Anleitung

Points in charts for the Lowrance units with the IMC and qGIS

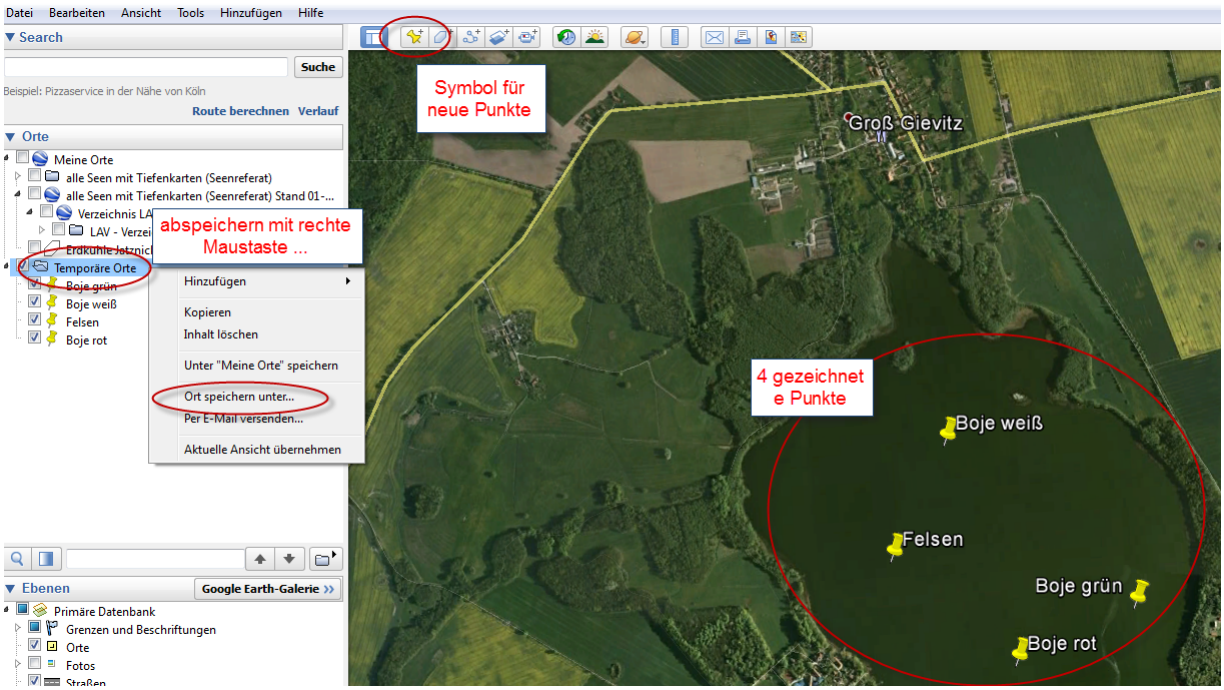
In 4 steps it is possible to produce a point AT5, additional or together with other AT5 files from line and area shapes

1. Point management
2. Point to shape
3. Shape, adapt for use in the IMC
4. AT5 generating in the IMC

1. Point management

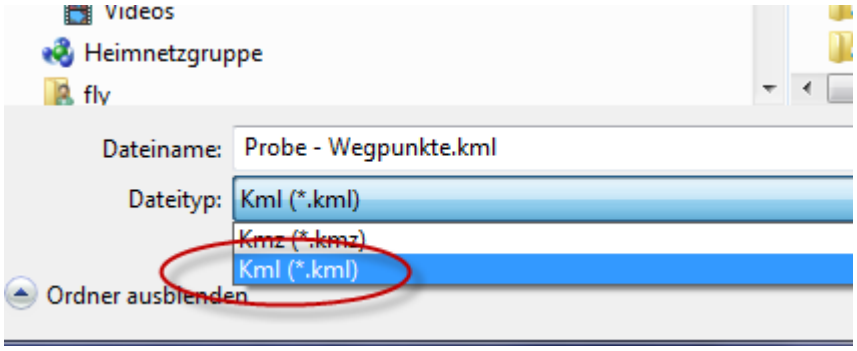
Starting point can be an existing file, e. g. gpx from HDS or usr, converted with GPSBabel to gpx.
Another option are own created points, e. g. as kml-file (not kmz!!!) in Google Earth.

In this sample is the starting point a kml file with fictive points.



