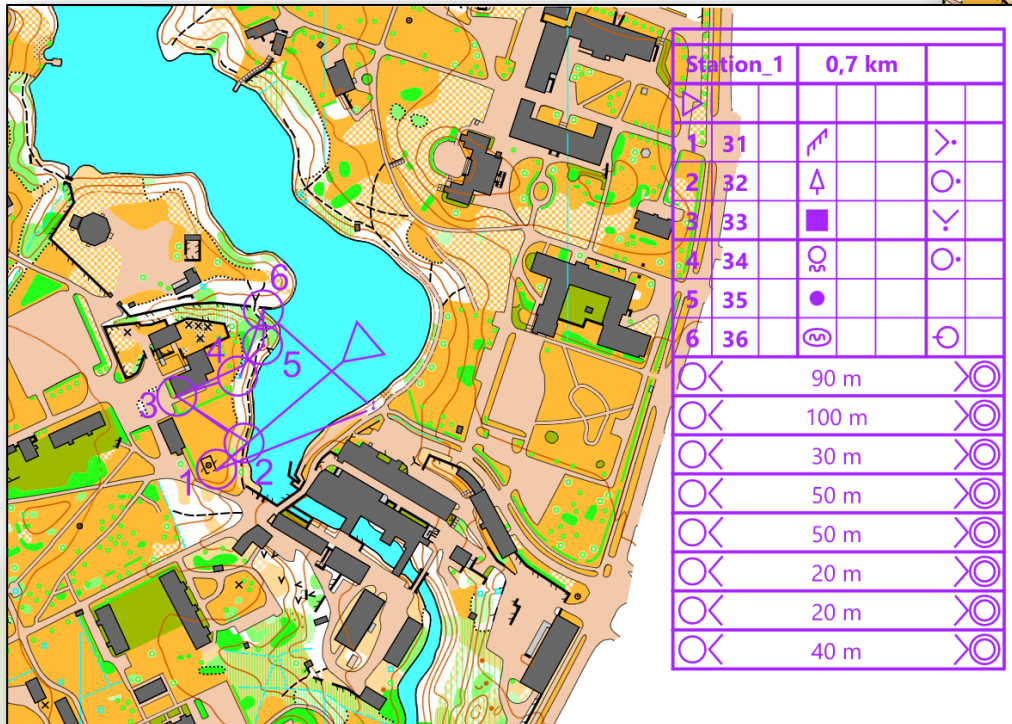
Exporting the course designs to TiM (.svg)

This is just for Your information !!

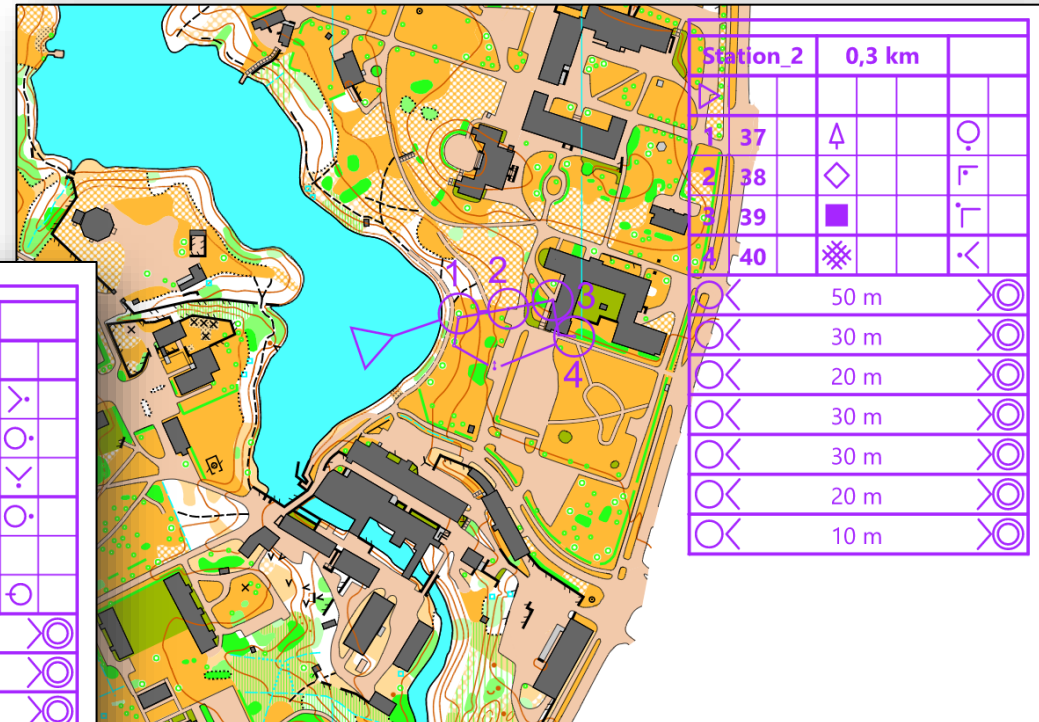
The two SVG files contain graphical elements shown below.

You can use the browser to view them.

KELLIS_STATIONS.Station_1.svg

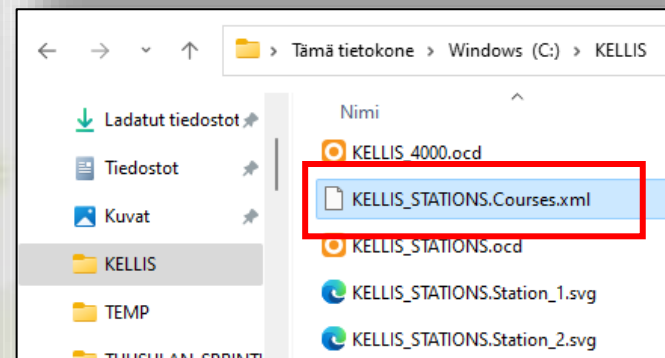
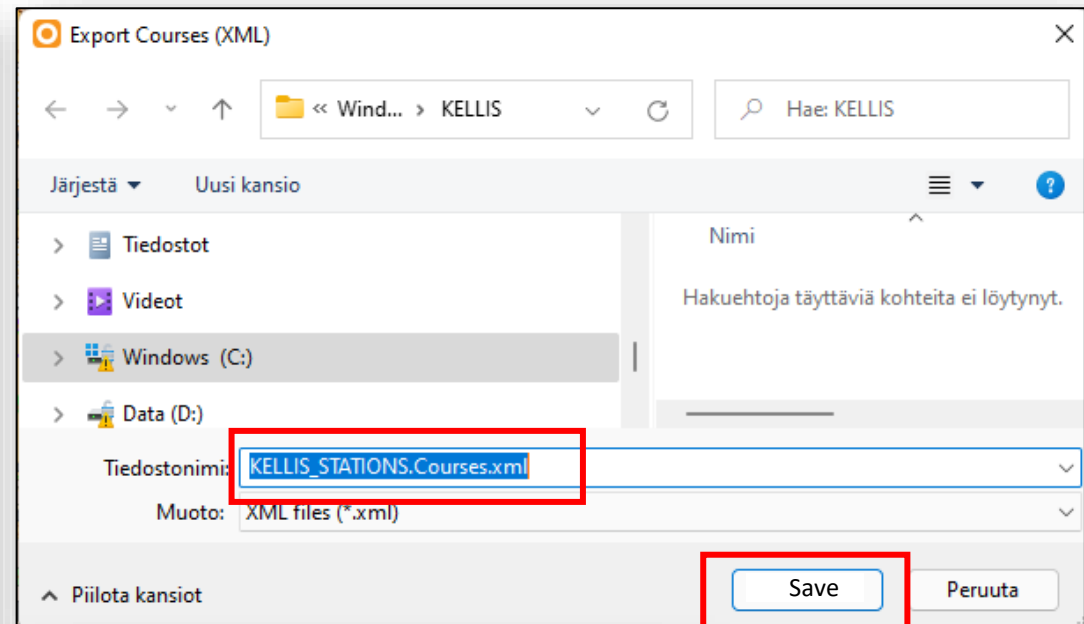
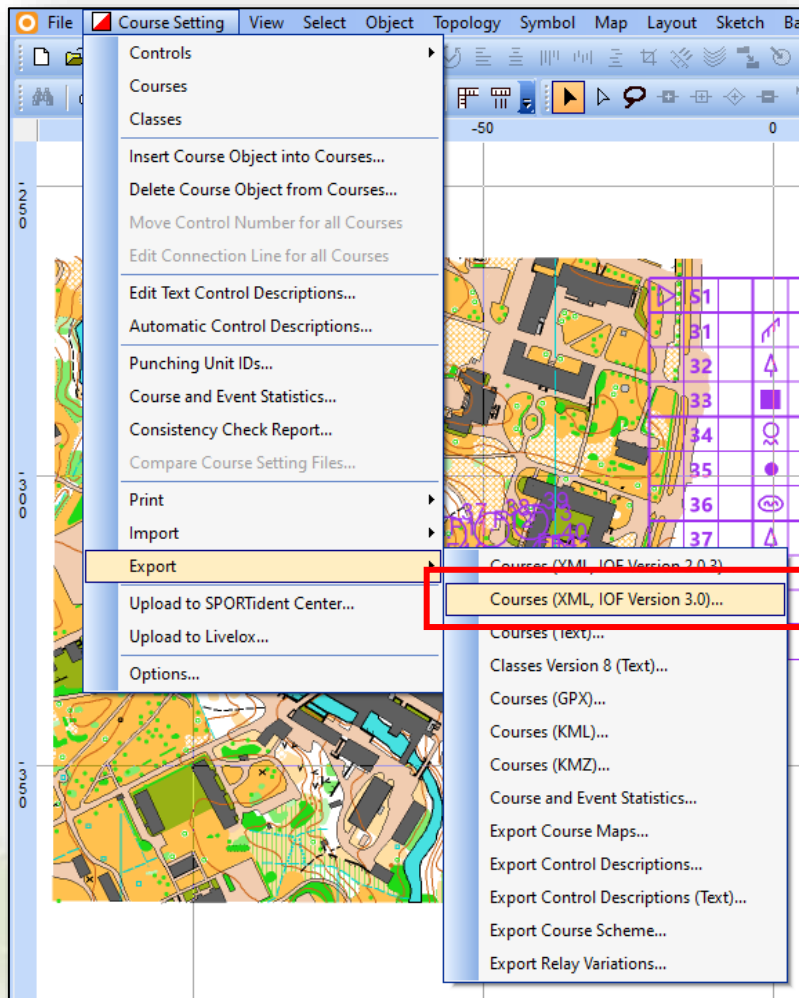


