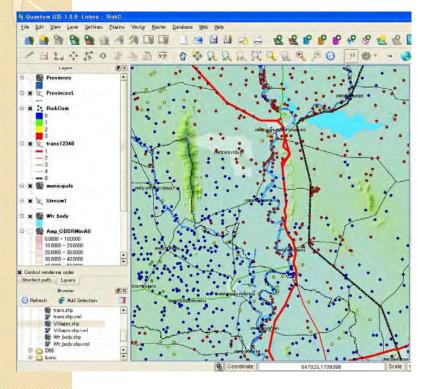
2. Making Inventory Maps (Risk Community)

2.1 Making risk community map



It is important to understand situation about risk community.

In this chapter, we make risk community map by using QGIS and Excel.

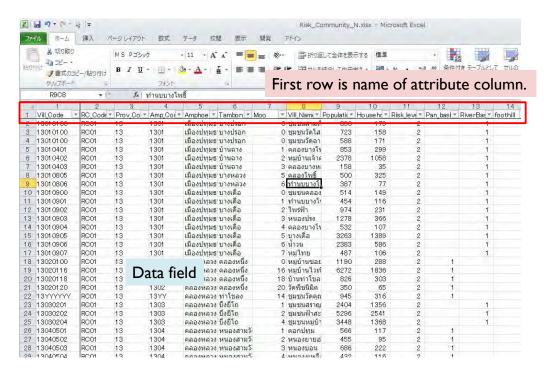
Source files
/ Risk_Community_N.xls
(list of risk community)

/ village (shape file)
/ provinces (shape file)
/ RegionC (shape file)
/ trans (shape file)
/ Wtr_body (shape file)
/ Stream (shape file)
/ thailand.osm (openstreetmap)
/ dem 90 u ft (image file)

2. Making Inventory Maps

2.1.1 Make risk community shape file

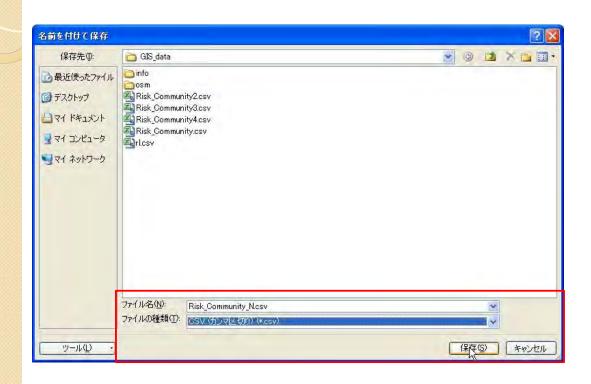
Risk_Community_N.xlsx is Excel format file. This file contains Risk community profiles (location, risk level population ...).





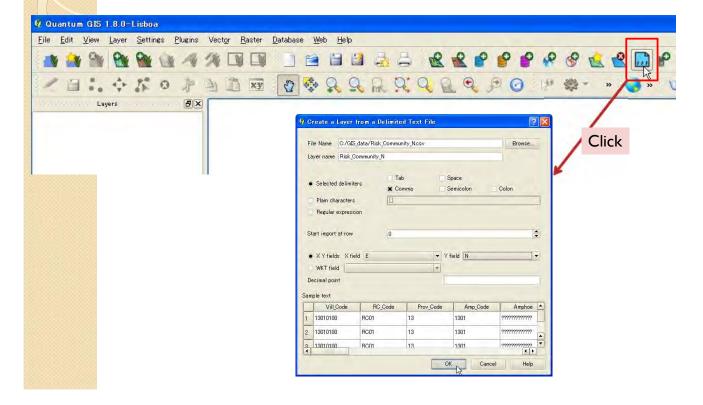
2.1.1 Make risk community shape file

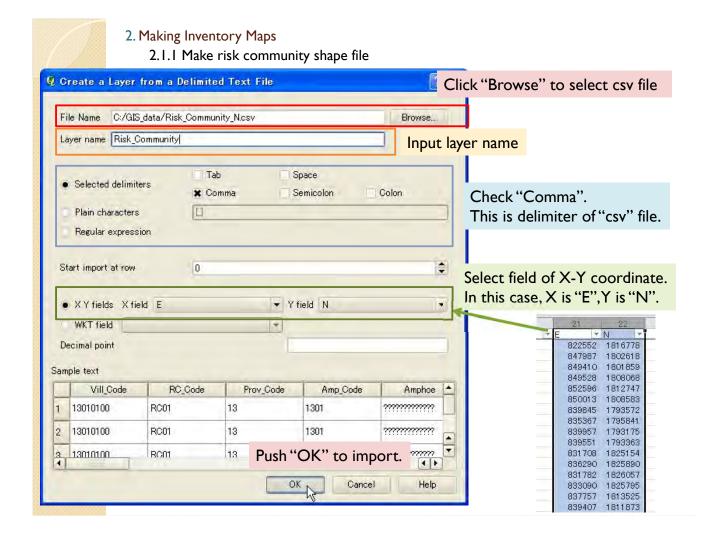
In order to import the Excel data, save the data sheet to "csv" format file.



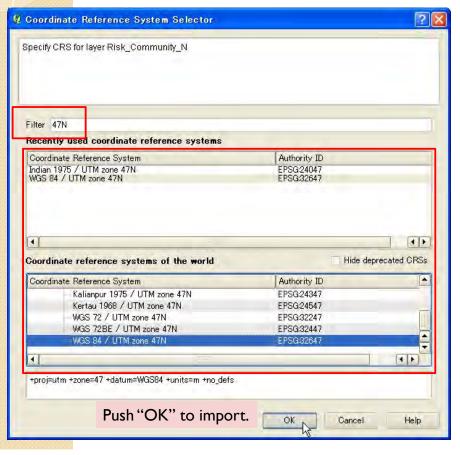
- 2. Making Inventory Maps
 - 2.1.1 Make risk community shape file

Open QGIS and push "Add Delimited Text Layer" button to import the "csv" file.



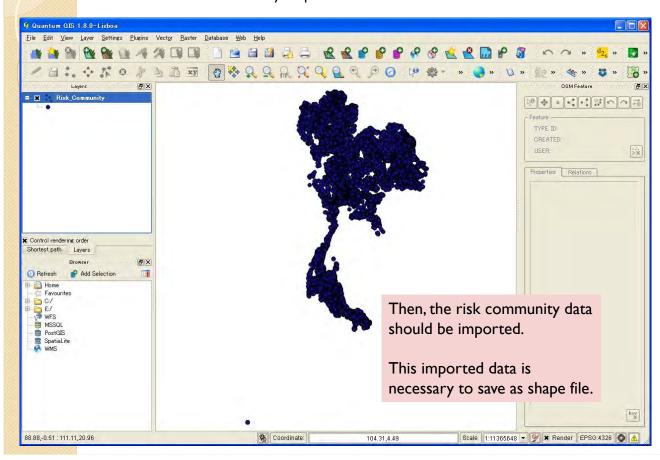


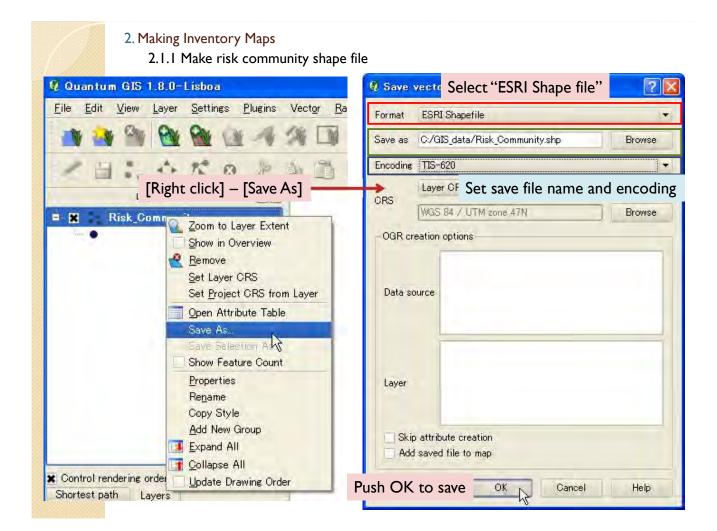
2.1.1 Make risk community shape file

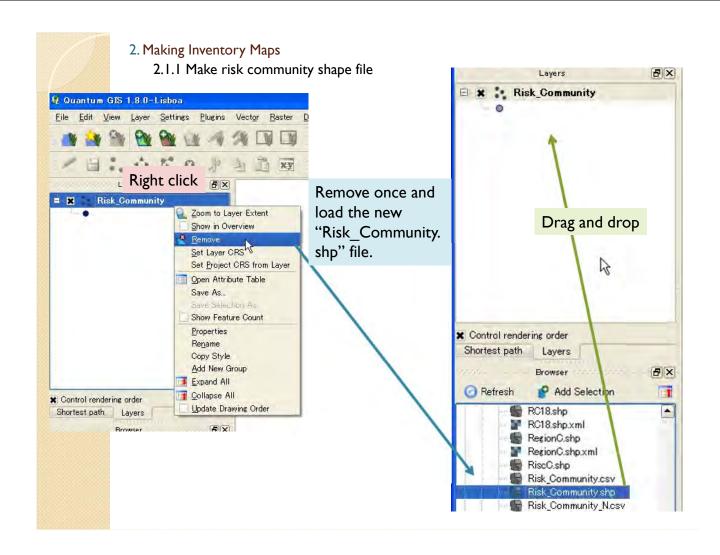


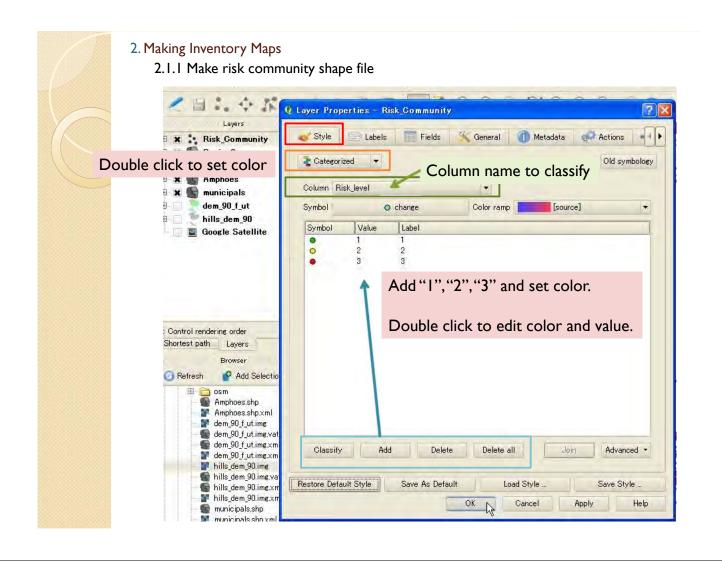
Next, set CRS (Coordinate Reference System) as "WGS 84 / UTM zone 47N".

2.1.1 Make risk community shape file











2.1.1 Make risk community shape file

Notes:

No location information communities are at "0, 0".

Other community location data are also imprecise. In addition, some risk communities are double counted in the list (Excel file). Some parts were removed, but it is not perfect. Please pay attention if you use this data.

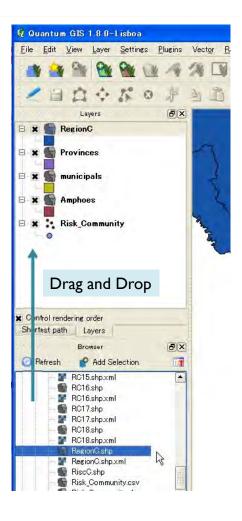


2. Making Inventory Maps

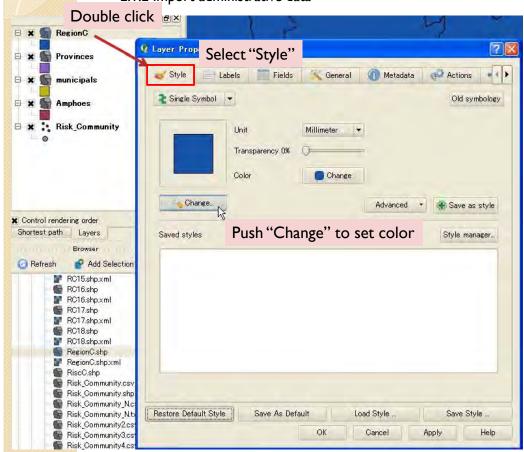
2.1.2 Import administrative data

Import following administrative data from "GIS_data" folder.