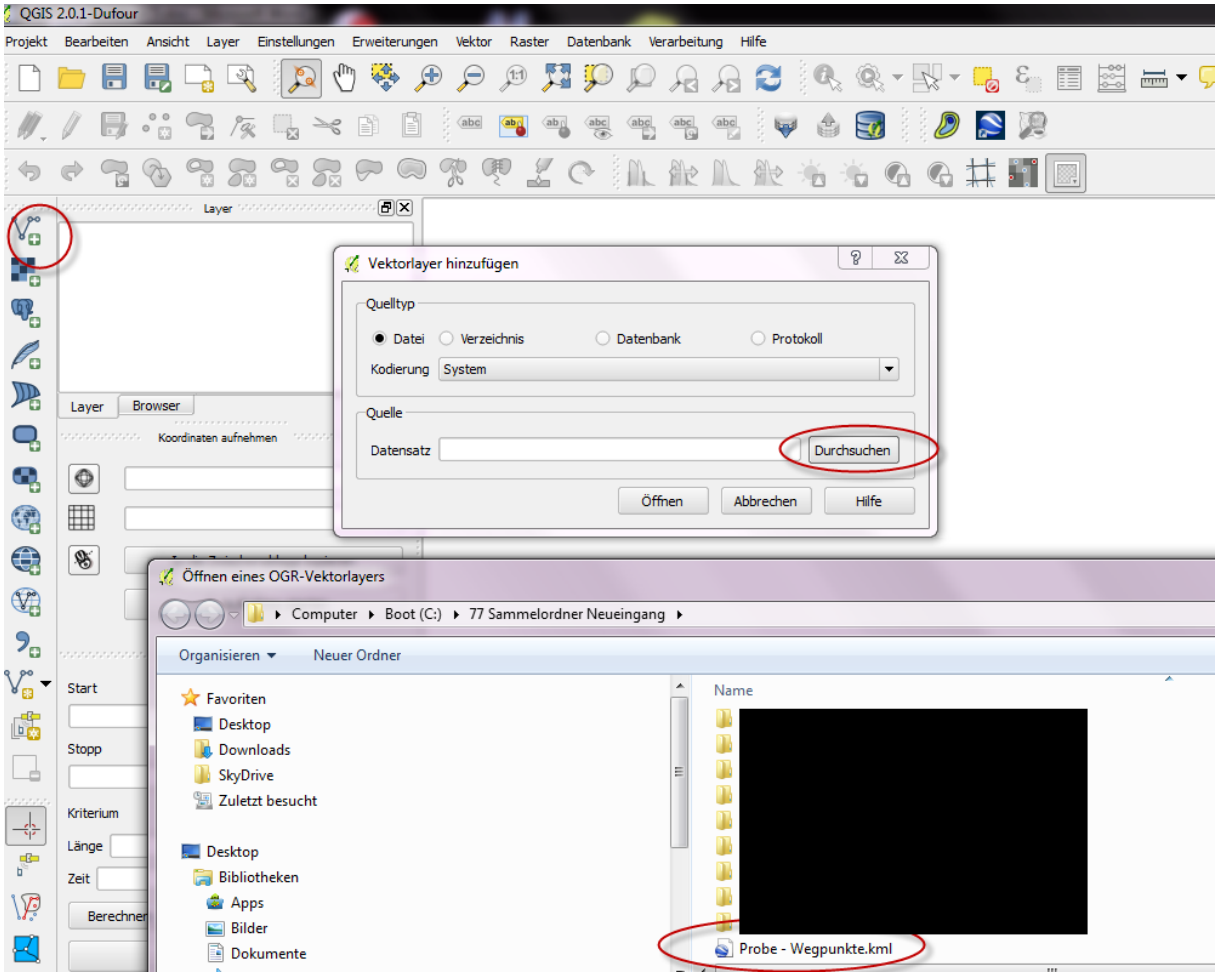
Save this file on Your hard disk as kml, not as kmz!

The name of the output kml file in this sample is "Probe-Wegpunkte.kml" (english: test_waypoints).