KELLIS_STATIONS.Station_2.svg



Exporting the course data to TiM (.xml)

- Select "**Course Setting**", then "**Export**" and then "**Courses (XML, IOF Versio 3.0)...**"
- Accept the proposed name **KELLIS_STATIONS.Courses.xml**
- Select "**Save**"



Exporting the course data to TiM (.xml)

This is just for Your information !!

This .XML file contains text information about courses and controls.

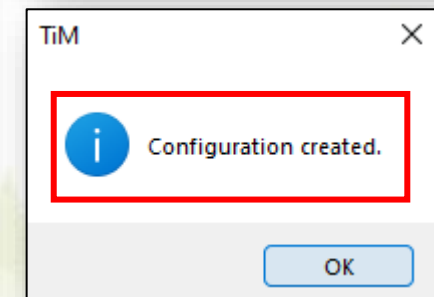
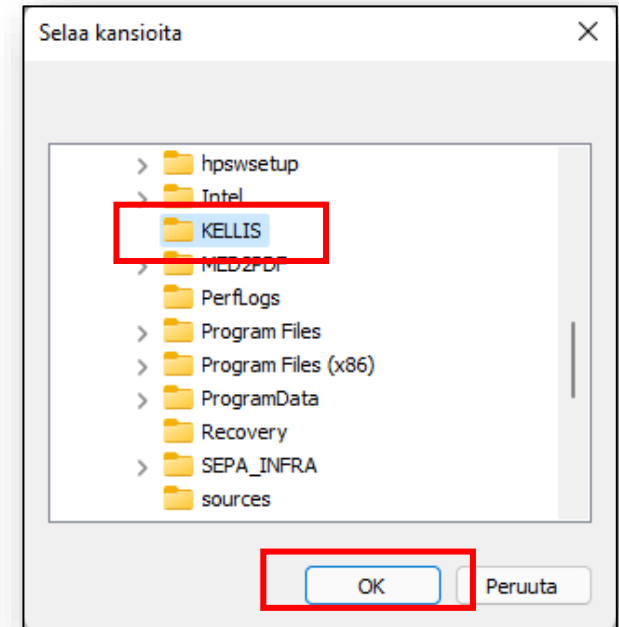
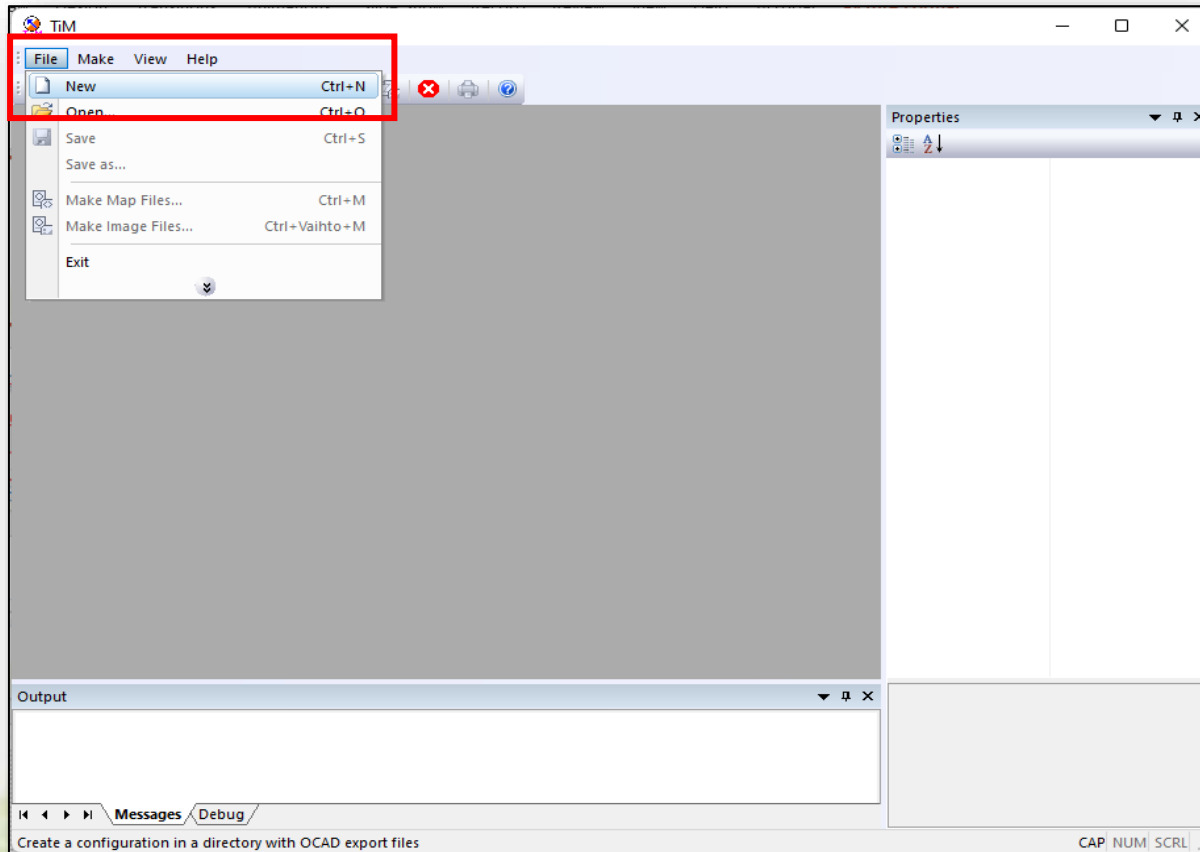
You can use the browser to view it.

```
▼<CourseData xmlns="http://www.orienteering.org/datastandard/3.0"
  ▼<Event>
    <Name>Event</Name>
  </Event>
  ▼<RaceCourseData>
    ▼<Map>
      <Scale>4000</Scale>
      <!-- extent of ocad map -->
      <MapPositionTopLeft x="-125.5" y="-261.2" unit="mm"/>
      <MapPositionBottomRight x="27.4" y="-375.3" unit="mm"/>
    </Map>
    ▼<Control>
      <Id>S1</Id>
      <MapPosition x="-69.3" y="-314.6" unit="mm"/>
    </Control>
    ▼<Control>
      <Id>31</Id>
      <MapPosition x="-91.6" y="-333.5" unit="mm"/>
    </Control>
    ▼<Control>
      <Id>32</Id>
```

The required OCAD operations are now ready. Let's continue to TiM now.