/ RegionC.shp / Provinces.shp / municipals.shp / Amphoes.shp / Villages.shp



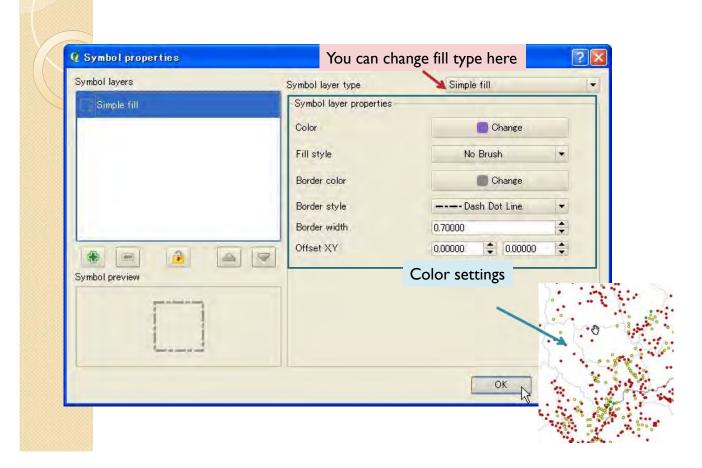
2.1.2 Import administrative data



Set colors at style tab as you like.

2. Making Inventory Maps

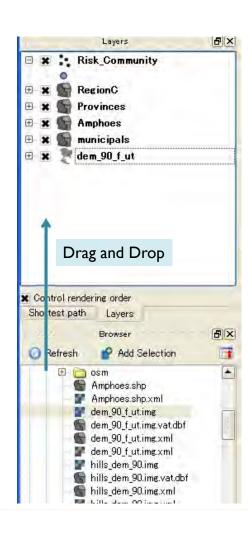
2.1.2 Import administrative data

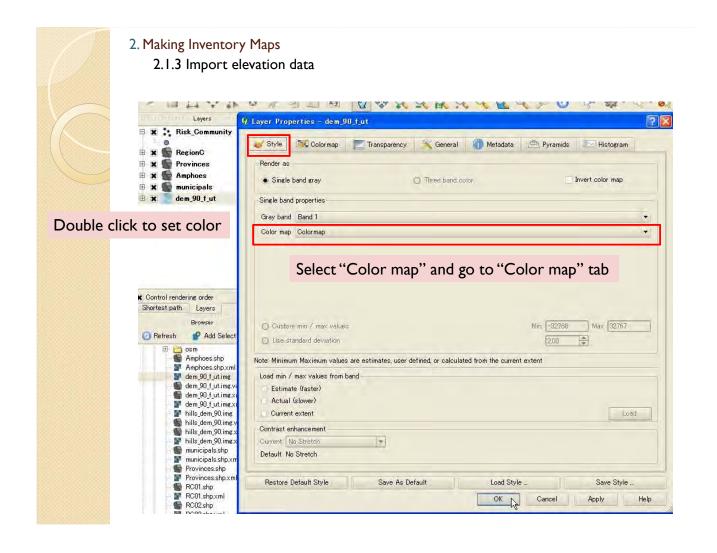




2.1.3 Import elevation data

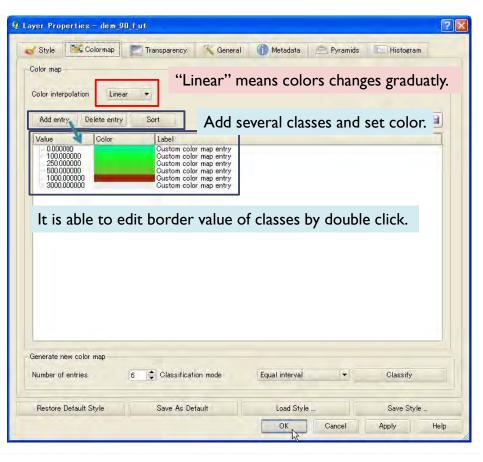
Import "dem_90_f_ut" from "GIS_data" folder.





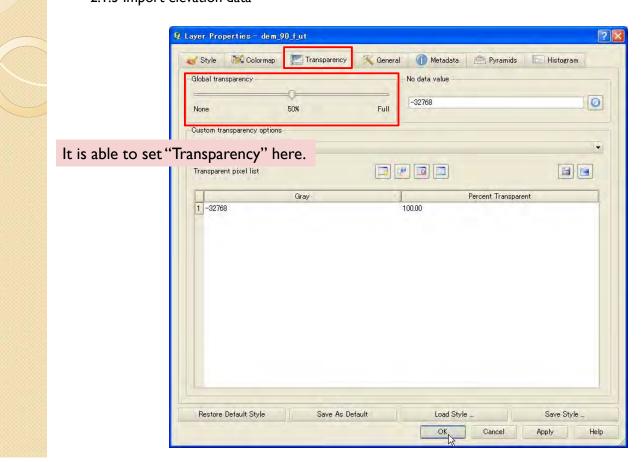


2.1.3 Import elevation data



2. Making Inventory Maps

2.1.3 Import elevation data



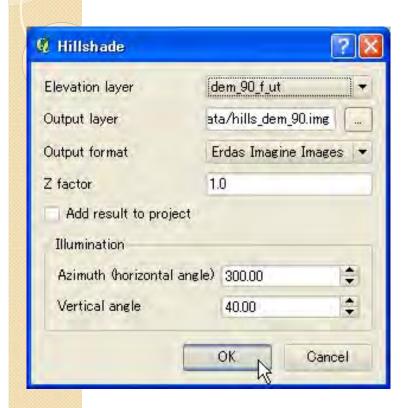
2.1.4 Making hill shade data

Select [Raster] - [Terrain analysis] - [Hillshade] to make hill shade.



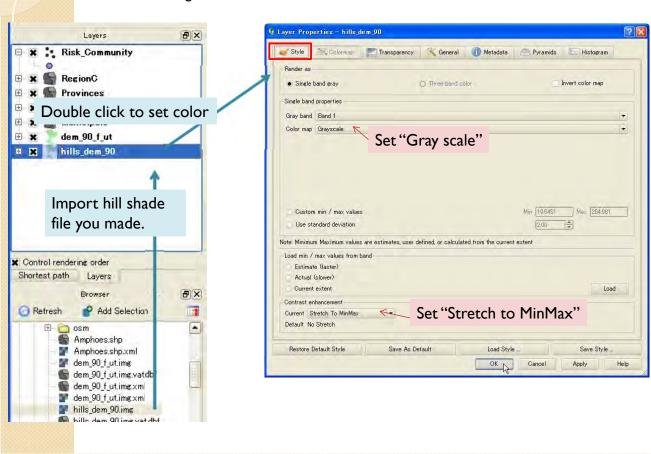
2. Making Inventory Maps

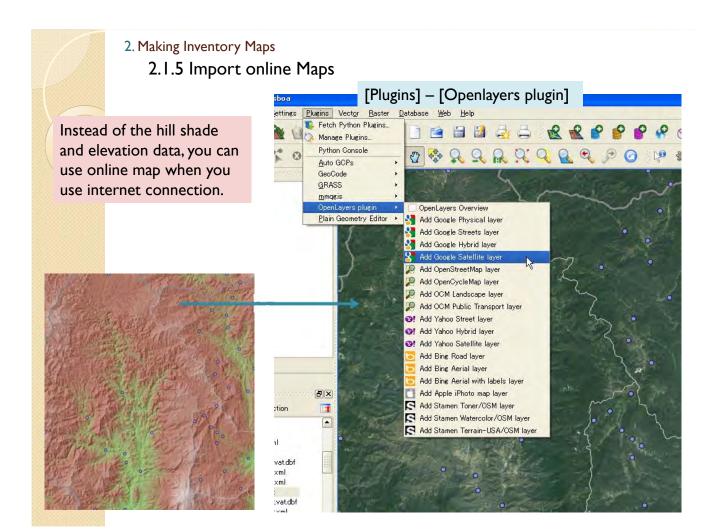
2.1.4 Making hill shade data

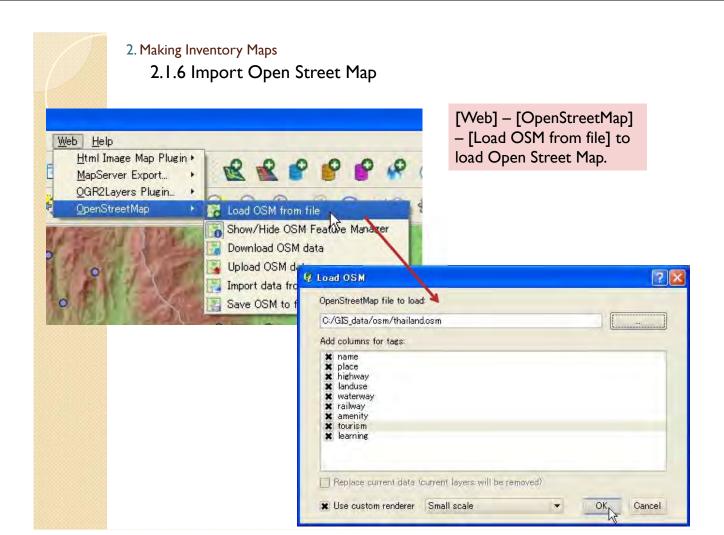


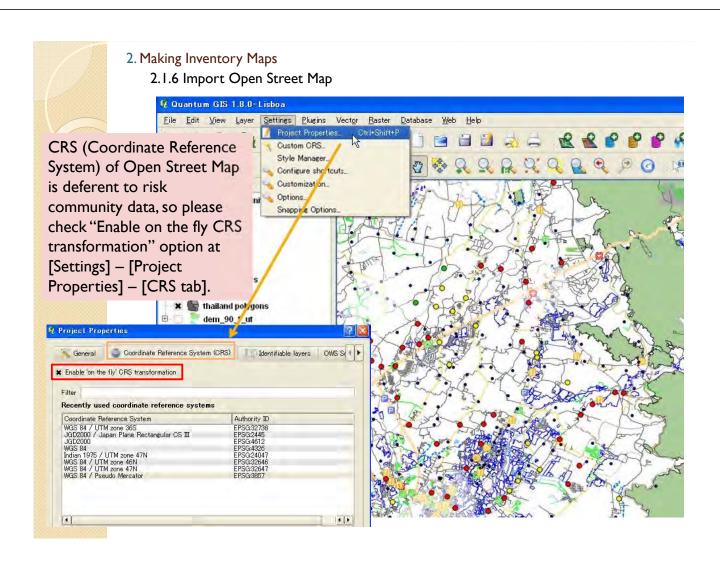
Select as these settings and push OK to make hill shade.

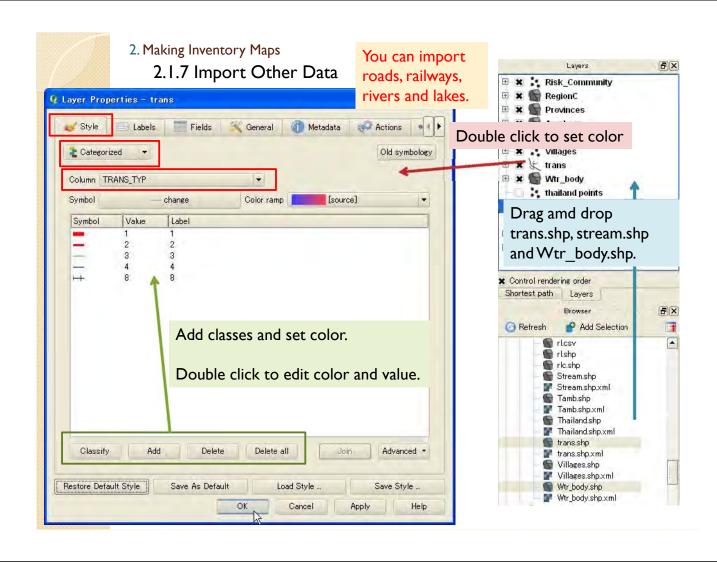
2.1.4 Making hill shade data





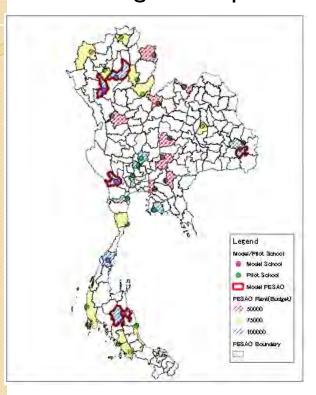






3. Making Inventory Maps (Disaster Education)

3.1 Making model/pilot schools and ESAO map



In this chapter, we make model/pilot schools and ESAO map by using QGIS and Excel.