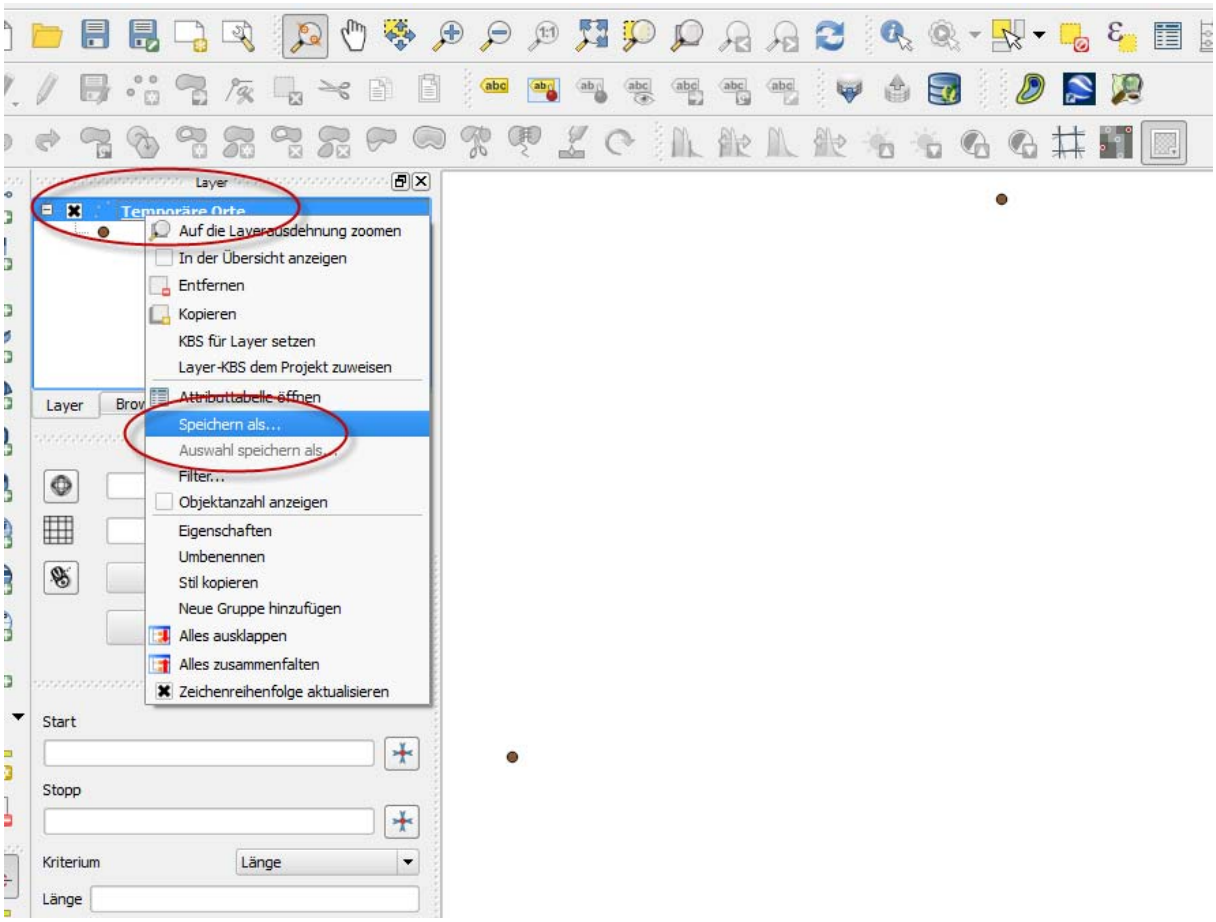


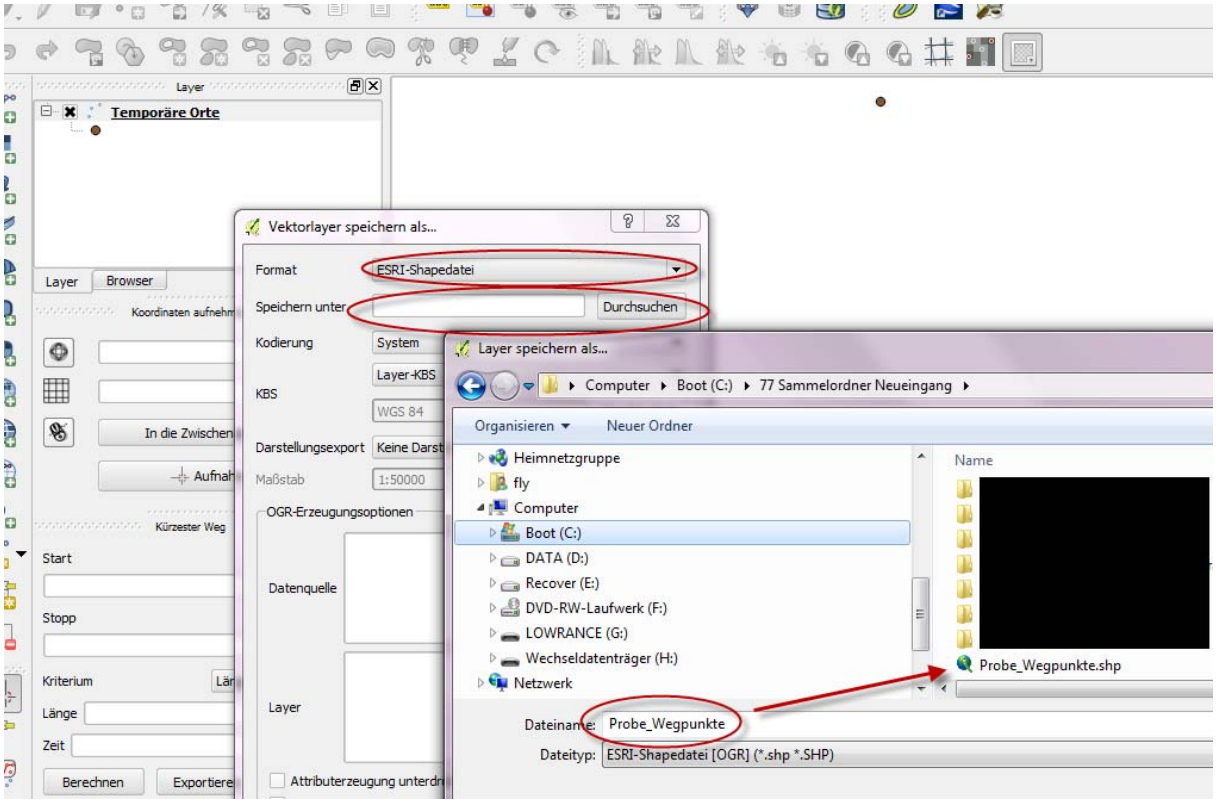
2. Point to shape

Start the free GIS application qGIS. "Add vector layer" symbol. Select the kml-file (the same in the case of a gpx-file).