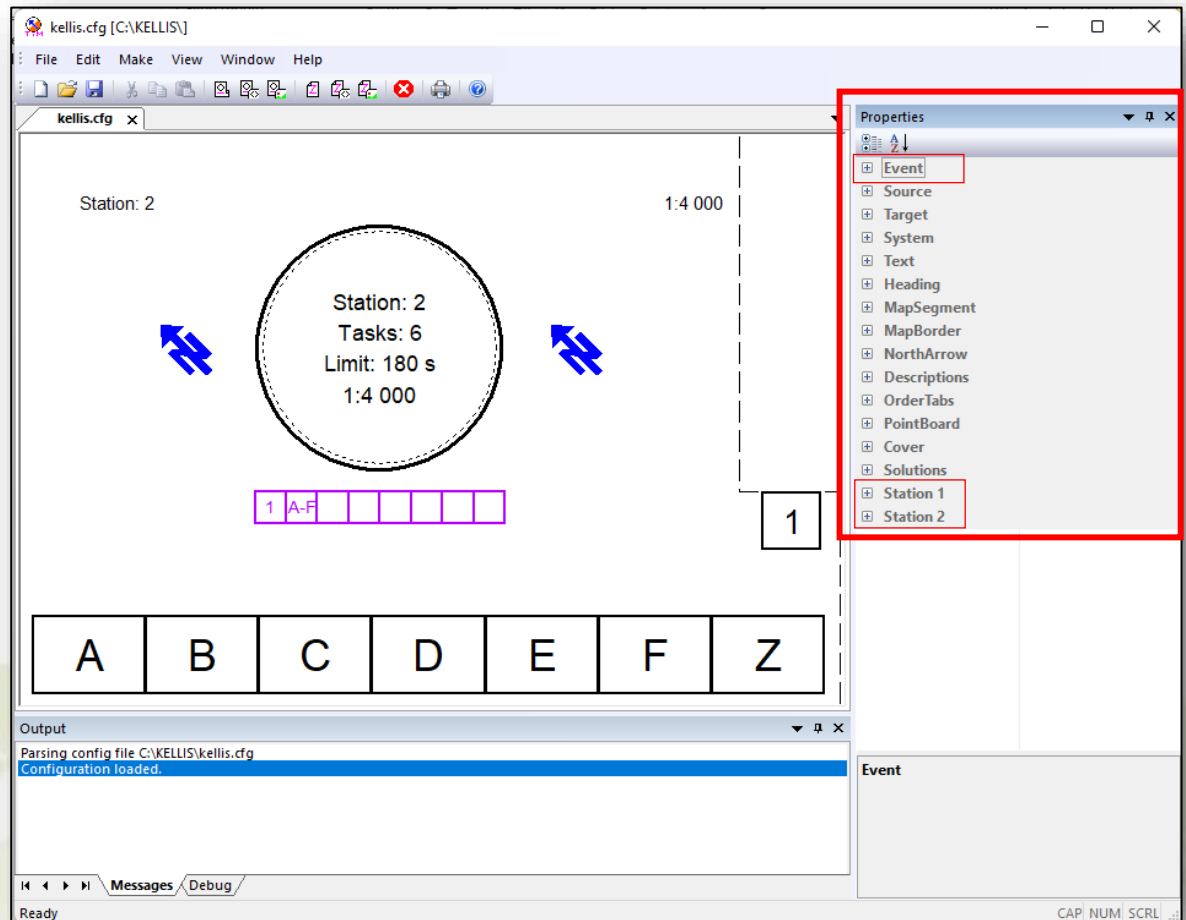
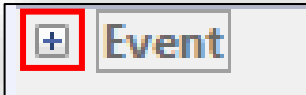
Initiating the TiM

- Start the **TiM** (for example, click the shortcut You created during installation)
- Create a new TiM project, select "**File**" and "**New**"
- Browse to the working directory (here **C:\KELLIS**) and select "**OK**"
- TiM reports succesfull creation of new project "**Configuration created.**"



Using TiM – checking basic configuration

- TiM checks now the working directory contents and finds data files (SVG and XML) for two stations
- TiM displays the **Cover Page** for the station maps (the Cover Page displayed is a layout draft only and contains no exact data yet)
- TiM configuration is done via the **Properties** column on the right
- Let's check the "Event", "Station 1" and "Station 2" sheets
- Start with "Event" first - click the plus "+"



Basic configuration – Event defaults

- Check all values - add information when needed
- For example, add "**Title 1**" value on the right column (help is displayed at bottom-right corner of TiM window)

Event	
Title 1	Kellis Cup
Title 2	
Name	KELLIS_STATIONS

Title 1
Event title (e.g. name and location) to be printed onto Solutions.

- Adjust the "**MaxStation**" value to the number of stations in Your event (usually TiM guesses this ok) – here "**2**"

MaxStation	2
------------	---

- Enter the default numbers of tasks per station (can be changed per station later)

Tasks	6
-------	---

- Enter Zero value "**No**", if no Zero answers allowed (PreO Timed Control). In TempO event use "**Yes**"

Zero	Yes
	No

- Enter the default numbers of flags per station (can be changed per station later)

Flags	6
-------	---

- Close "**Event**" - click the minus "-"

Event	
Title 1	
Title 2	
Name	KELLIS_STATIONS
Class	
Scale	4000
Contour interval	
MinStation	1
MaxStation	2
Number Format	
Tasks	6
Limit	
Zero	Yes
Flags	6
TabColor	<input type="checkbox"/> ffffff



Event	
Title 1	Kellis Cup
Title 2	Start 1
Name	KELLIS_STATIONS
Class	
Scale	4000
Contour interval	
MinStation	1
MaxStation	2
Number Format	
Tasks	6
Limit	
Zero	Yes
Flags	6
TabColor	<input type="checkbox"/> ffffff

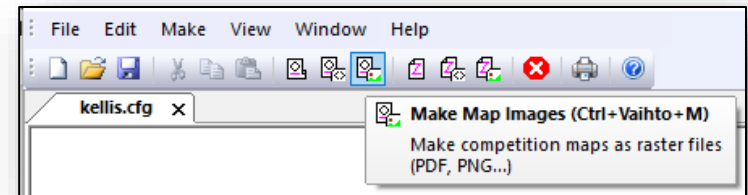
Basic configuration – Station details

- Open "Station 1"
- "Station 1" has default number of **Tasks** and **Flags** (6 and 6)
→ no need change any values here
- Open "Station 2"
- "Station 2" has **4 Tasks** and **6 Flags**
→ we need to change the **Tasks** value to "**4**"
- Close both sheets - click the minus "-" twice
- The important parameter values have now been adjusted and we can proceed to map creation phase
- When You have time available, please study the remaining features of the **Properties** column

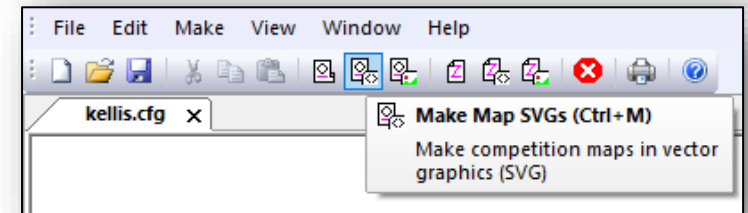
[-] Station 1	
Min Angle	
Max Angle	
Tasks	
Flags	
Answers	
Map Offset	
Solution Scale	
[-] Station 2	
Min Angle	
Max Angle	
Tasks	4
Flags	
Answers	
Map Offset	
Solution Scale	

Creating the Station Maps – Station_1

- If You installed Inkscape, initiate the map creation process by selecting "**Make Map Images (Ctrl+Shift+M)**" (a bunch of SVG and PDF files will be created)

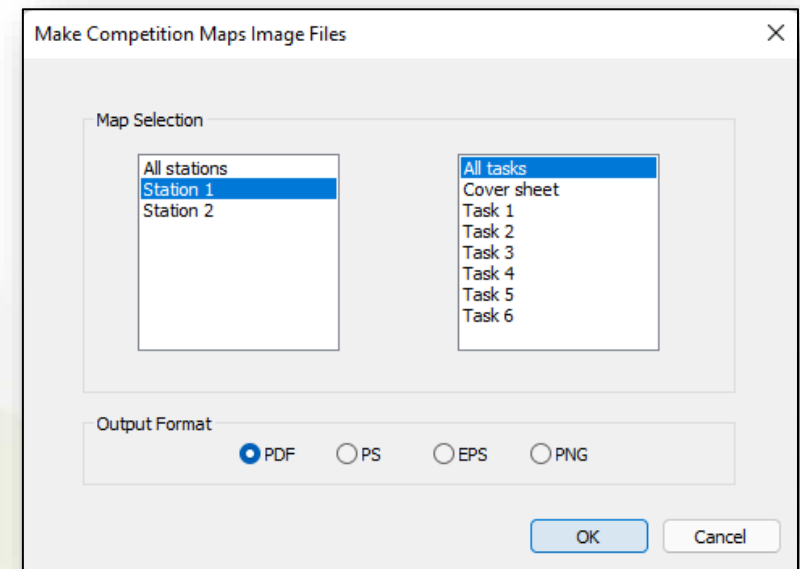
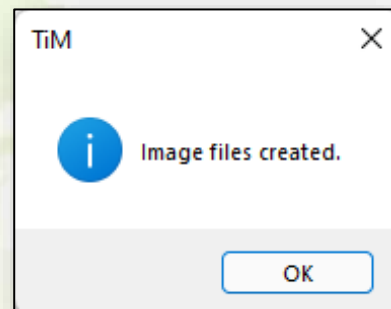


- If You DID NOT install Inkscape, initiate the map creation process by selecting "**Make Map SVGs (Ctrl+M)**" (bunch of SVG files will be created)


















You can use this option to check the maps with browser before creating the final PDF files

- This time we'll generate PDF maps for **Station_1** only
- Select "**Station 1**", "**All tasks**" and "**OK**"
- If using Inkscape, select also file format – here "**PDF**"
- TiM reports "**Image files created.**"
- Select "**OK**"