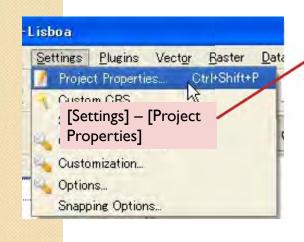
I.Import Shape file (geographical data) and Excel file (disaster educarion information)

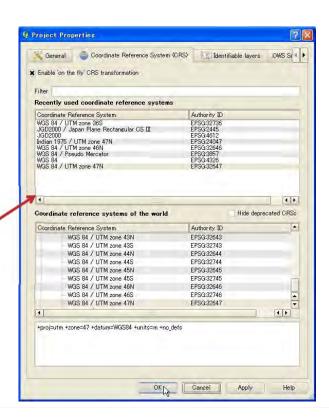
- 2.Integrate both into one shape file
- 3. Make coloring
- 4. Make inventory maps
- 5.Import and set color for risk area
- 6.Make risk area map with ESAO

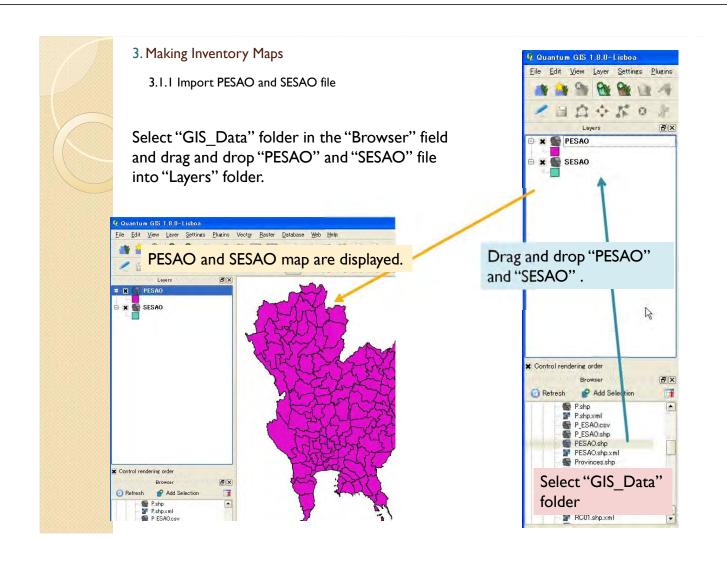


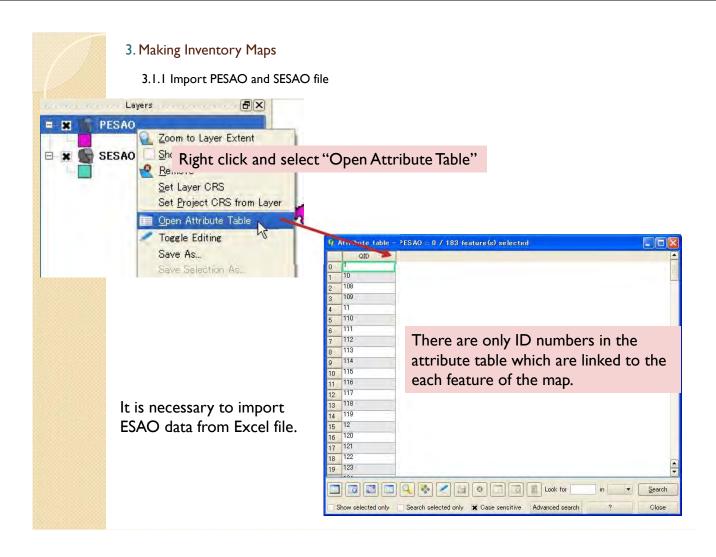
3.1.1 Import PESAO and SESAO file

At first, make sure that Coordination Reference System (CRS) is set as WGS84 / UTM 47N and "Enable on the fly' CRS transformation" is checked.

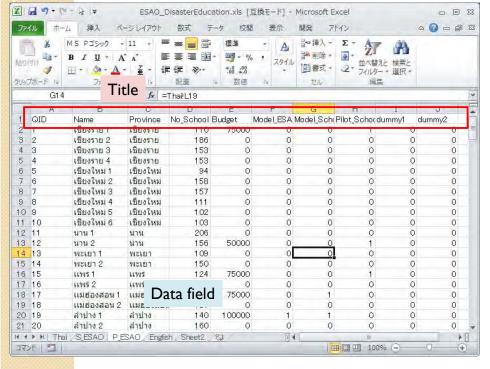








3.1.2 Import PESAO and SESAO data from Excxel file



Open "ESAO_DisasterEdu cation.xls".

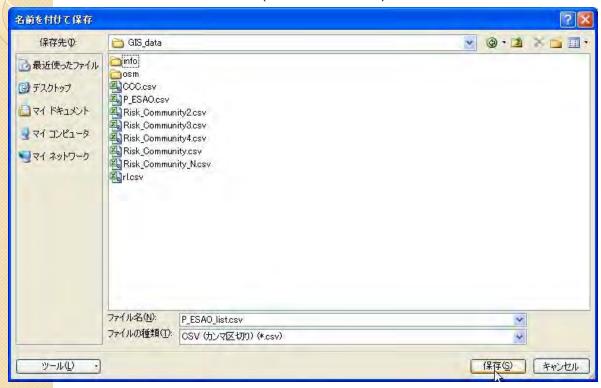
Table to import into GIS must be simple table like this figure.

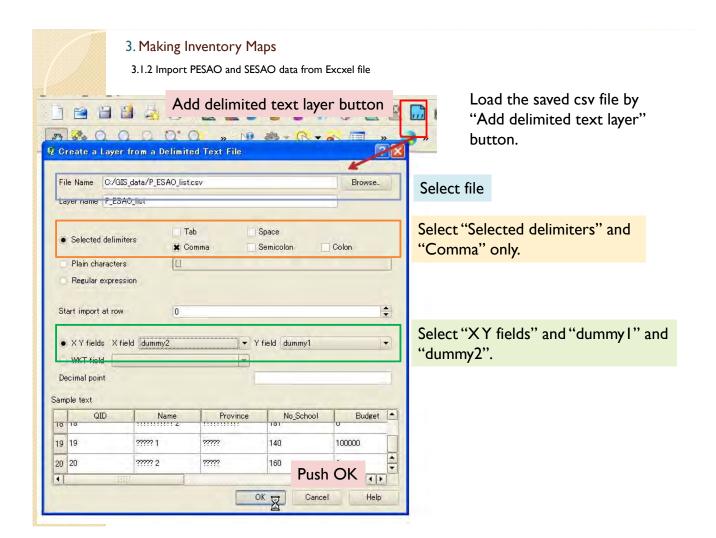
The first row is title of the attribute column. Write only alphabet and "_". Do not use ""(space), "-", "," ...

Data field is below. Do not use ";".

3.1.2 Import PESAO and SESAO data from Excxel file

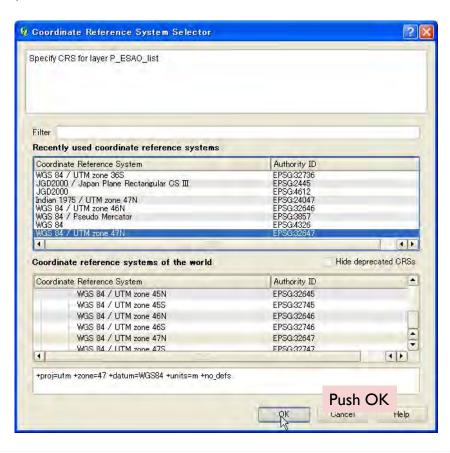
Save "P_ESAO" and "S_ESAO" sheet as "P_ESAO_list.csv" and "S_ESAO_list.csv". Please use file format as "CSV (comma delimited)".

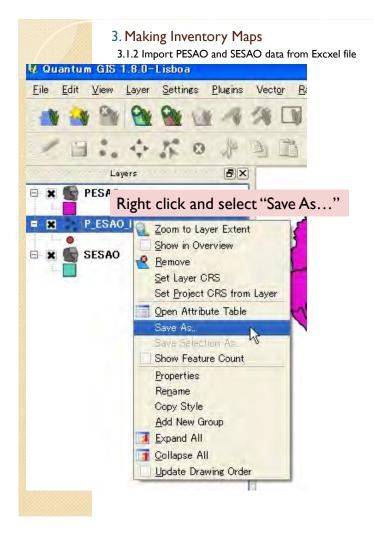






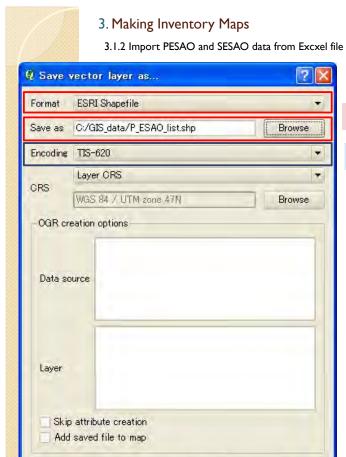
3.1.2 Import PESAO and SESAO data from Excxel file





Then, the data will imported.

This is temporary layer, thus save this layer as new file.



OK

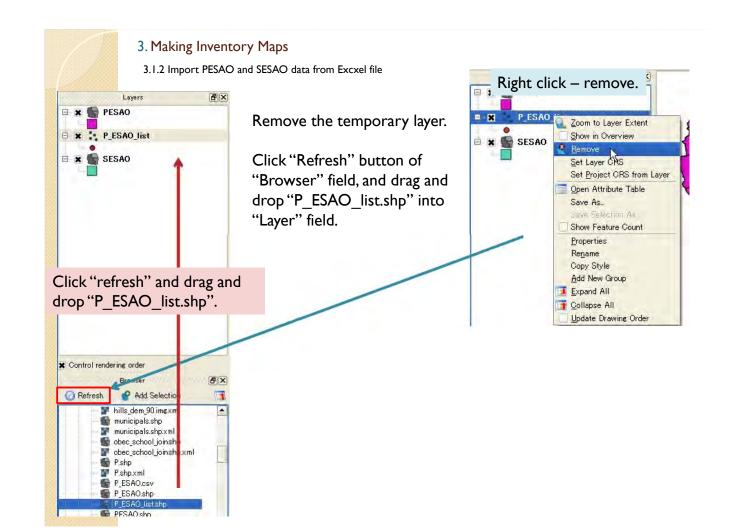
Cancel

Help

Select format and file name.

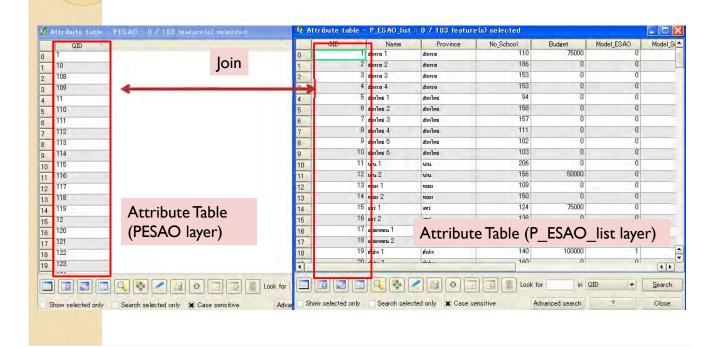
Select "Encoding" as "TIS-620".

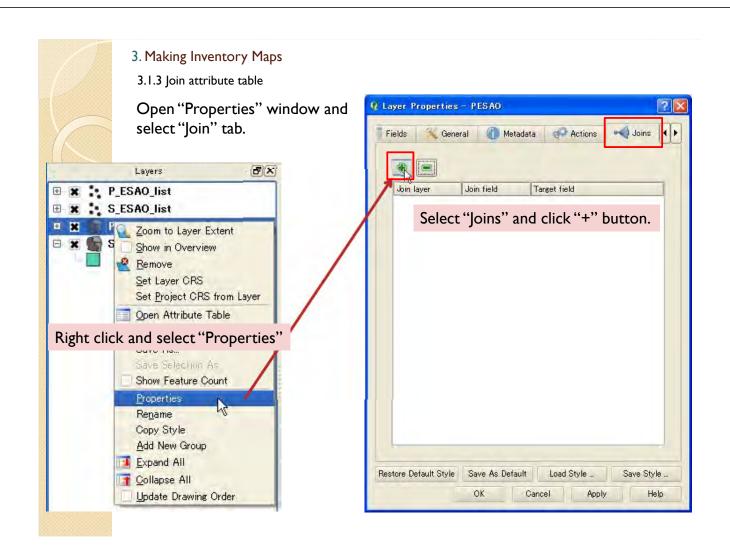
Push OK



3.1.3 Join attribute table

In next step, attribute table of "P_ESAO_list" and "S_ESAO_list" will be joined into "PESAO" and "SESAO" layers.