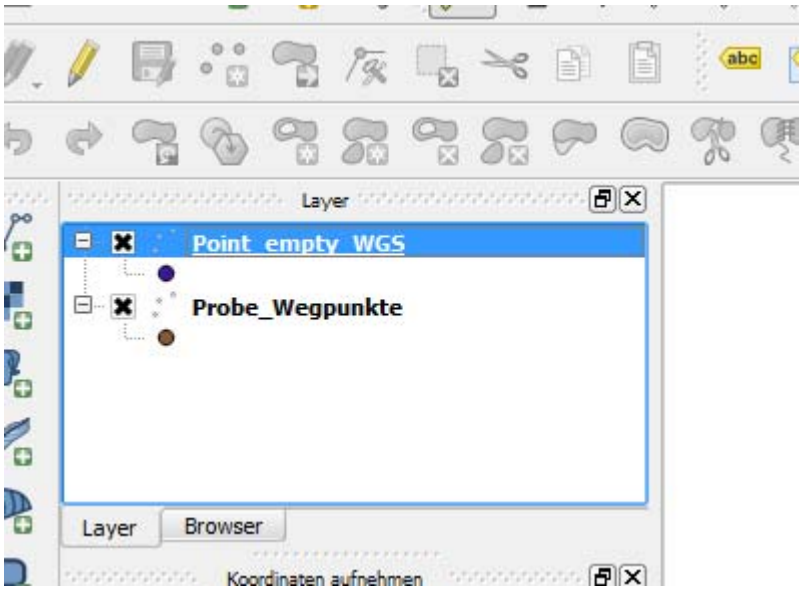


Right mouse button to "Temporäry places", save as Esri shape file, forgive a name, OK.

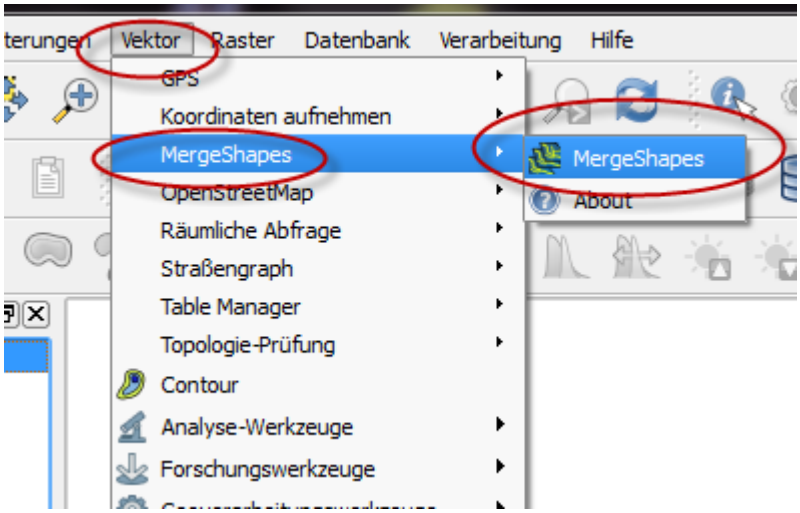

Layer
Temporäre Orte
Auf die Layerausdehnung zoomen
In der Übersicht anzeigen
Entfernen
Kopieren
KBS für Layer setzen
Layer-KBS dem Projekt zuweisen
Attributtabelle öffnen
Speichern als...
Auswahl speichern als...
Filter...
Objektanzahl anzeigen
Eigenschaften
Umbenennen
Stil kopieren
Neue Gruppe hinzufügen
Alles ausklappen
Alles zusammenfalten
Zeichenreihenfolge aktualisieren
Layer
Start
Stopp
Kriterium
Länge
Länge


Layer
Temporäre Orte
Layer
Browser
Vektorlayer speichern als...
Format
ESRI-Shapedatei
Speichern unter
Durchsuchen
Kodierung
System
KBS
Layer-KBS
WGS 84
Darstellungsexport
Maßstab
1:50000
OGR-Erzeugungsoptionen
Datenquelle
Layer
Attributerzeugung unterdr
Layer speichern als...
Computer ▸ Boot (C:) ▸ 77 Sammelordner Neueingang ▸
Organisieren
Neuer Ordner
Heimnetzgruppe
fly
Computer
Boot (C:)
DATA (D:)
Recover (E:)
DVD-RW-Laufwerk (F:)
LOWRANCE (G:)
Wechseldatenträger (H:)
Netzwerk
Name
Probe_Wegpunkte.shp
Dateiname:
Probe_Wegpunkte
Dateityp:
ESRI-Shapedatei [OGR] (*.shp *.SHP)
In die Zwischen
Aufnah
Kürzester Weg
Start
Stopp
Kriterium
Länge
Zeit
Berechnen
Exportiere