Files created by TiM

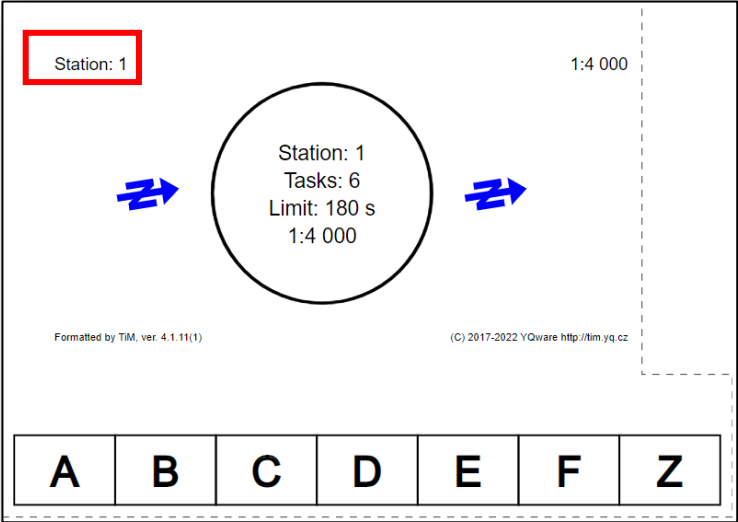
The working directory contains now these task maps:

 map-1.0.svg	- station 1 cover page (SVG format)
 map-1.1.svg	- station 1 task map 1 (SVG format)
 map-1.2.svg	- station 1 task map 2 (SVG format)
 map-1.3.svg	- station 1 task map 3 (SVG format)
 map-1.4.svg	- station 1 task map 4 (SVG format)
 map-1.5.svg	- station 1 task map 5 (SVG format)
 map-1.6.svg	- station 1 task map 6 (SVG format)
 prn-1.0-1.1.pdf	- station 1 cover page and task map 1 on one A4 sheet (PDF format)
 prn-1.0-1.1.svg	- station 1 cover page and task map 1 on one A4 sheet (SVG format)
 prn-1.2-1.3.pdf	- station 1 task maps 2 and 3 on one A4 sheet (PDF format)
 prn-1.2-1.3.svg	- station 1 task maps 2 and 3 on one A4 sheet (SVG format)
 prn-1.4-1.5.pdf	- station 1 task maps 4 and 5 on one A4 sheet (PDF format)
 prn-1.4-1.5.svg	- station 1 task maps 4 and 5 on one A4 sheet (SVG format)
 prn-1.6.pdf	- station 1 task map 6 on A4 sheet (PDF format)
 prn-1.6.svg	- station 1 task map 6 on A4 sheet (SVG format)

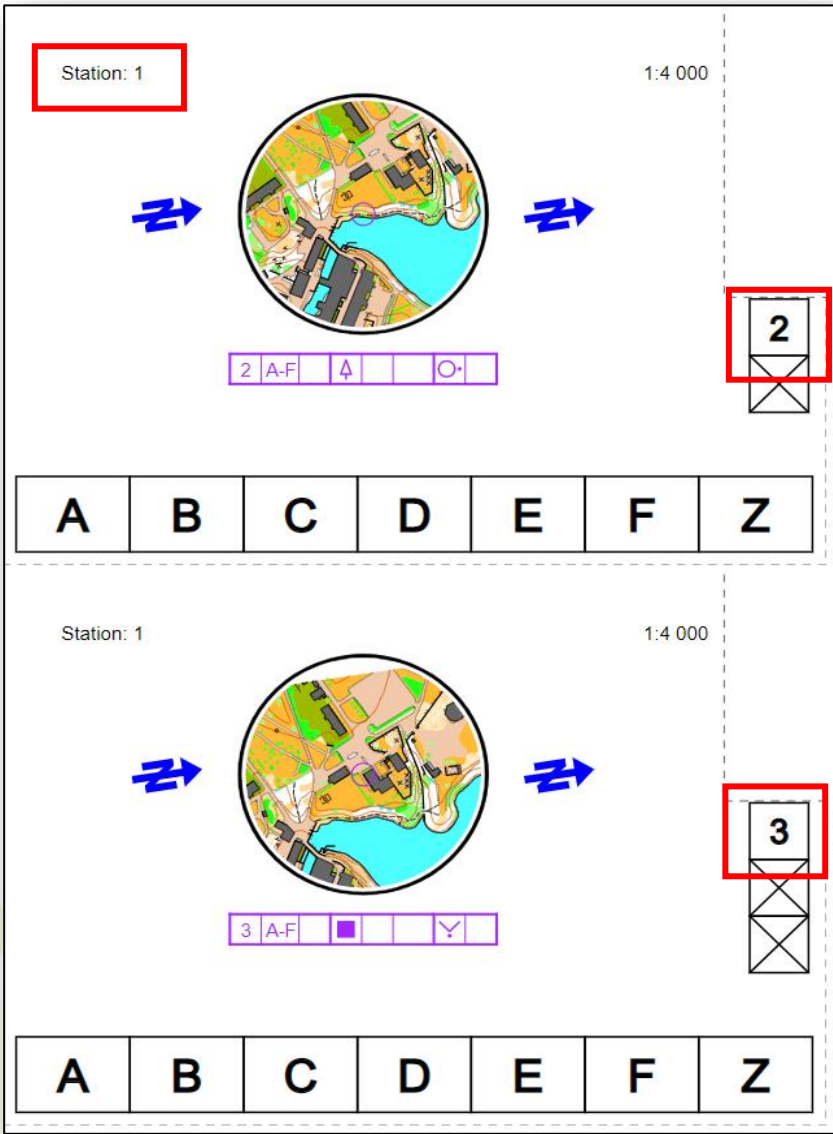
- Use browser to view and print **SVG** files
- Use Acrobat to view and print **PDF** files
- Use same procedure to create **Station_2** files

Examples of files created by TiM

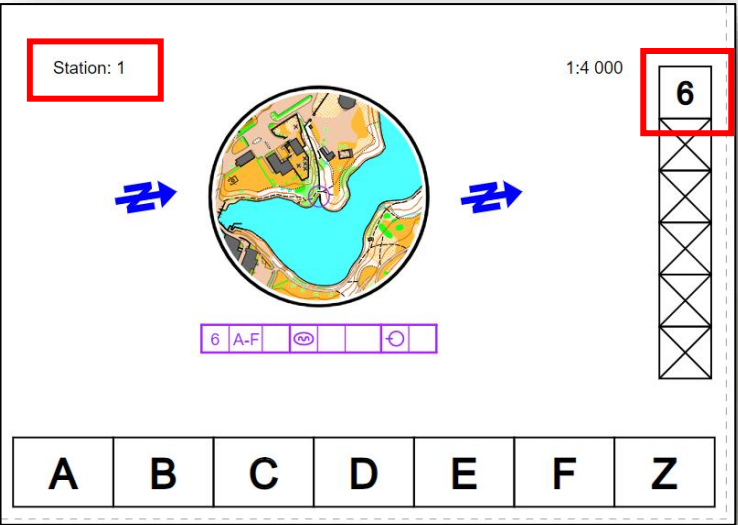
map-1.0.svg



prn-1.2-1.3.pdf

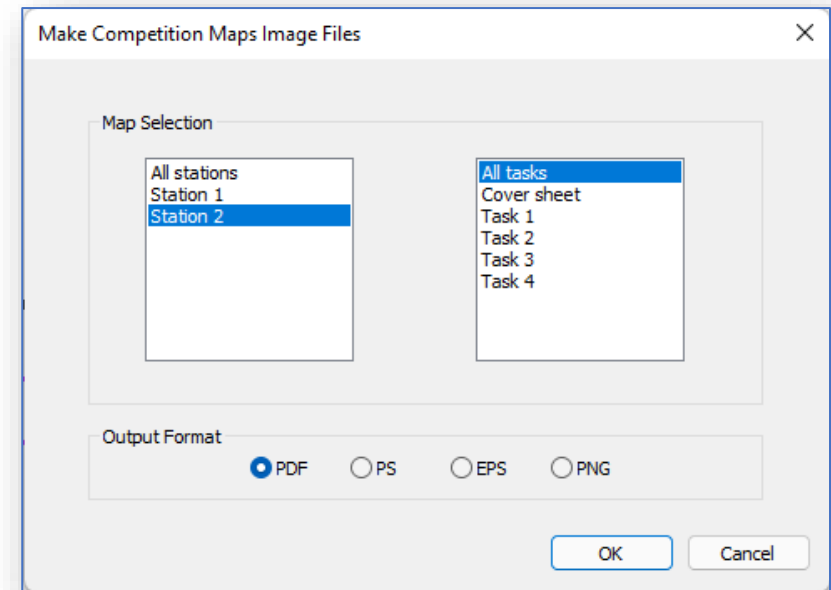


prn-1.6.pdf

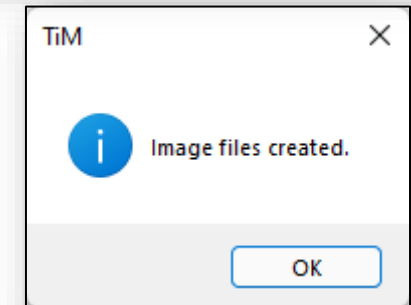


Creating the Station Maps – Station_2

- Now we'll generate PDF maps for **Station_2**
- Select "**Station 2**", "**All tasks**" and "**OK**"
- If using Inkscape, select also file format – here "**PDF**"
- TiM reports "**Image files created.**"
- Select "**OK**"