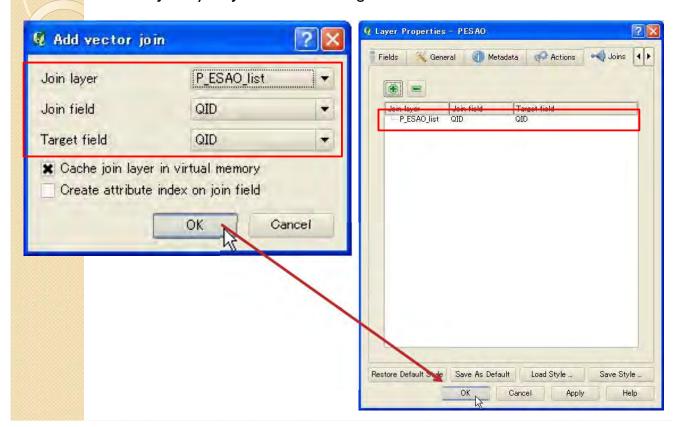






3.1.3 Join attribute table

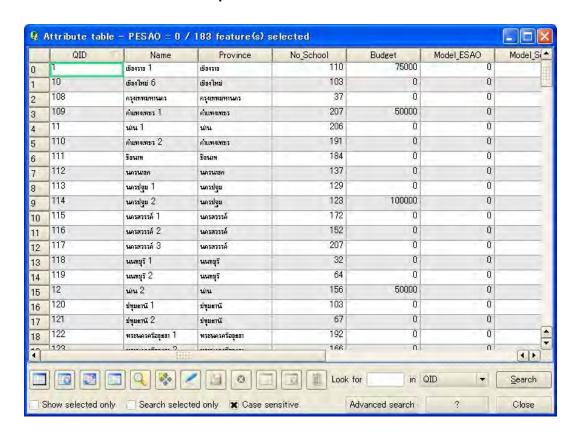
Select "Join layer", Join field" and "Target field".

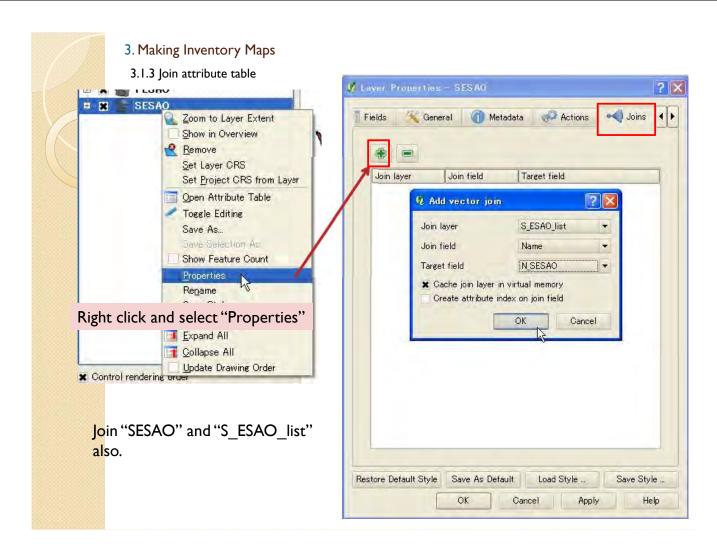


3. Making Inventory Maps

3.1.3 Join attribute table

Then, attribute table should be joined.

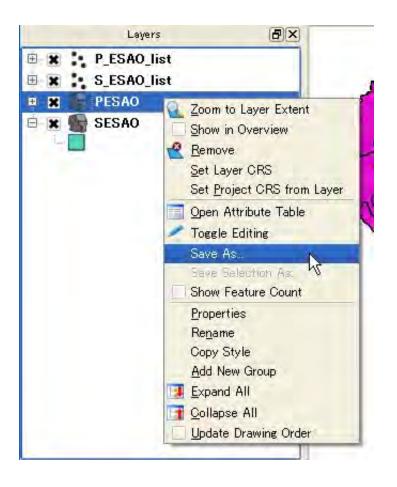


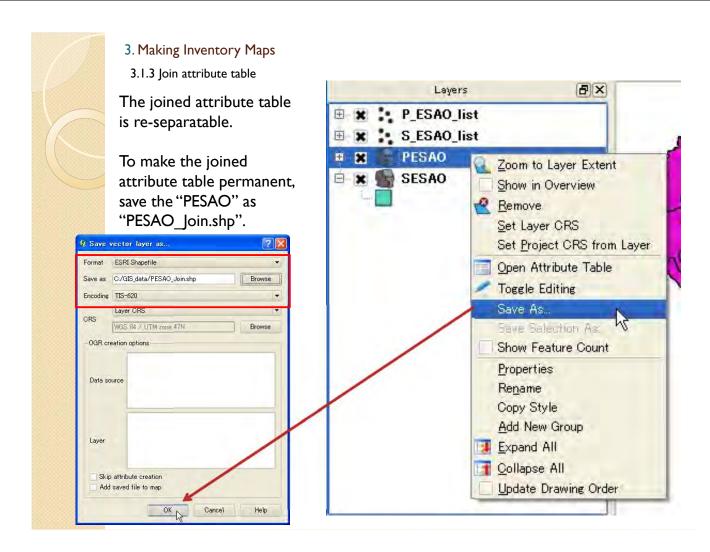


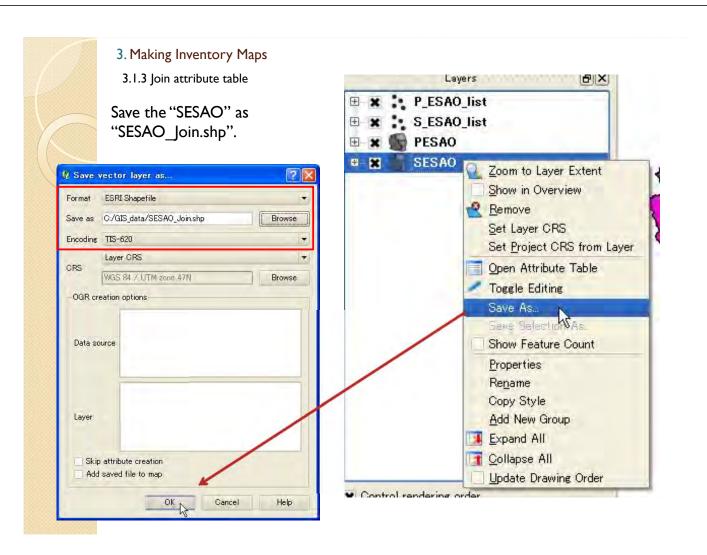
3.1.3 Join attribute table

The joined attribute table is re-separatable.

To make the joined attribute table permanent, save the "PESAO" and "SESAO" as new file.







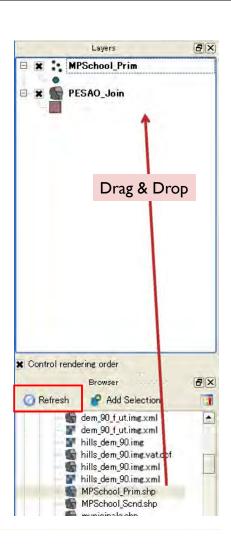


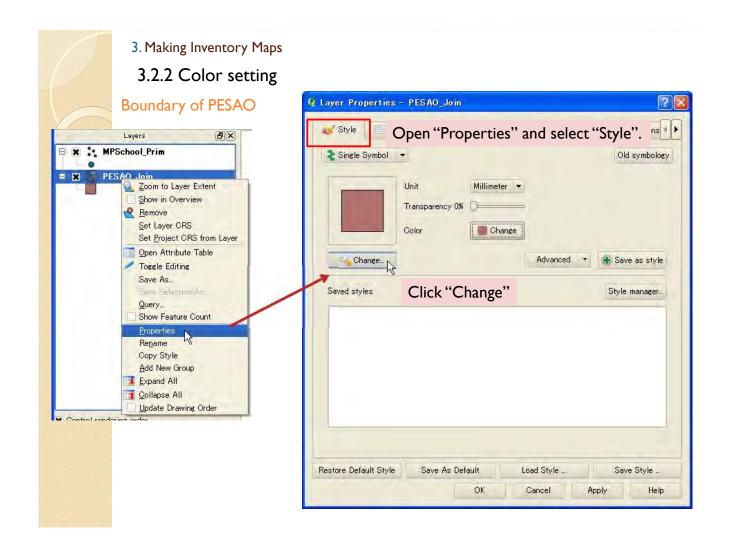
- 3.2 Making PESAO map
- 3.2.1 Import data

Click "Refresh", and drag and drop "PESAO_Join" and "MPSchool_Prim" (pilot school data).

After you made joined shape files, "PESAO_Join" and "SESAO_Join", once, it is not necessary to remake these shape file. You can use these file directly to make inventory maps.

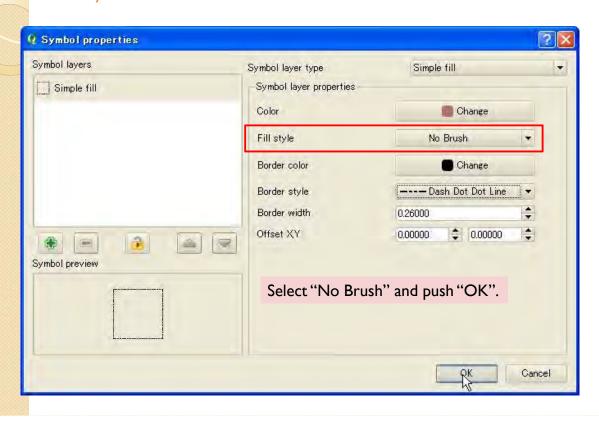
In case you want to update the data, it is required to remake or edit these files.

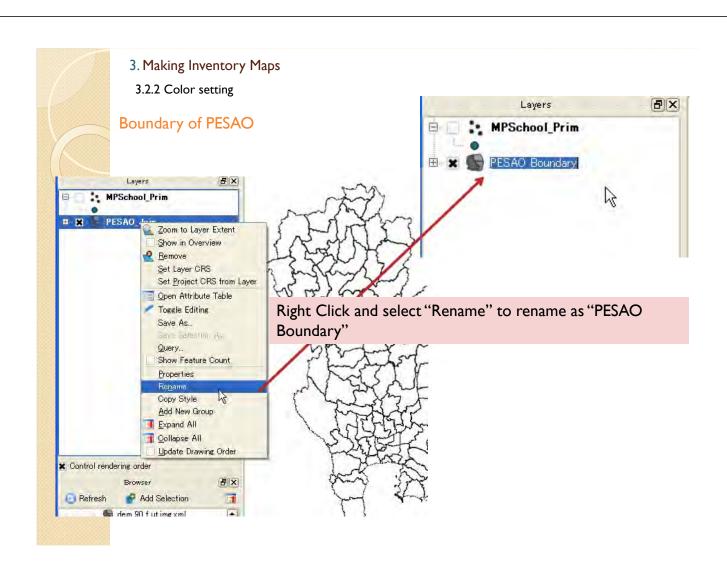


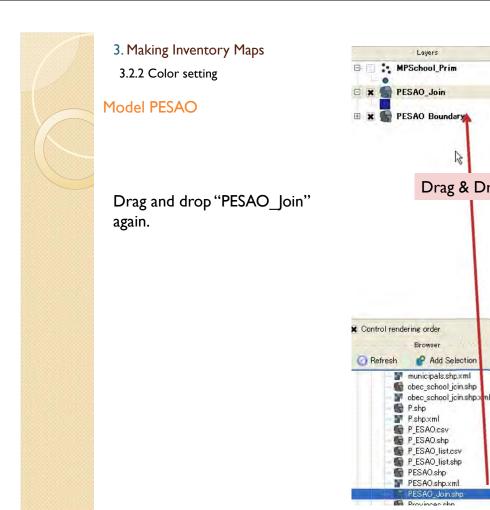


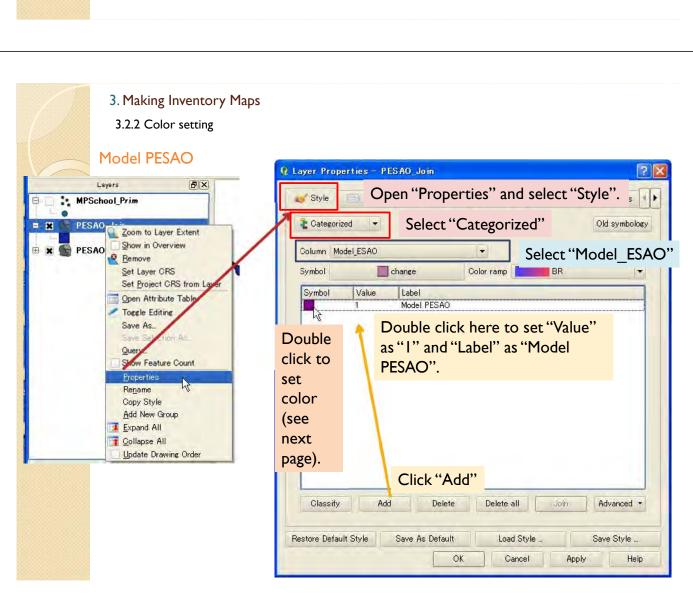
- 3. Making Inventory Maps
- 3.2.2 Color setting