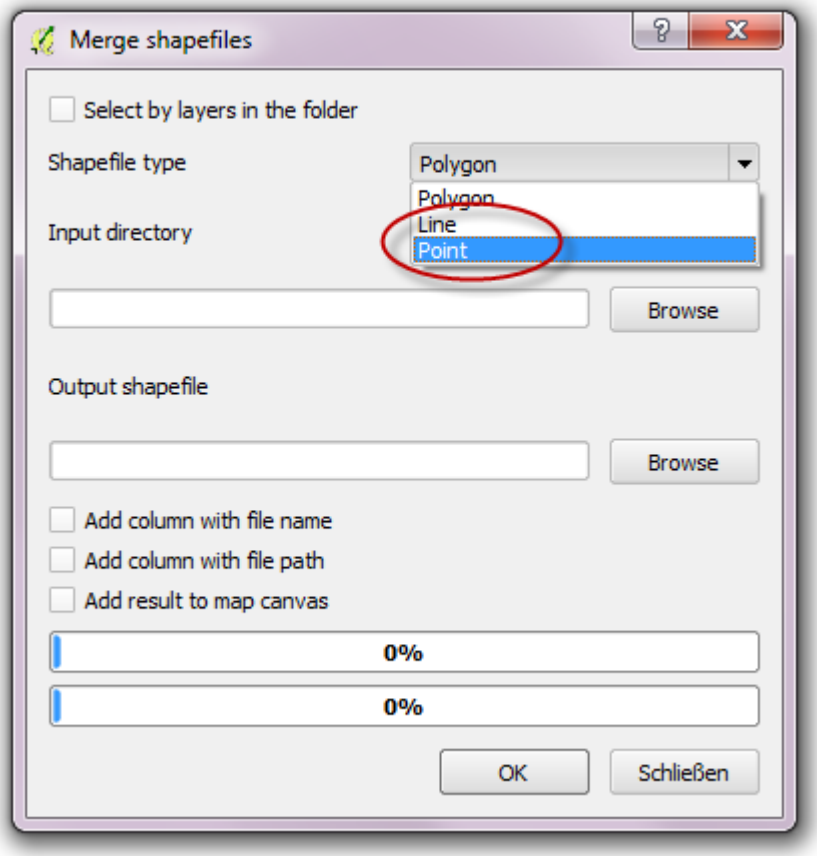
Now remove the kml-file. Load the new generated shape file ("add vector layer"). Save the enclosure shape file: "Point_empty_WGS" in the same folder as the new generated shape file and load also the file "Point_empty_WGS". Now 2 shape files are loaded.



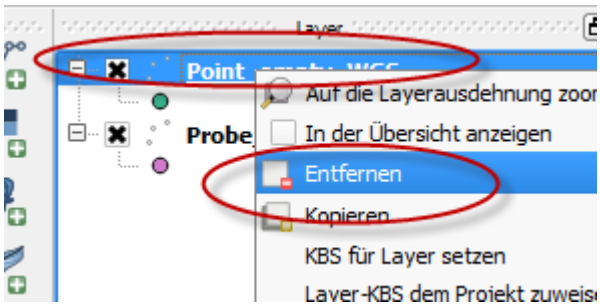
Merge both files:



Set to "point", select the "Input directory" and the "Output shapefile", OK.
The name of the output shape file in this sample is "IMC_Wegpunkte" (english: IMC_waypoints).



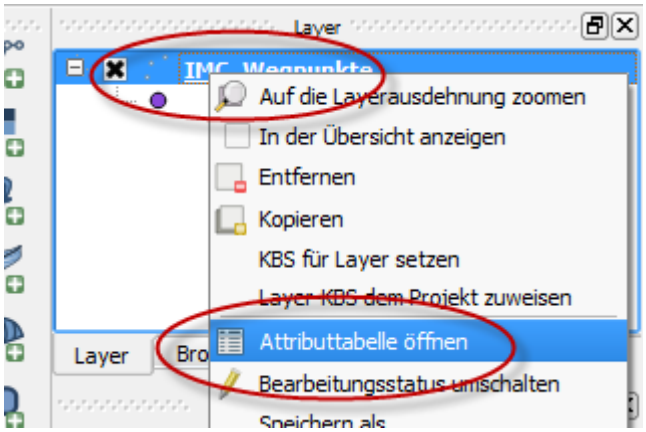
Unload both source shapefiles.



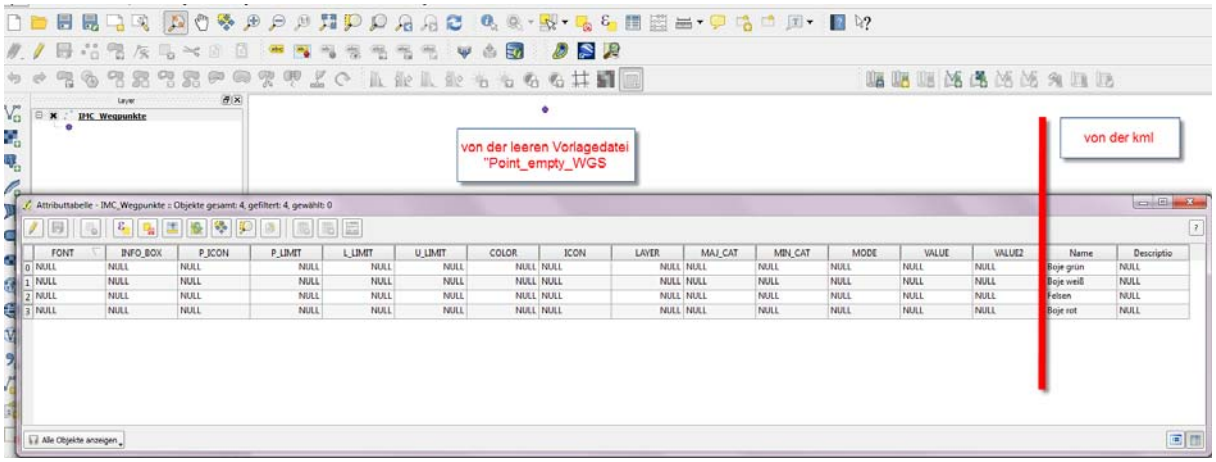
Load the new created file "IMC_Wegpunkte.shp".