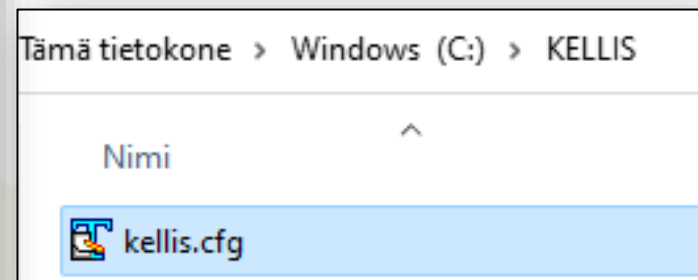
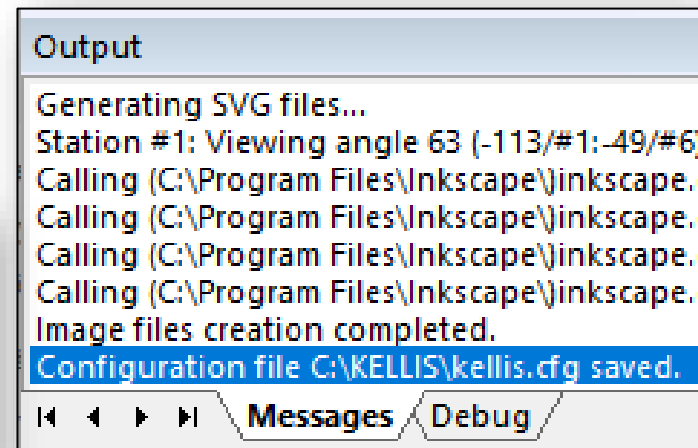
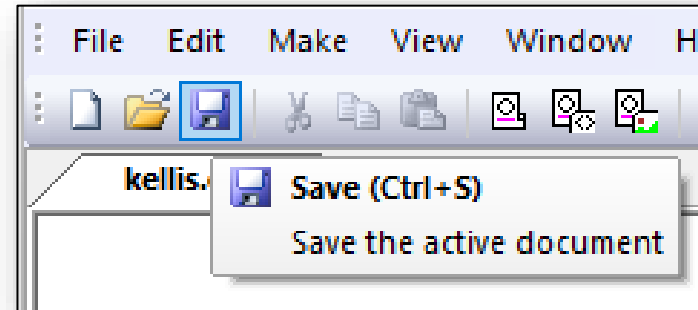
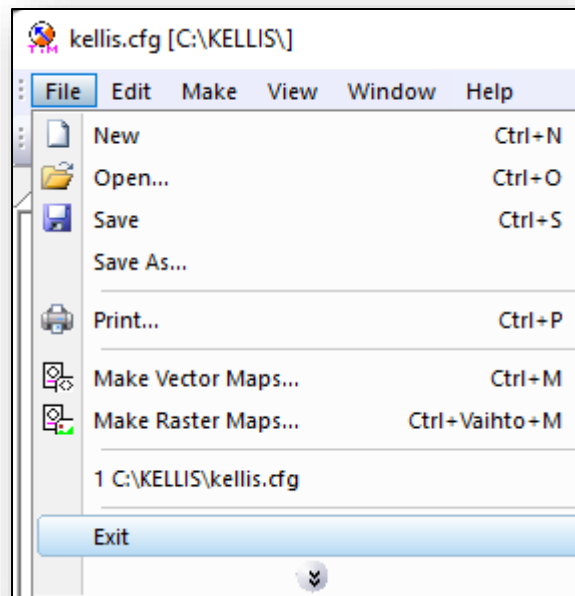


Now, when both stations are ok, we can proceed to the solution map creation phase in Part 3 of this guide.



Closing TiM

- Save Your project by selecting "Save"
- Give a project name to the file : **kellis.cfg**
- Select "**File**" and "**Exit**" to exit TiM
- Print the files – check that the colors and raster areas (e.g. undergrowth) are ok !
- Finalize the laminates maps to be used



Content of the configuration file kellis.cfg

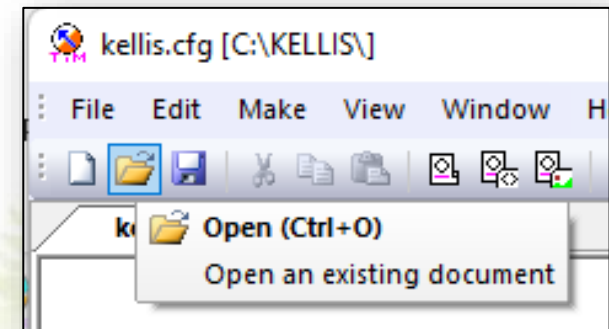
- kellis.cfg contains all the parameters specified in the **Properties area** of TiM.
- Next time, when You edit this project, open the project configuration by selecting **"Open"**

```
# TiM Configuration

[Event]
TITLE1=Kellis Cup
TITLE2=Start 1
NAME=KELLIS_STATIONS
SCALE=4000
MINSTAT=1
MAXSTAT=2
TASKS=6
FLAGS=6

[Source]
MODE=STAT
COURSE=Station_${STAT}
MAP=${EVENT}.${COURSE}.svg
COURSES=${EVENT}.Courses.xml
CHAIR=790.001
FLAG=790.002
ZERO=790.004

[Station 2]
TASKS=4
```



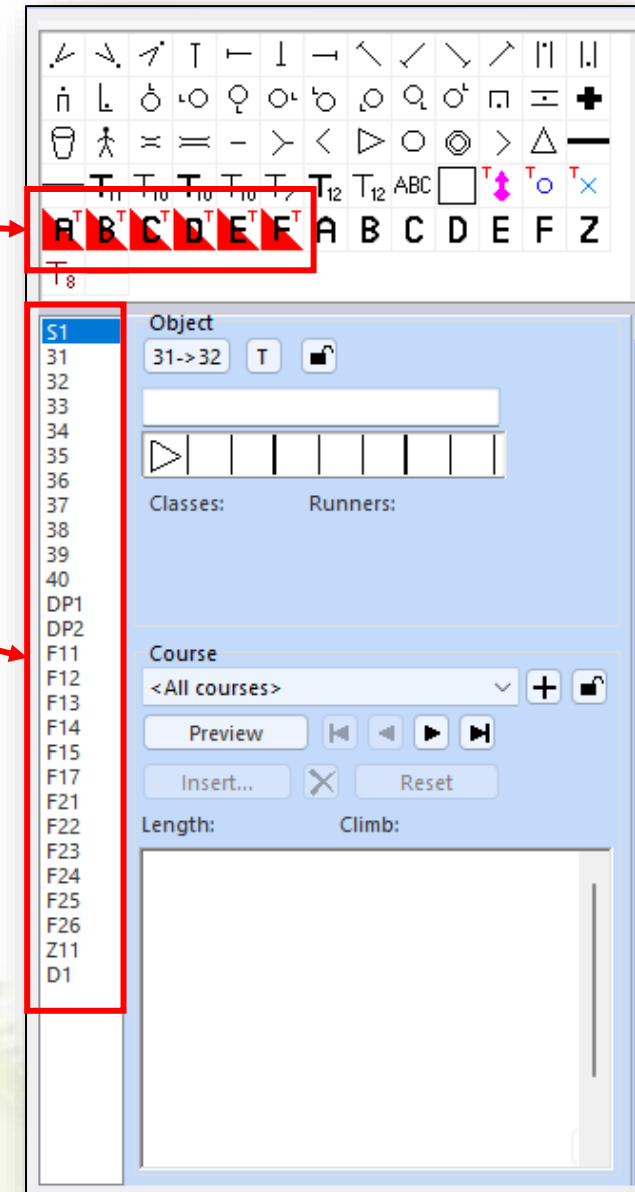
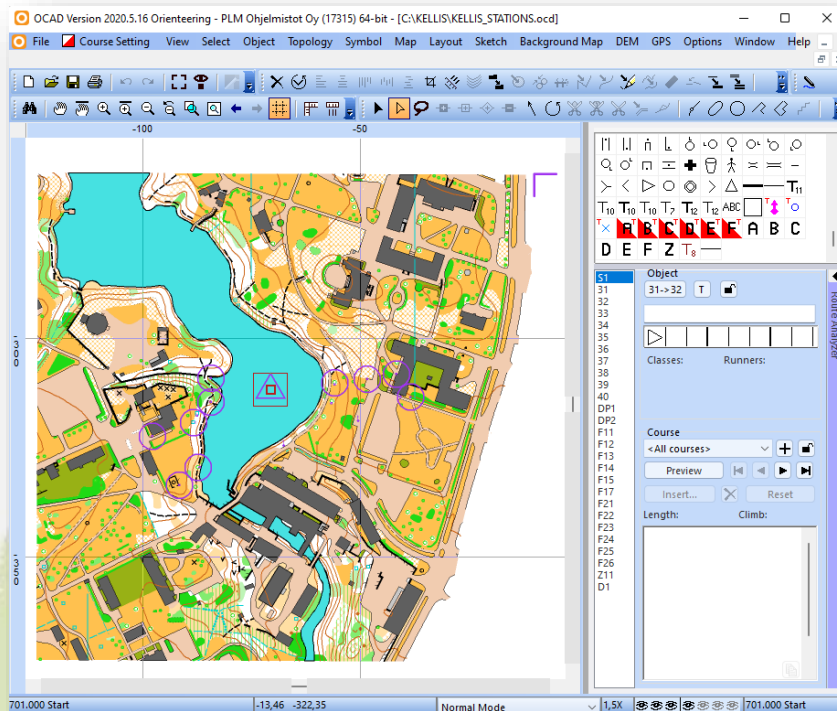
Part 3