Boundary of PESAO





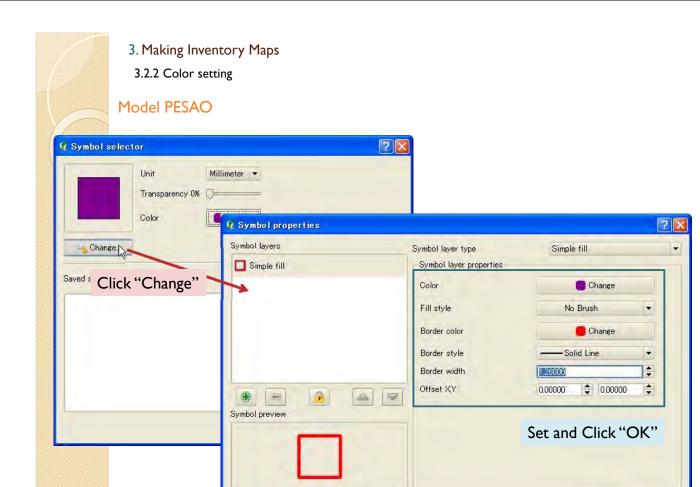




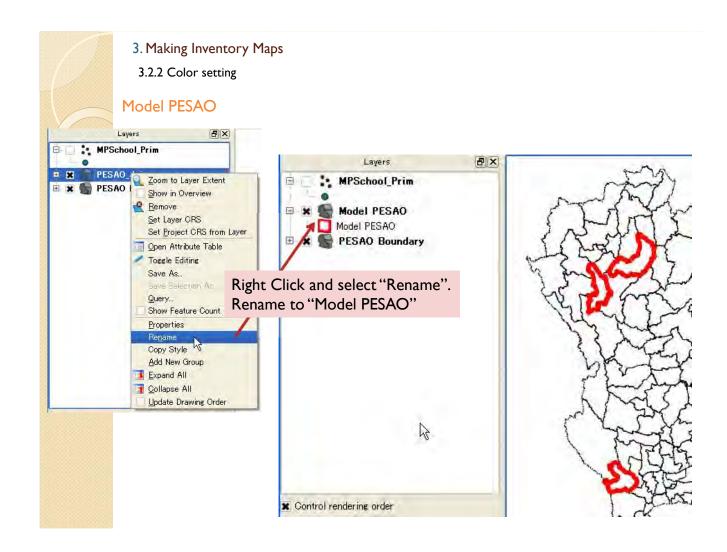
8 X

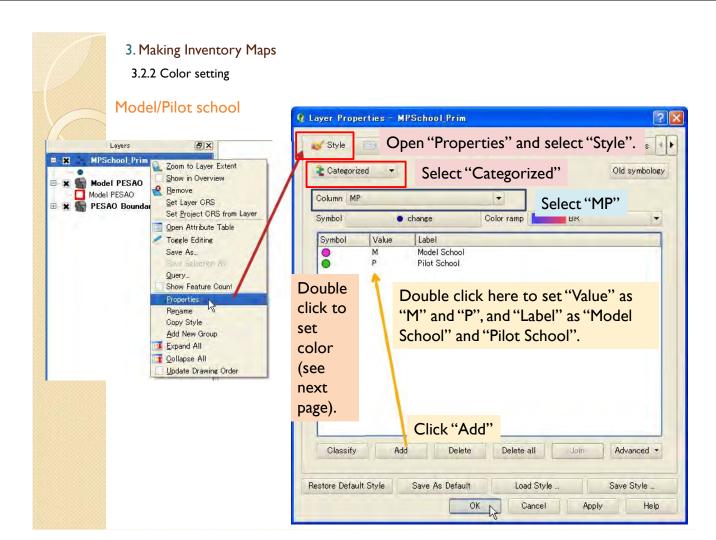
BX

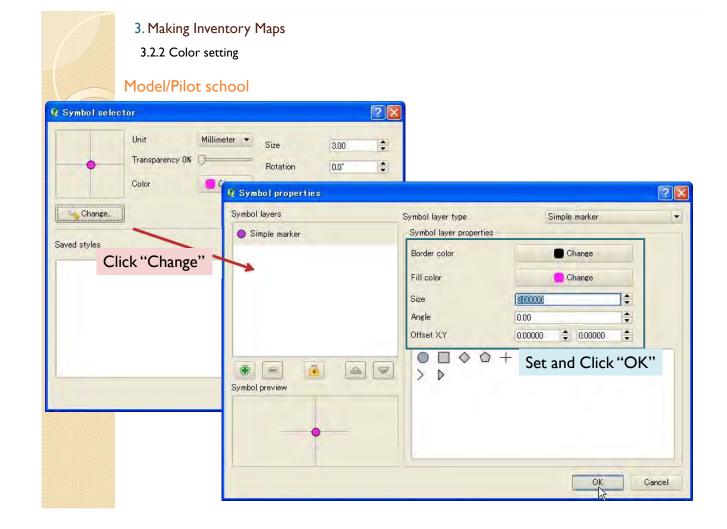
Drag & Drop

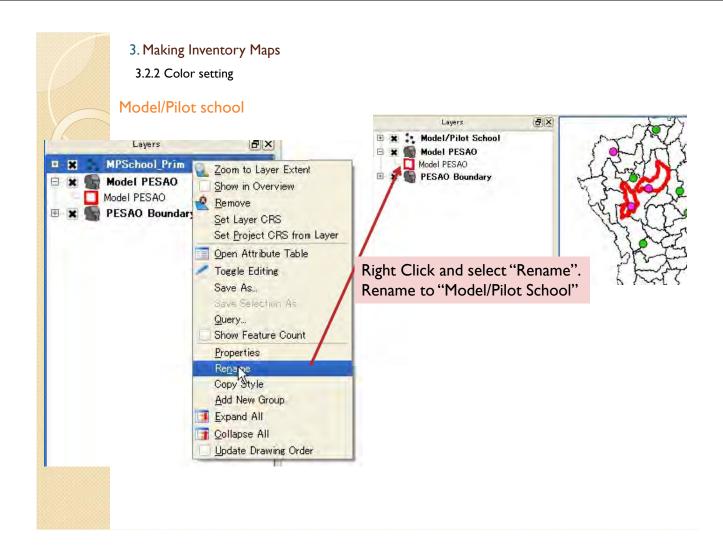


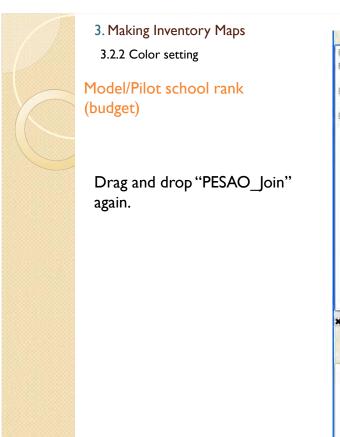
Cancel



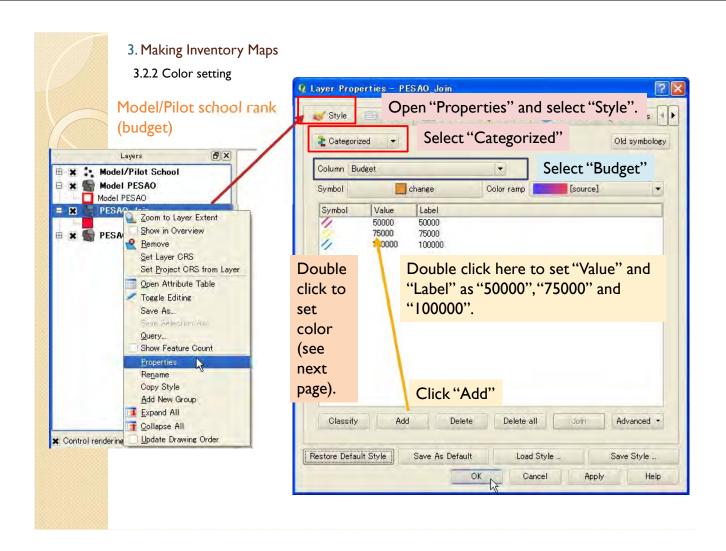


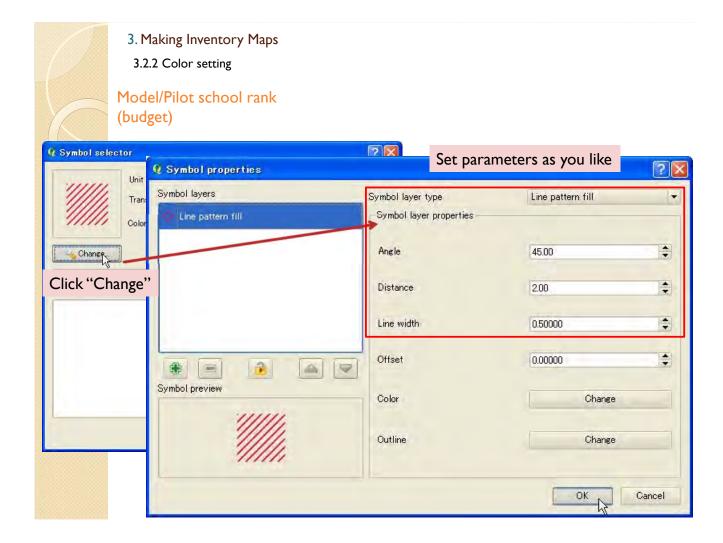


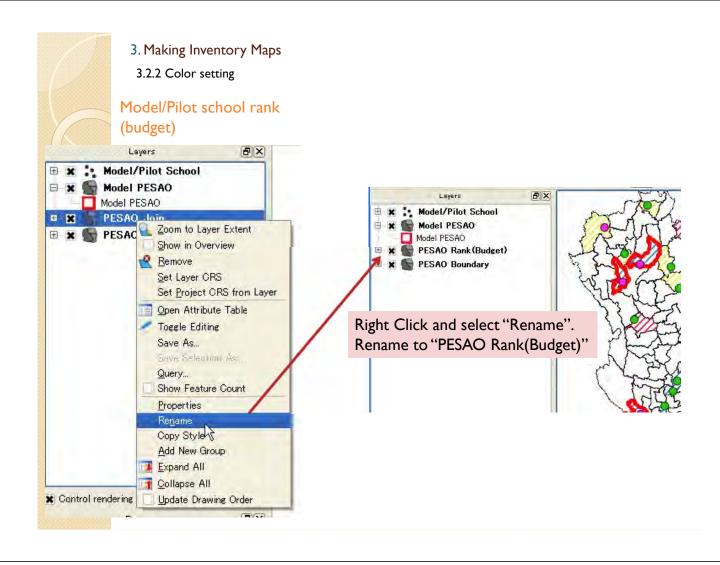


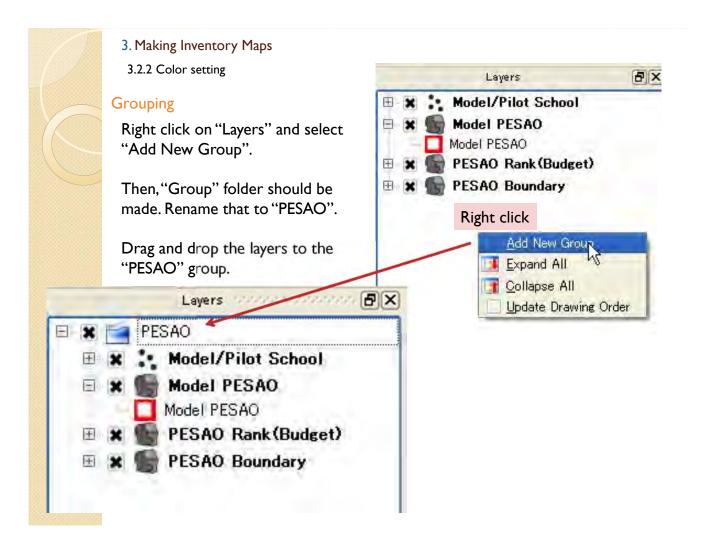


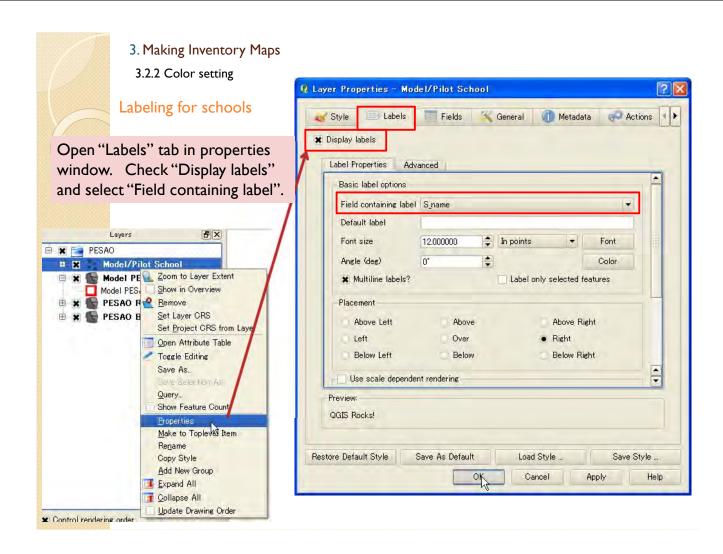


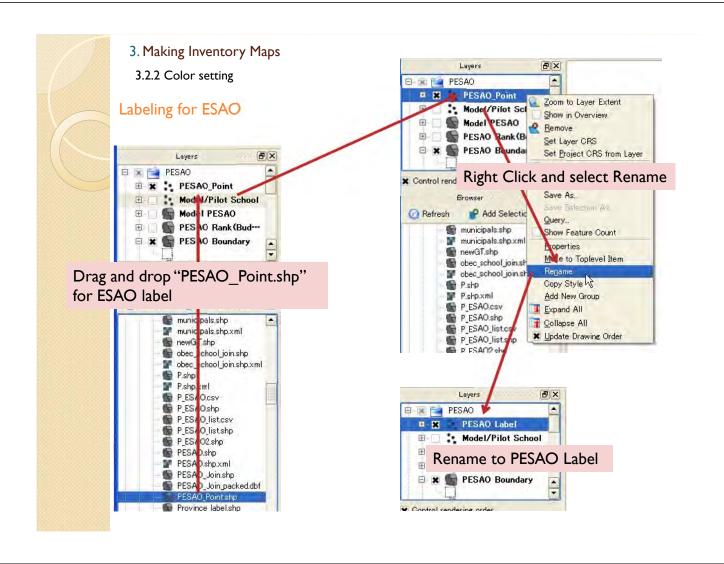


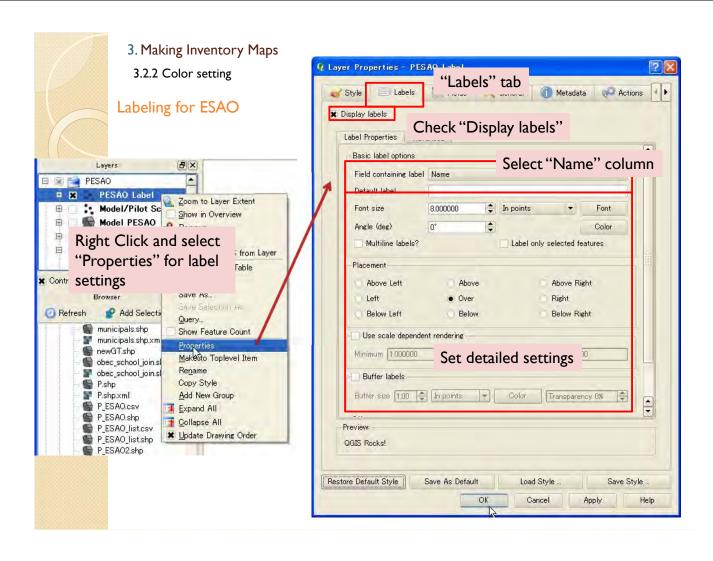








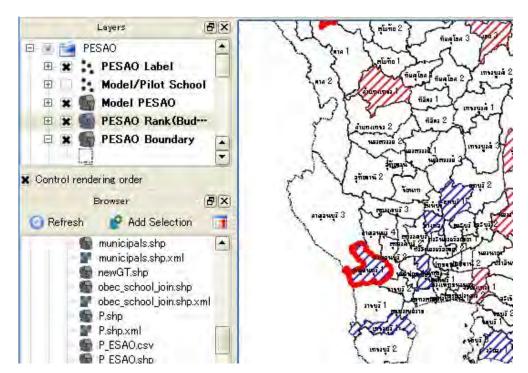