3. Shape, adapt for use in the IMC

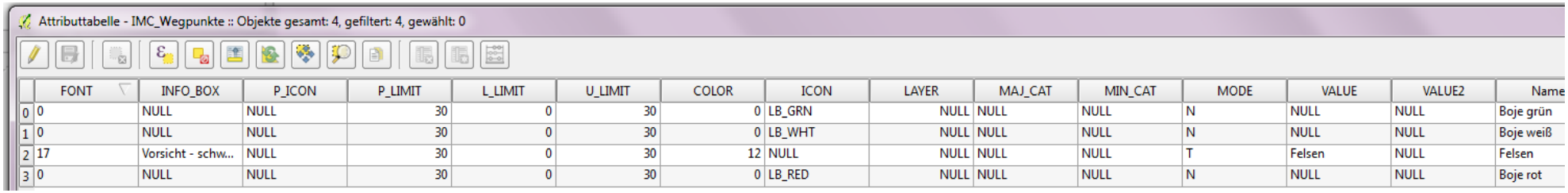
The next step is a styling from the attribut table, so that the IMC can read the shape file. Open the attribute table by clicking the right mouse button, "open attribute table".



In the picture You can see the open attribute table. The left part is important and contains all required attributes, the right part is the rest of the source file with names of waypoints (helpful for processing). Please style/fill the table in the form from the sample. For that shift into the edit mode (pin-button).

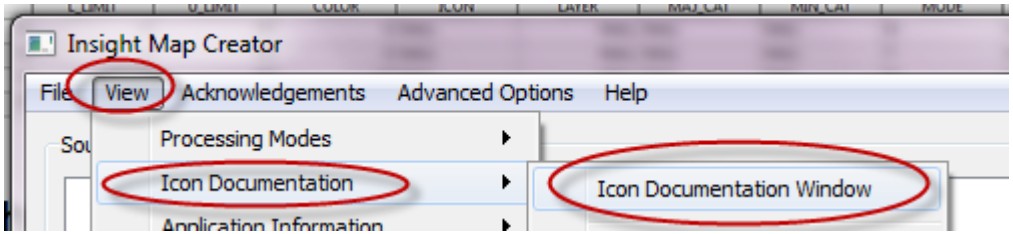


Use first the settings as in the sample. Later You can make own experiments. Use the IMC manual for more informations about attributes. Result:

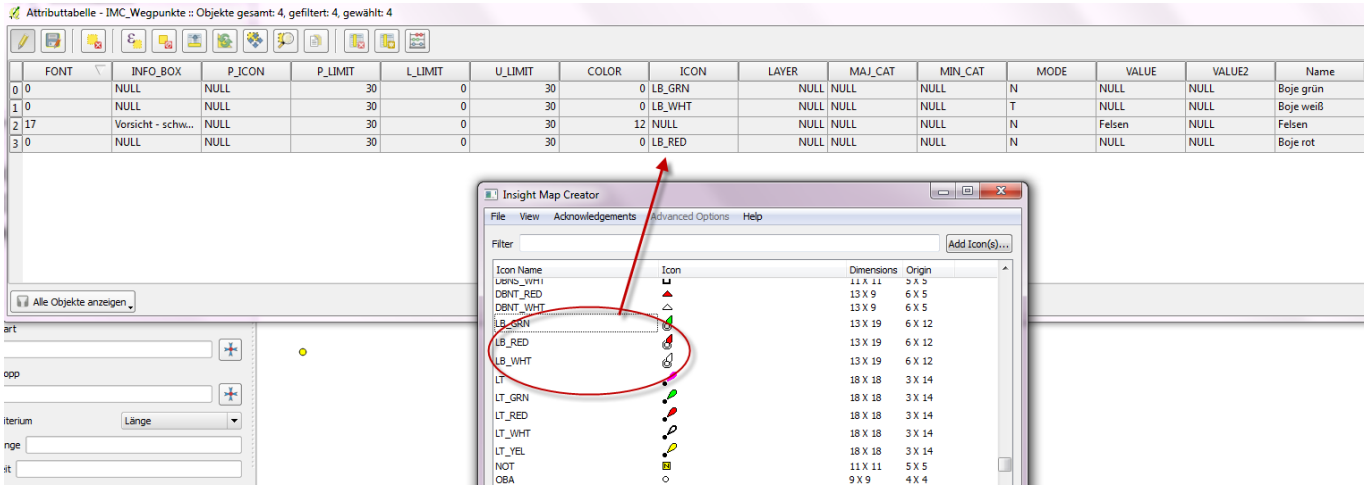


	FONT	INFO_BOX	P_ICON	P_LIMIT	L_LIMIT	U_LIMIT	COLOR	ICON	LAYER	MAJ_CAT	MIN_CAT	MODE	VALUE	VALUE2	Name
0	0	NULL	NULL	30	0	30	0	LB_GRN	NULL	NULL	NULL	N	NULL	NULL	Boje grün
1	0	NULL	NULL	30	0	30	0	LB_WHT	NULL	NULL	NULL	N	NULL	NULL	Boje weiß
2	17	Vorsicht - schw...	NULL	30	0	30	12	NULL	NULL	NULL	NULL	T	Felsen	NULL	Felsen
3	0	NULL	NULL	30	0	30	0	LB_RED	NULL	NULL	NULL	N	NULL	NULL	Boje rot