Creating Solution Maps



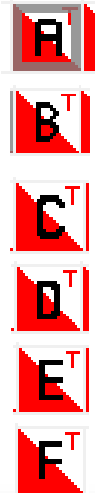
Preparing Solution Maps with OCAD

- To create **TiM Solution Maps**, some additional symbols need to be added to the stations (courses) created before. In fact we now give names to the flags, that is, from **left to right A – F**
- Use symbols **791.001 – 791.006** to do this
- When placing the symbols on the course map, they will appear at the end of the **vertical list of control points**
- Open **KELLIS_STATIONS.ocd** again



Preparing Solution Maps with OCAD

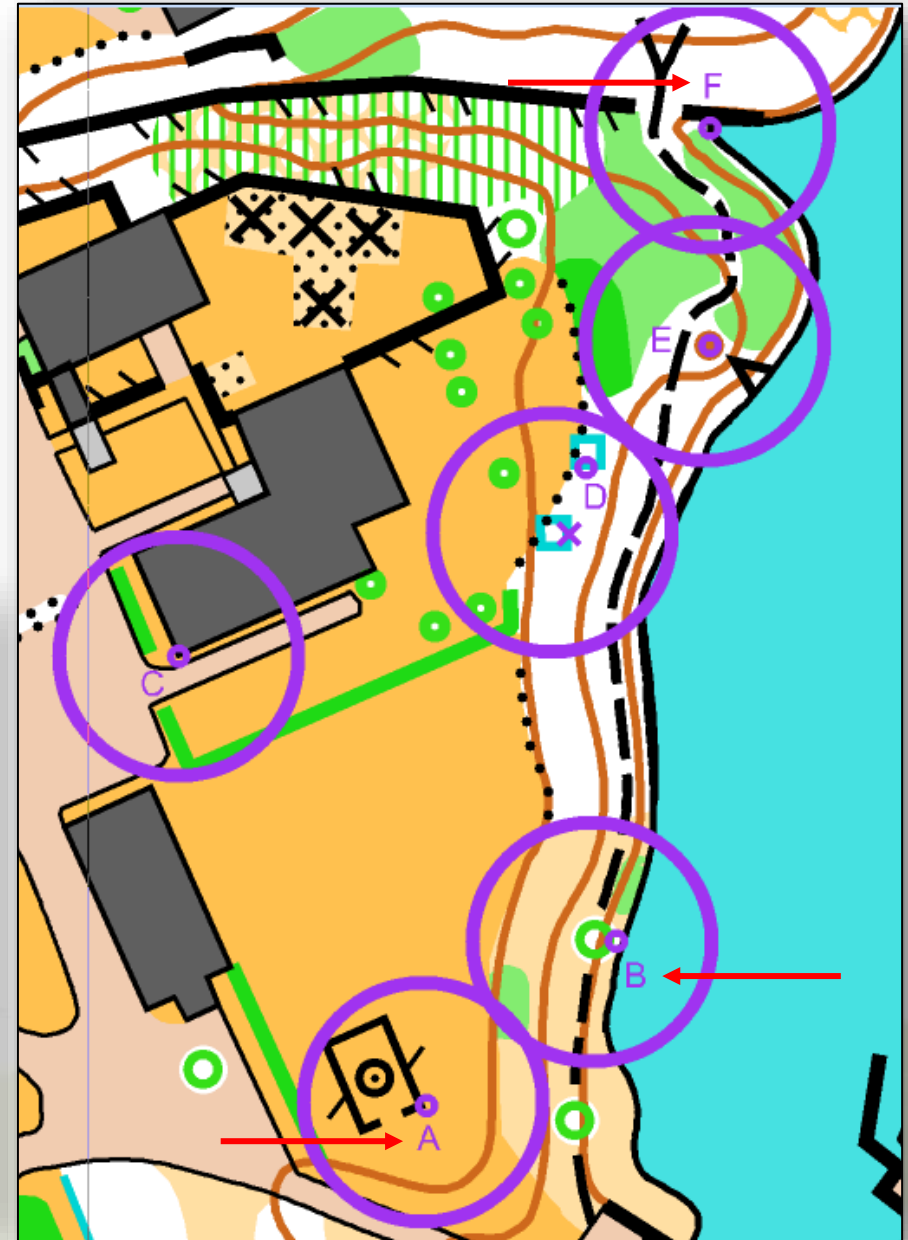
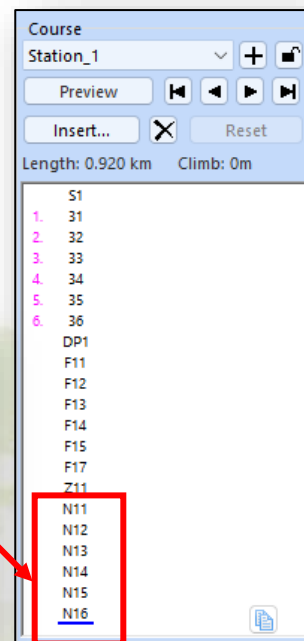
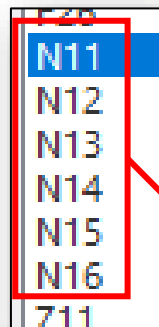
- Zoom to **Station_1**
- Place symbol **791.001 (A)** near flag F11
- Place symbol **791.002 (B)** near flag F12
- Place symbol **791.003 (C)** near flag F13
- Place symbol **791.004 (D)** near flag F14
- Place symbol **791.005 (E)** near flag F15
- Place symbol **791.006 (F)** near flag F16



- No name for the Zero symbol
- The new symbols (A-F) appear on the list as **N11 – N16**

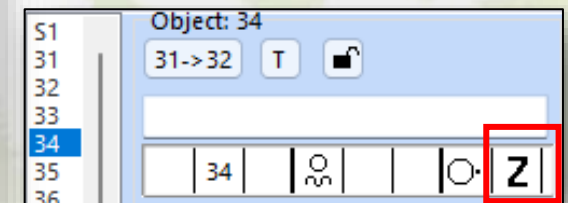
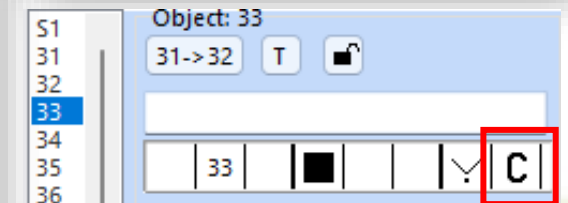
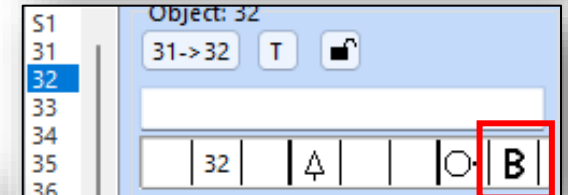
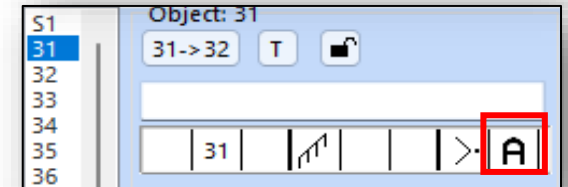
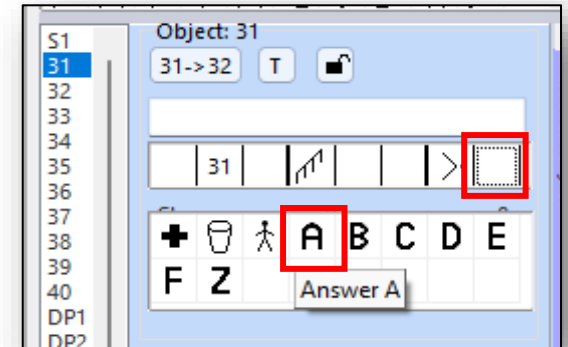
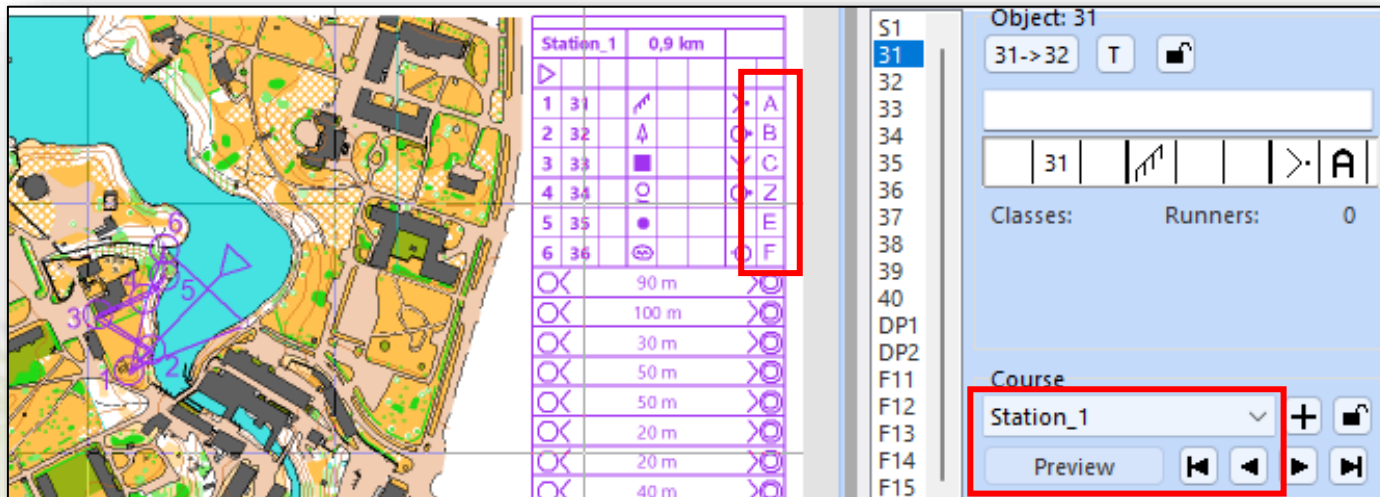
- Add now these new symbols to Course **Station 1**