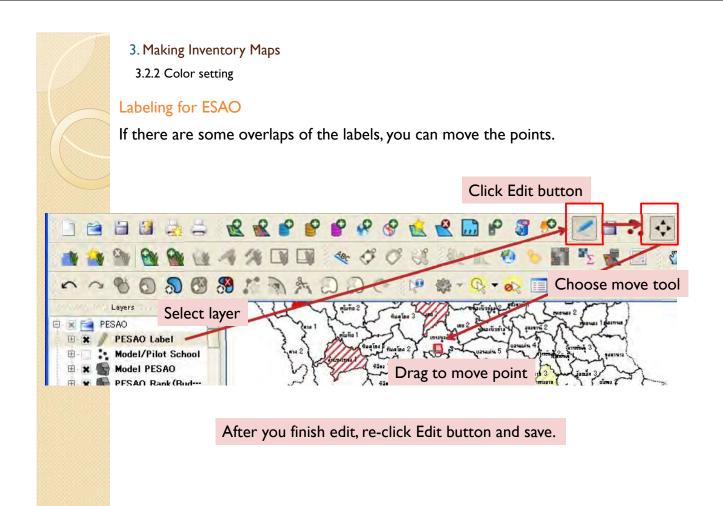


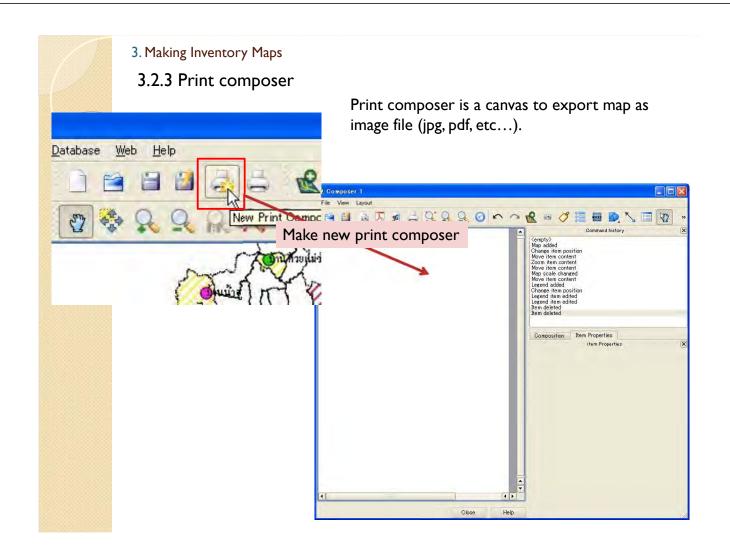
- 3. Making Inventory Maps
- 3.2.2 Color setting

Labeling for ESAO

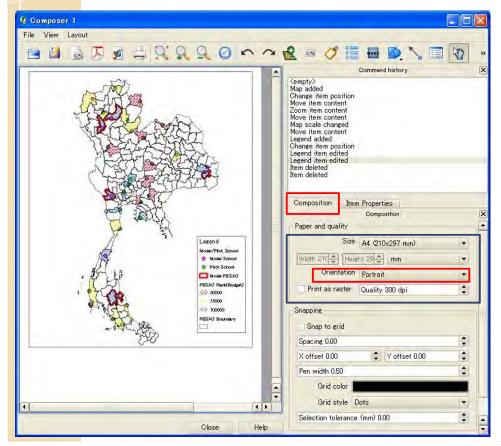
Then, you can see labels for ESAO.



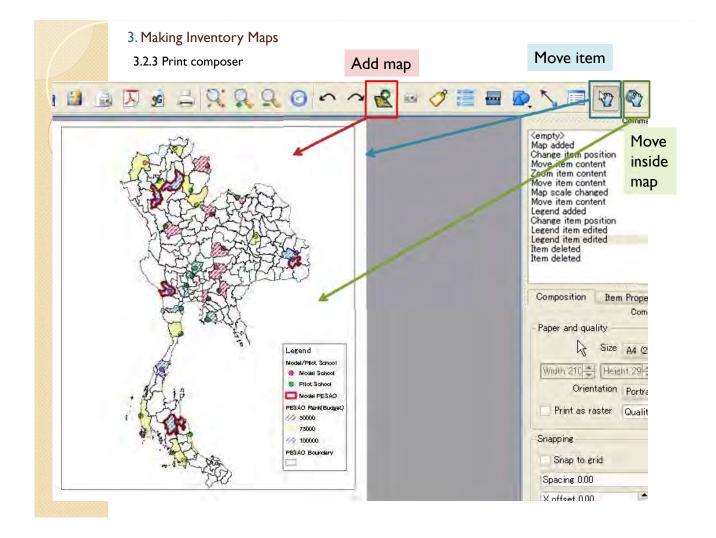




3.2.3 Print composer

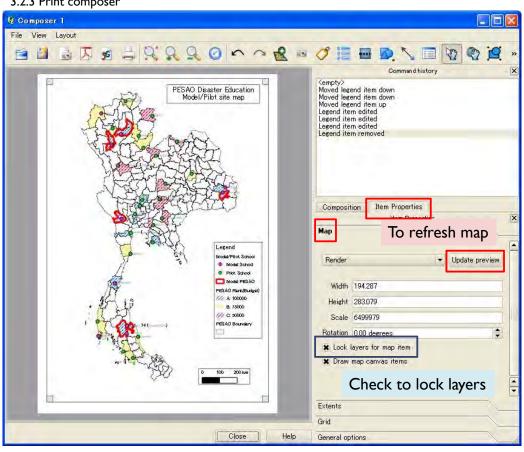


Lower right tabs are properties for the canvas.



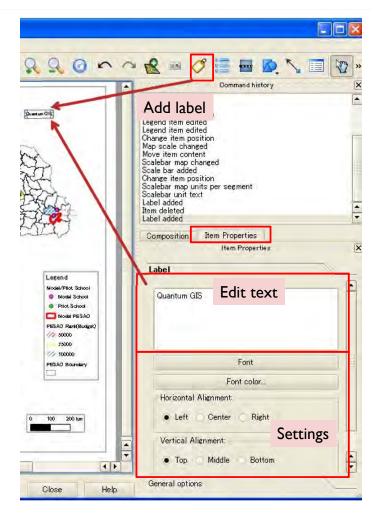


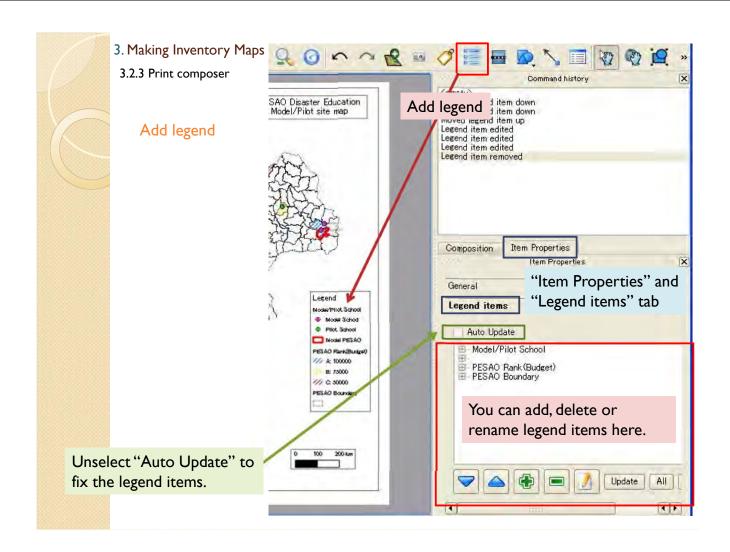
3.2.3 Print composer



- 3. Making Inventory Maps
- 3.2.3 Print composer

Add label



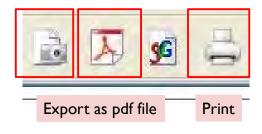




3.2.3 Print composer

It is able to export map to file.