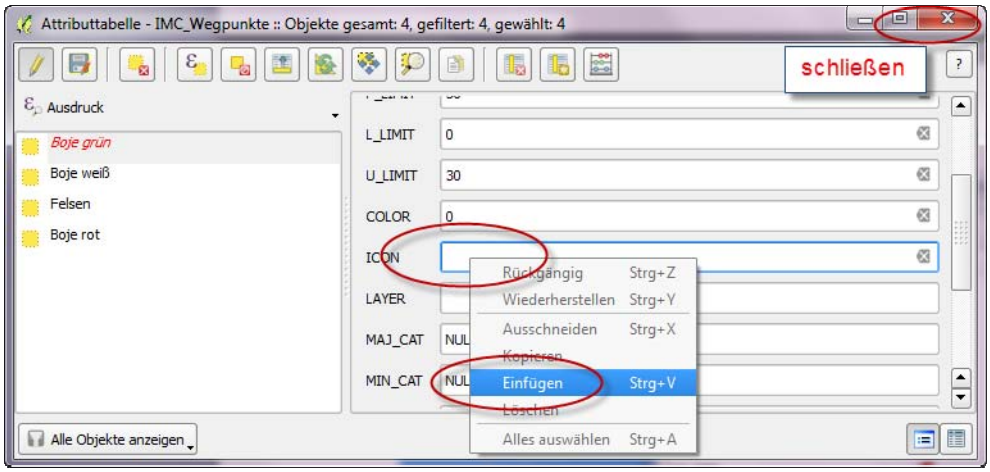
For an appropriate icon open the IMC:
View >>> Icon Documentation >>> Icon Dokumentation Window



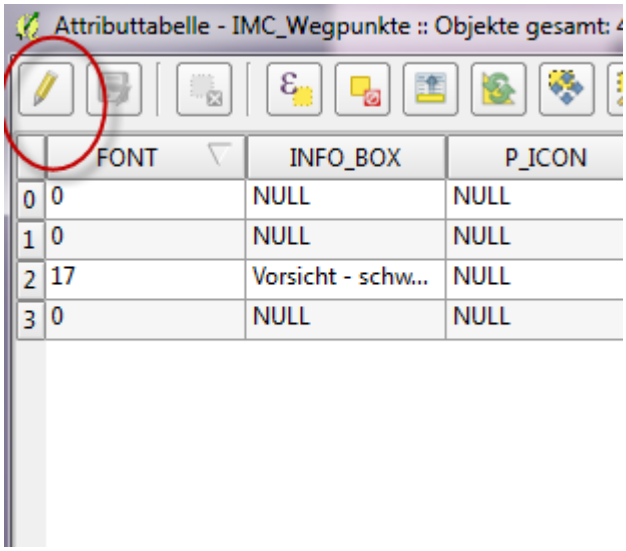
Select a symbol, click the name and use the STRG + C key for copy.



Go to the ICON field, right mouse button, "Formular open", go to the field "ICON" and paste the icon name with the right button. Confirm by clicking the cross. It is possible, that You must reopen the attribute table.



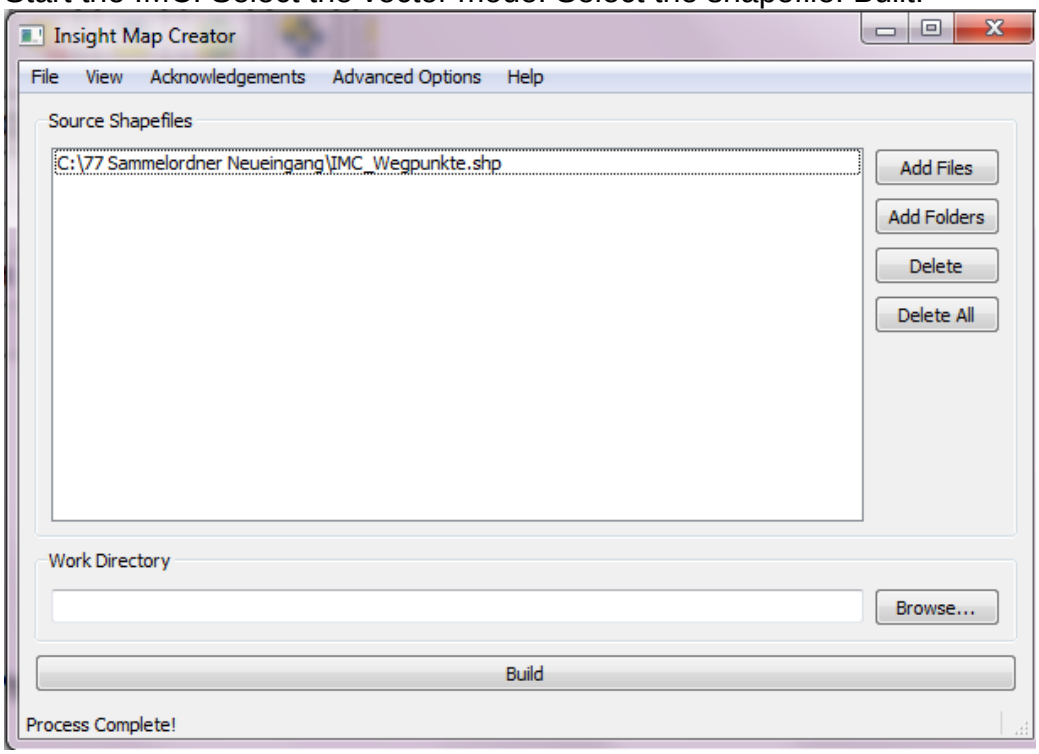
For finish editing the attribute table click the pin-button and save.