- Repeat same procedure for **Station 2**
(use names **N21-N26**)



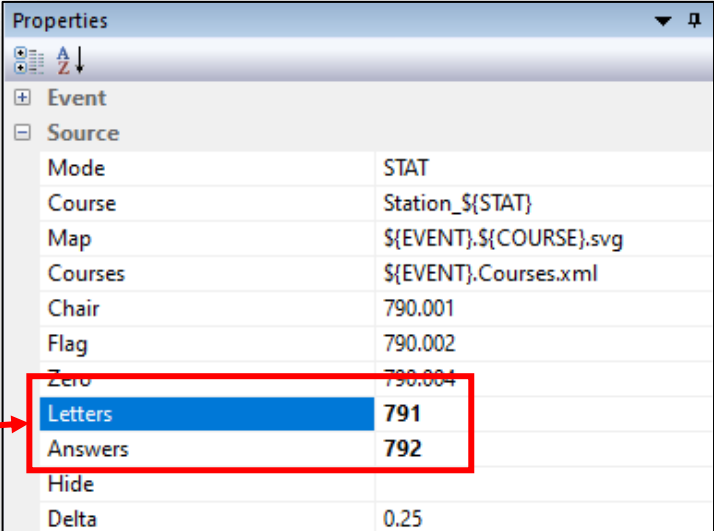
Specifyig correct answers

- Before we can generate the Solution maps, we need to tell OCAD and TiM what are the correct answers
- In OCAD the correct answer letter is placed inside the control description of each **Task**
- Use TiM symbols **792.001 – 792.007** and place them to column **"H"** in the control description
- Select control "31" and symbol "Answer A" in column H
- Select control "32" and symbol "Answer B" in column H
- Select control "33" and symbol "Answer C" in column H
- Select control "34" and symbol "Answer Z" in column H
- Repeat this for all controls 35 – 40
- Use **"Preview"** to verify that the answers are ok in descriptions

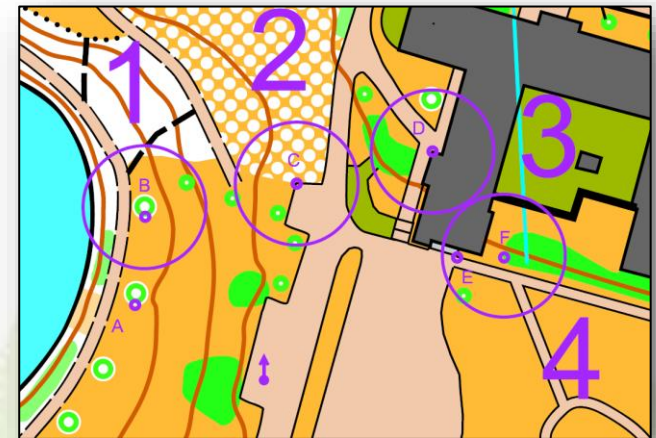
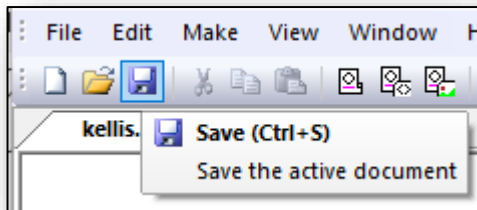


Creating Solution Maps with TiM

- Now we are ready to create the **Solution Maps**
- Export **both** the **.SVG** **and** **.XML** files again from OCAD as described earlier (overwrite previous versions)
- Initiate **TiM** and by default TiM opens the previous **kellis.cfg**
- Verify from **Properties** column that **Source** sheet contains all needed information:
 - Letters **791**
 - Answers **792**
- Enter the values if not present
- Save the project





Properties	
Event	
Source	
Mode	STAT
Course	Station_\${STAT}
Map	\${EVENT}.\${COURSE}.svg
Courses	\${EVENT}.Courses.xml
Chair	790.001
Flag	790.002
Zero	790.004
Letters	791
Answers	792
Hide	
Delta	0.25



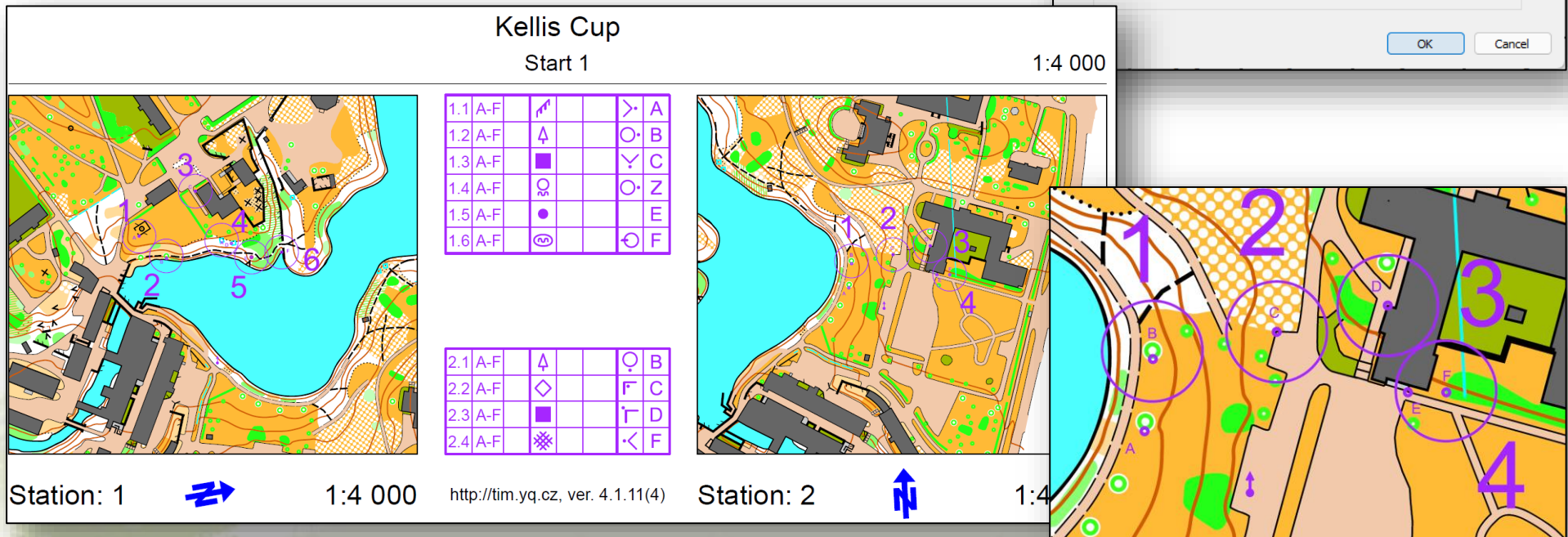
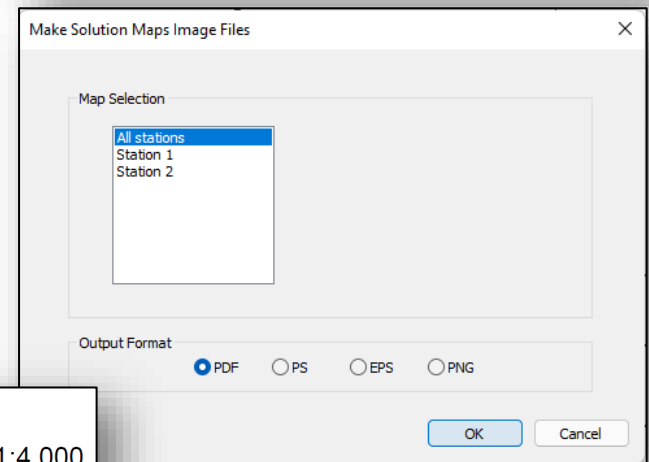
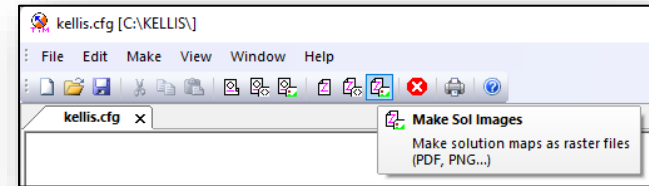
Creating Solution Maps with TiM