Export as image file





3.2.3 Print composer

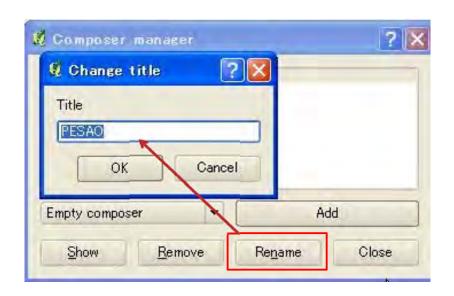
After you made composer once, you can recall the canvas from this button.



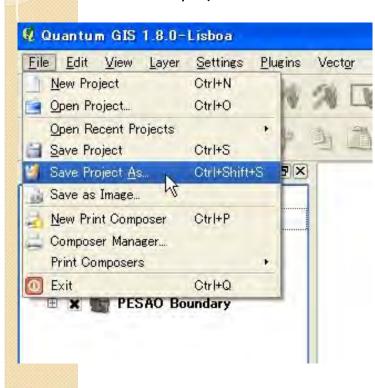
3. Making Inventory Maps

3.2.3 Print composer

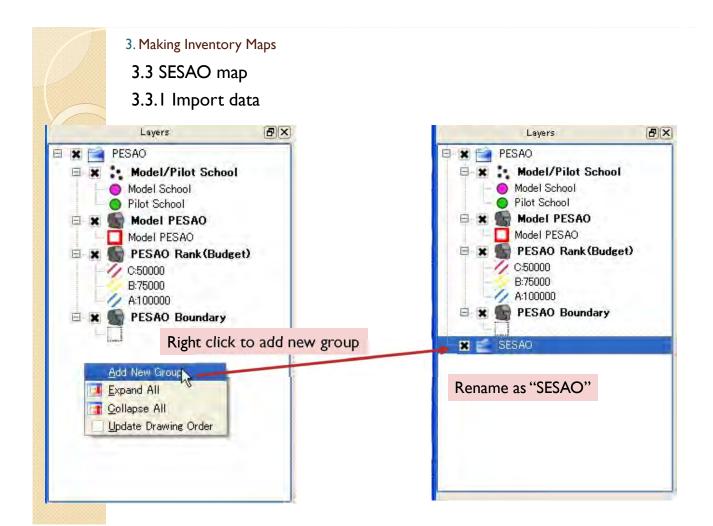
It is able to rename the canvas. Please rename the "Composer I" to "PESAO".



3.2.4 Save project



After you made map, please don't forget to save project.

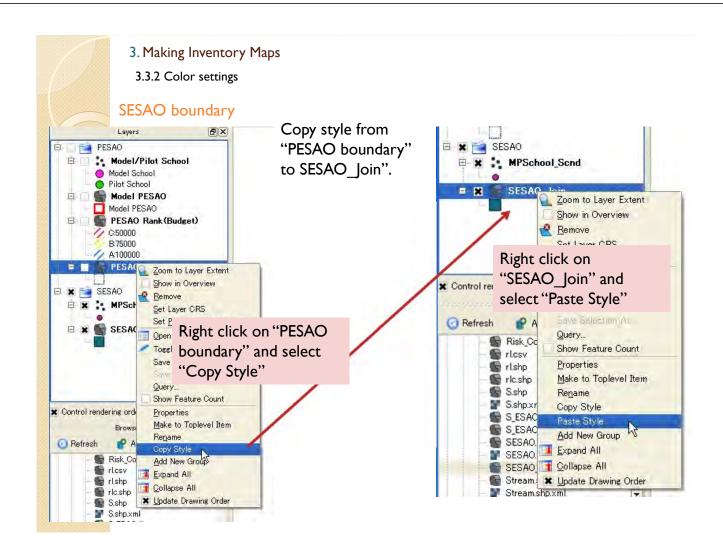


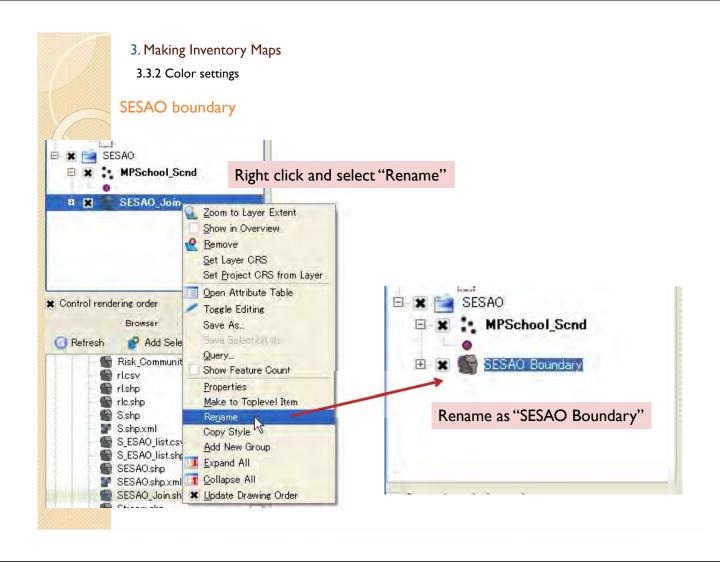


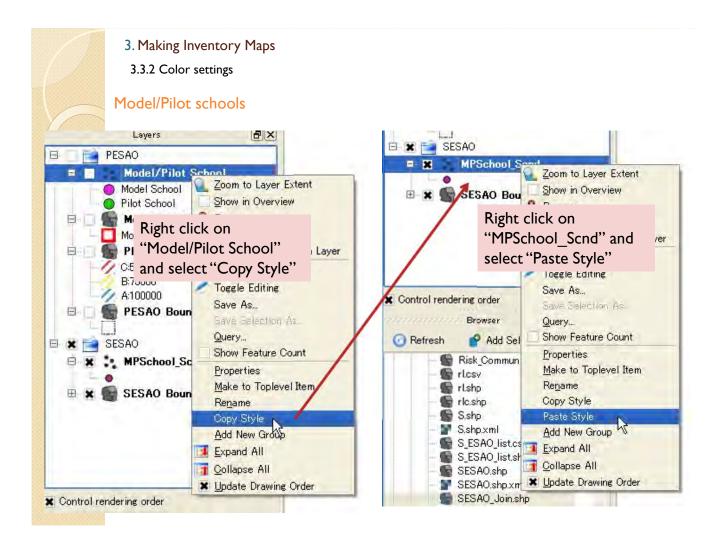
Drag and drop "MPSchool_Scnd.shp" and "SESAO_Join.shp" into "Layers field.

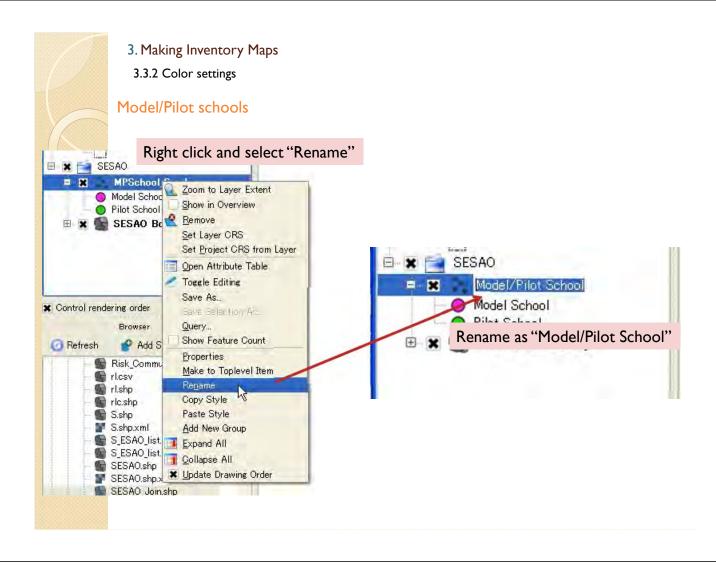
After these files are imported, please move these features to under "SESAO" group.









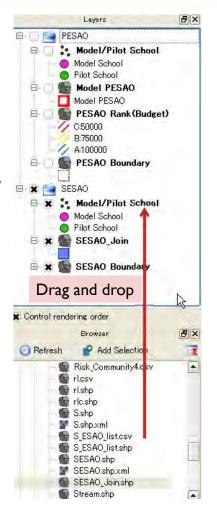


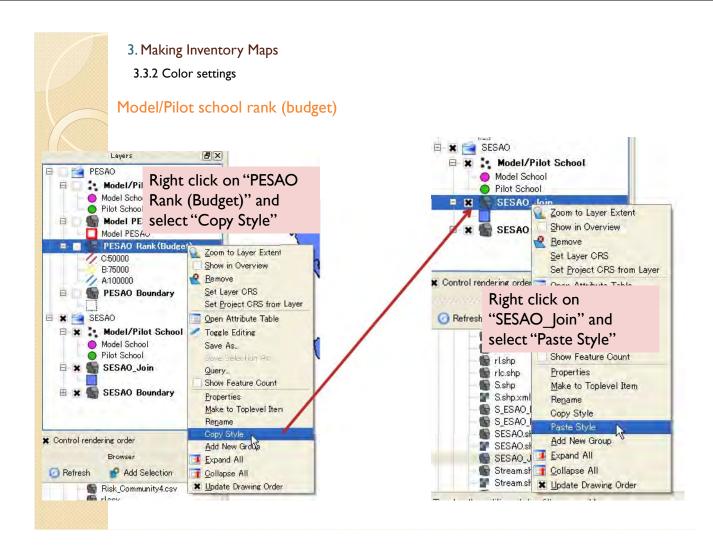
3.3.2 Color settings

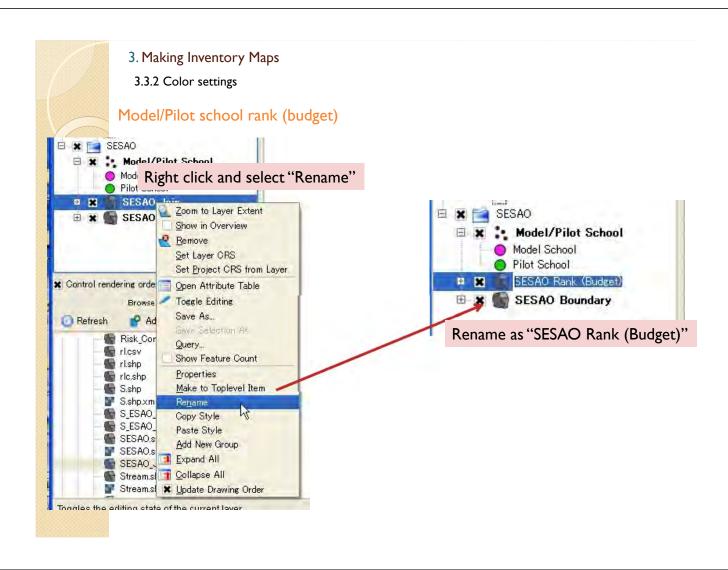
Model/Pilot school rank (budget)

Drag and drop "SESAO_Join.shp" into "Layers field again.

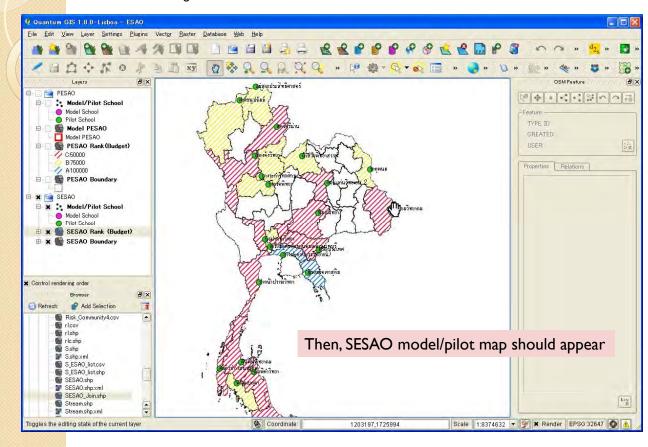
After these file is imported, please move these features to under "SESAO" group.