Unload the shape file and close the program.

4. AT5 generating in the IMC

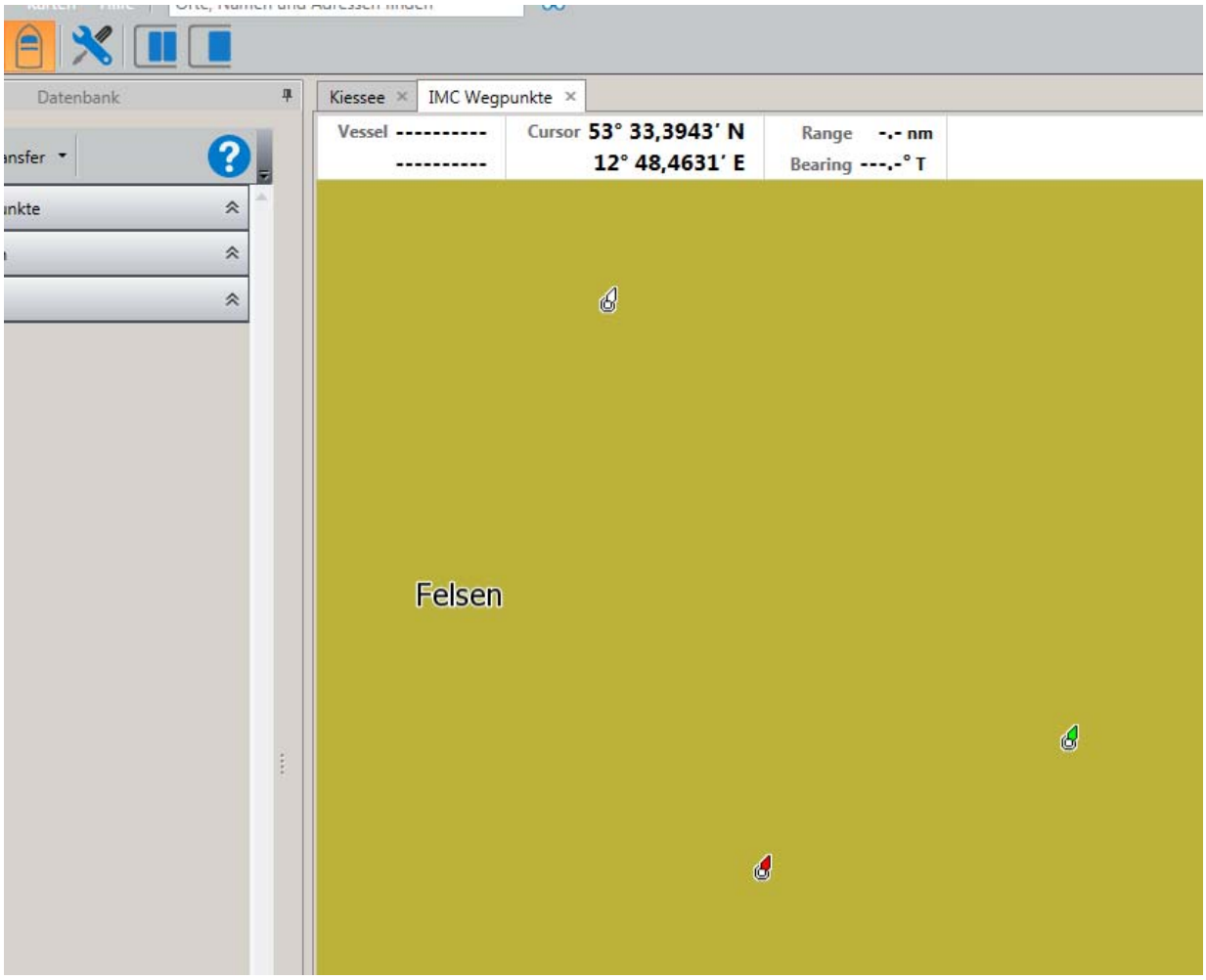
Start the IMC. Select the vector mode. Select the shapefile. Built.



The ready file You find in the subfolder "BoundAT5s" from the "Map Creator" folder. The files large.at5, medium.at5 and small.at5 (medium … and small … not always) now You can use in the unit. If You use this files together with other AT5 files with the same coordinates, rename the files, e. g. "**point**_large.AT5".

You can also export the lake files from RM and produce together with the point shape file a concerted AT5 file set.

Result in the Insight Planner:



In attachment You can find the required files: "Probe - Wegpunkte.kml" as sample and 6 files "Point_empty_WGS.*", all parts of one shape file, for own tests.

The IMC also have an attribute mode. But the solution with an empty, pre-attributed pattern file is possibly faster.