- Select **"Make Sol Images"**
- Select **"All stations"** and **"PDF"** for file type
- Select **"OK"**
- Two new files appear in the working directory

 sol-1-2.pdf - station 1 and 2 solution map (**SVG format**)

 sol-1-2.svg - station 1 and 2 solution map (**PDF format**)

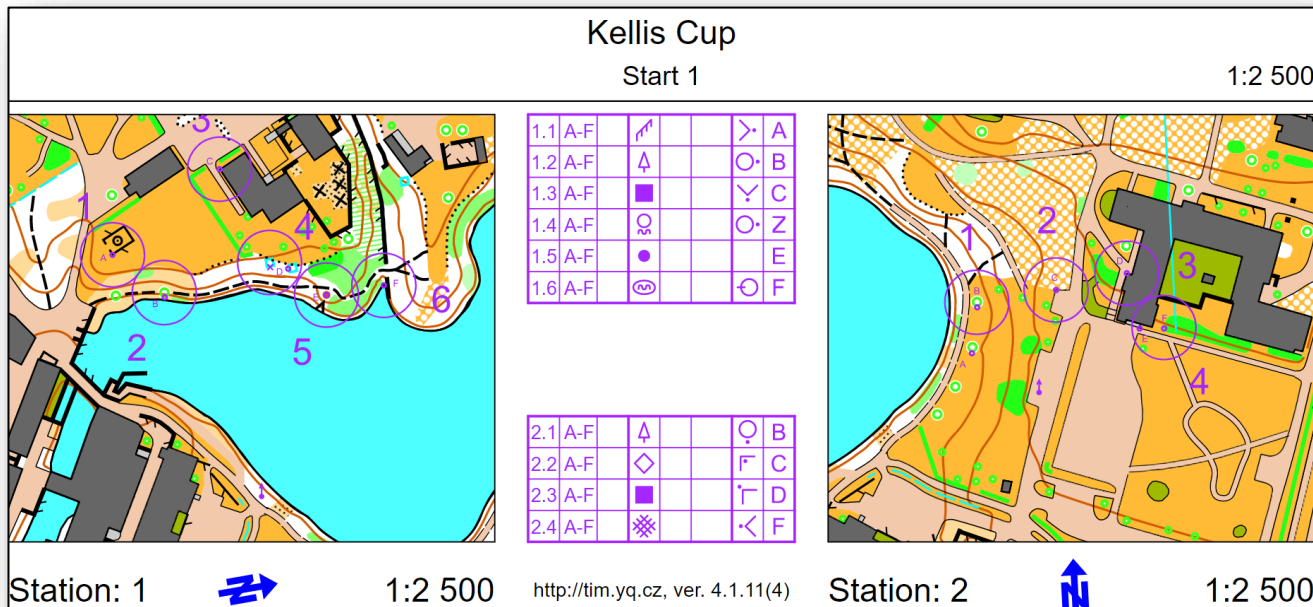
- Solution map scale is by default 1:4000
- Check that all needed elements are on the map



<http://tim.yq.cz>, ver. 4.1.11(4)

Solution Map Scale

- If You wish to produce the Solution Maps in different scale, open the **Solutions** sheet in the Properties column
- Change the **"Scale"** parameter to proper value, here 1:2500 (all stations)
- It is also possible to specify different scale for each station
- Regenerate the Solution maps with Select **"Make Sol Images"**
- Save the configuration changes and **Exit** TiM
- Print the solution maps for competitors



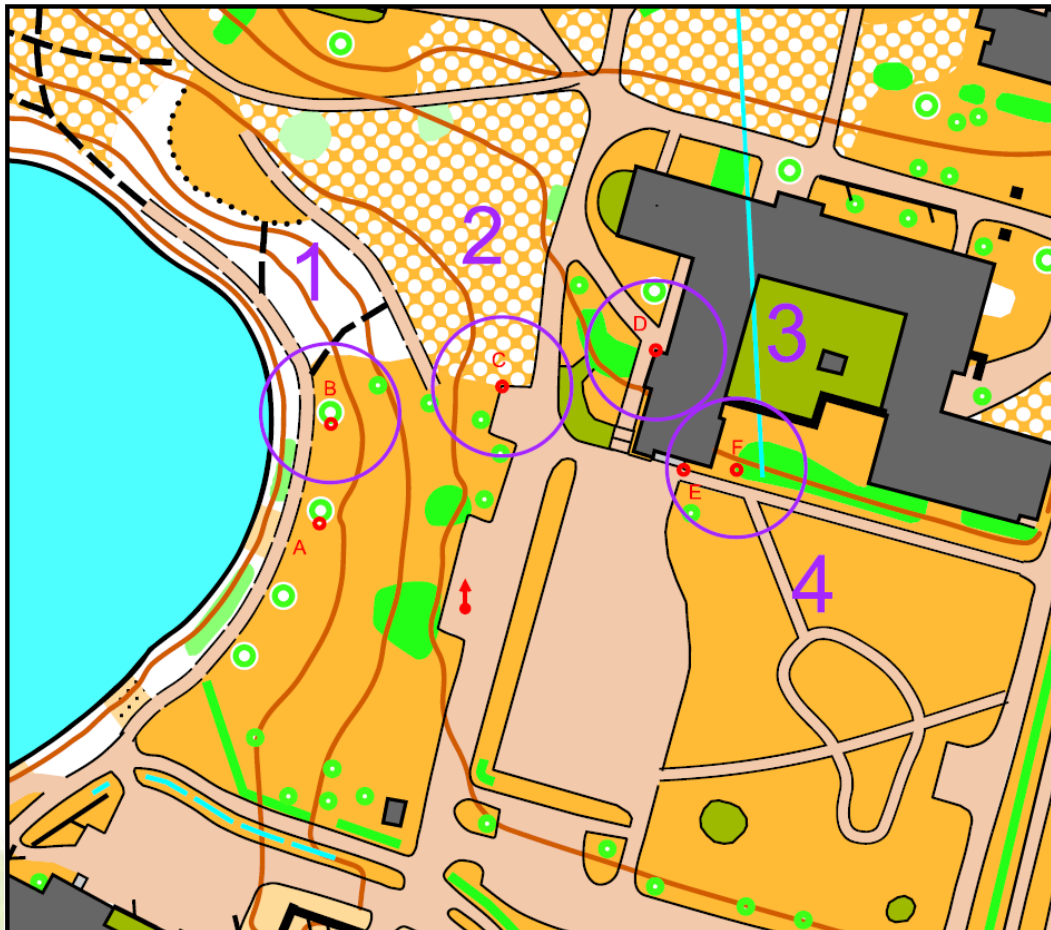
Solutions	
Sheet	A4Portrait
Print Margin	5
Sheet Margin	2
Title 1 Size	5
Title 2 Size	4
Ruler Height	4
Scale	2500
Map Width	
Map Height	
Map Border C...	000000
Task Numbers	Yes
Circle Width	0.15
Description Wi...	40
Logo	
Logo Width	

Station 2	
Min Angle	
Max Angle	
Tasks	4
Flags	
Answers	
Map Offset	
Solution Scale	2000

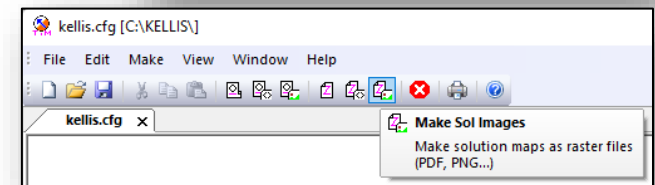
**You are now fully capable TiM professional !!!
Enjoy the software and create great TrailO events**

RED highlight color for Solution Maps

- By default TiM creates the solution maps using the default OCAD colors
- As the **Purple** is not the best color to highlight the flag locations on the solution map, You can use Red color instead
- To use Red, give value "**Red**" to Solutions property "**TiM Symbol Color**"
- Then Regenerate the solution maps



Solutions	
Sheet	A4Portrait
Print Margin	5
Sheet Margin	2
Title 1 Size	5
Title 2 Size	4
Ruler Height	4
Scale	2500
Map Width	
Map Height	
Map Border Color	000000
Task Numbers	Yes
TiM Symbol Color	Original
Circle Width	Original
Description Width	Red
Logo	
Logo Width	
Logo Height	
Logo Top	



You are now fully capable TiM professional !!!
Enjoy the software and create great TrailO events

Author



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