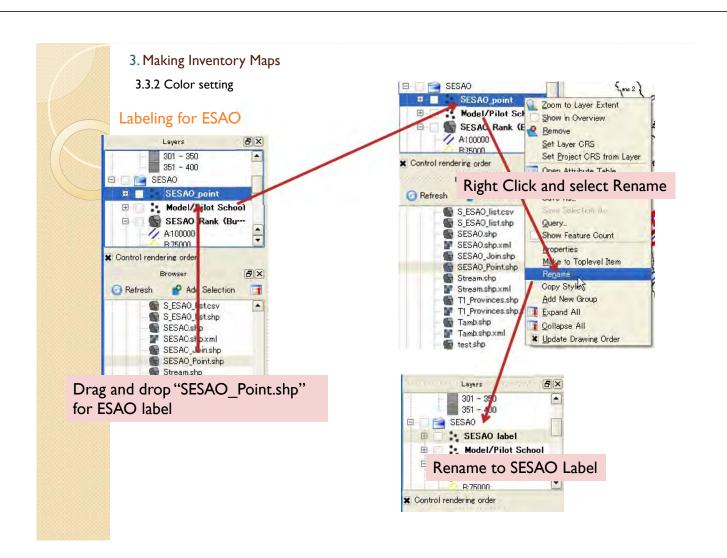


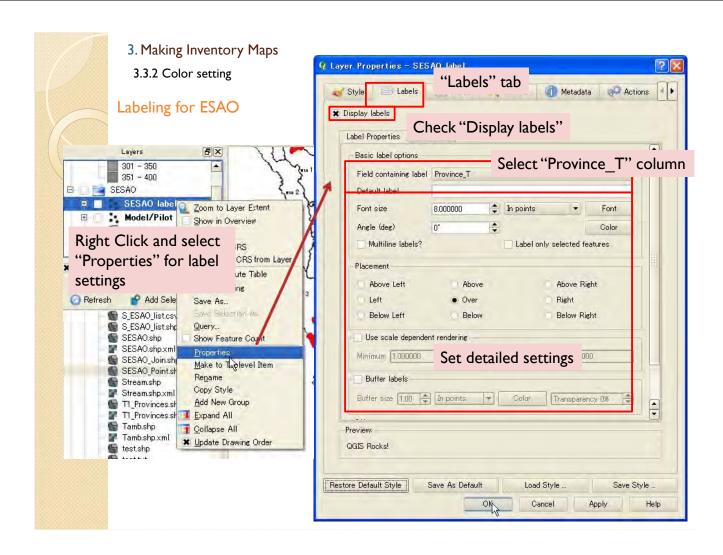




3.3.2 Color settings



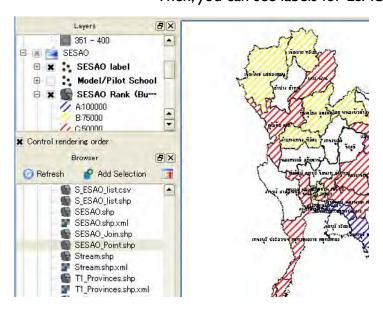




- 3. Making Inventory Maps
- 3.3.2 Color setting

Labeling for ESAO

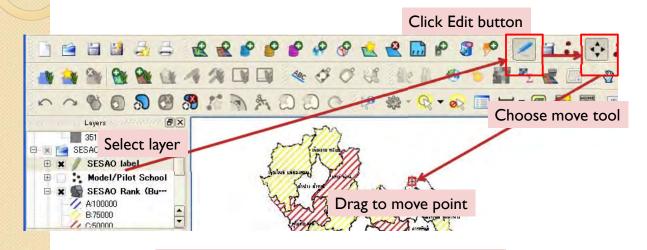
Then, you can see labels for ESAO.



- 3. Making Inventory Maps
- 3.2.2 Color setting

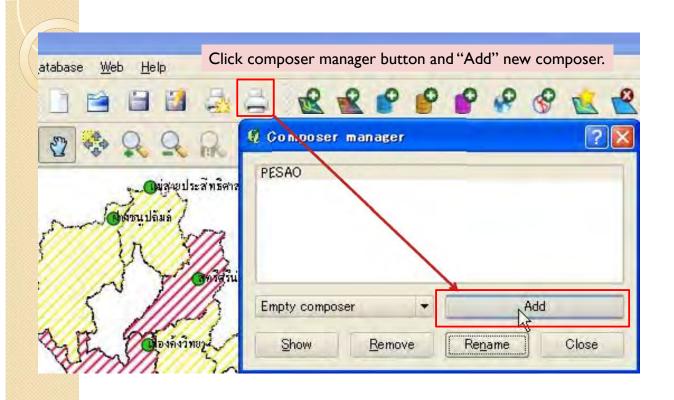
Labeling for ESAO

If there are some overlaps of the labels, you can move the points.



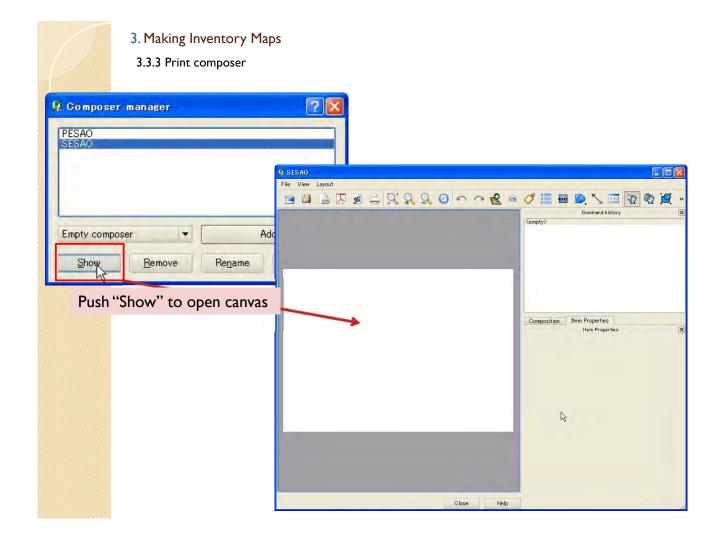
After you finish edit, re-click Edit button and save.

- 3. Making Inventory Maps
- 3.3.3 Print composer



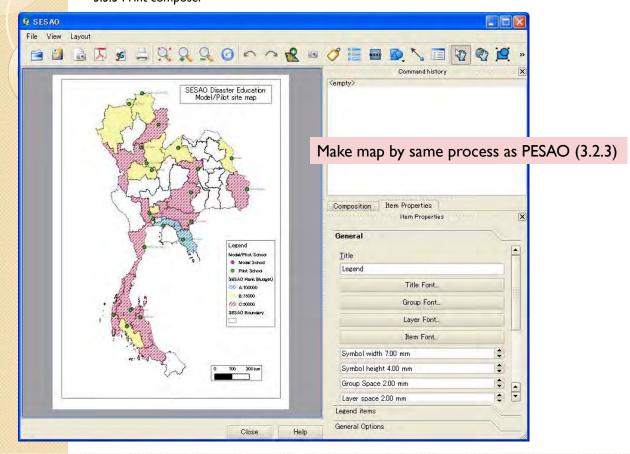


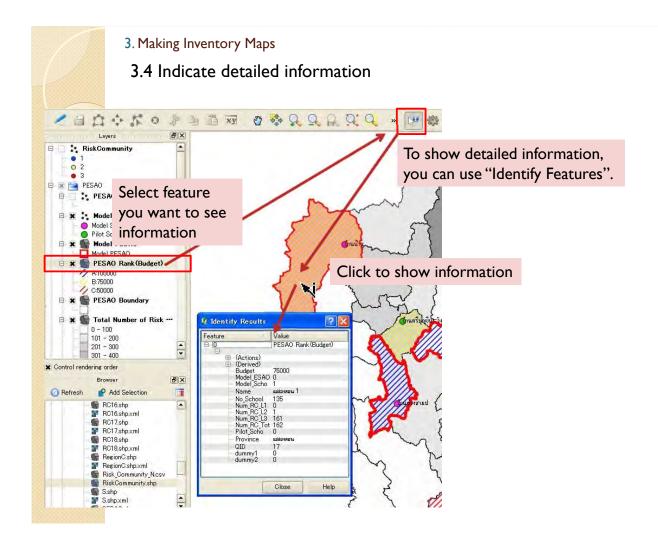




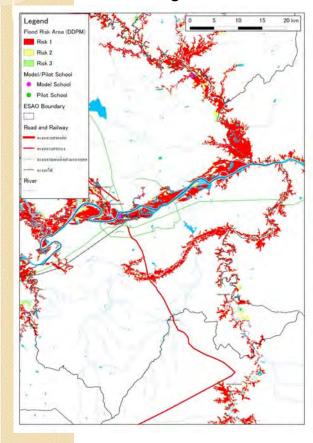


3.3.3 Print composer





3.5 Making risk area with ESAO map



Risk area information shown with ESAO and pilot/model school location is helpful to understand relation between risk area and school or residence location.

In addition, this type of map will be able to be used to select pilot/model schools and to make action plans.

3. Making Inventory Maps

3.5.1 Total numbers of Risk community in ESAO

The ESAO file (PESAO_Join.shp or SESAO_Join.shp) contain data of total risk community numbers in each ESAO.

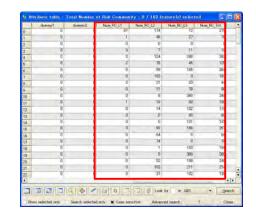
Explanation for the columns of attribution table of PESAO_Join.shp or SESAO_Join.shp.

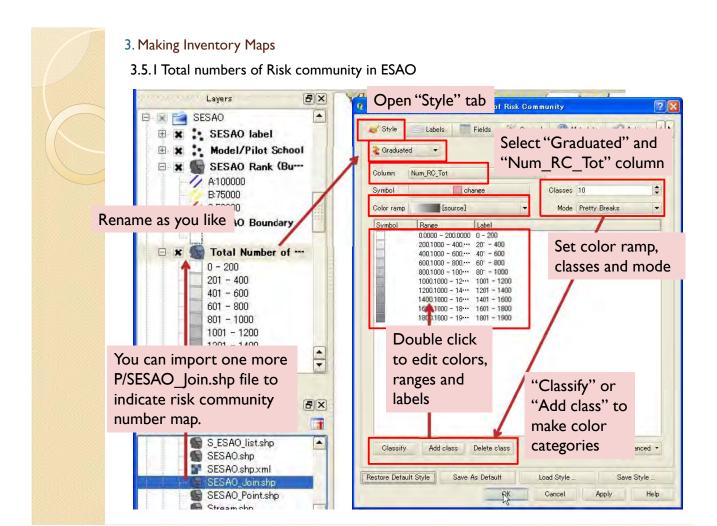
"No_RIVII" : numbers of risk level I communities "No_R2VIII" : numbers of risk level 2 communities

"No_R3Vill" : numbers of risk level 3 communities (highest)
"No_TotRVill" : total (level 1-3) numbers of risk communities

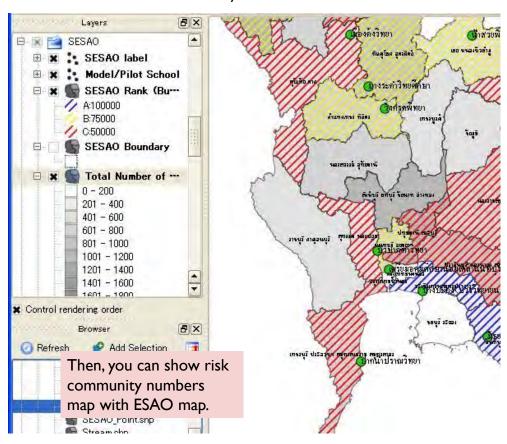
This total numbers of risk communities can be shown with ESAO map you made above.

You can compare the risk community and model/pilot ESAO.

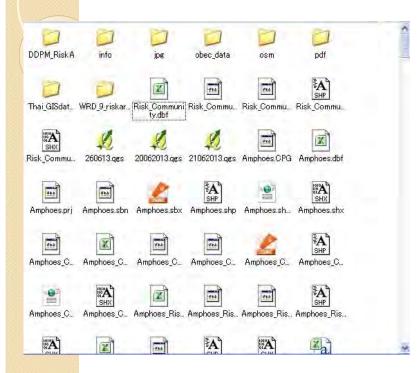




3.5.1 Total numbers of Risk community in ESAO



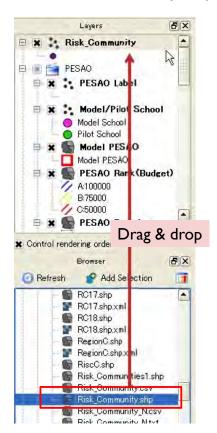
3.5.2 Other Risk area information



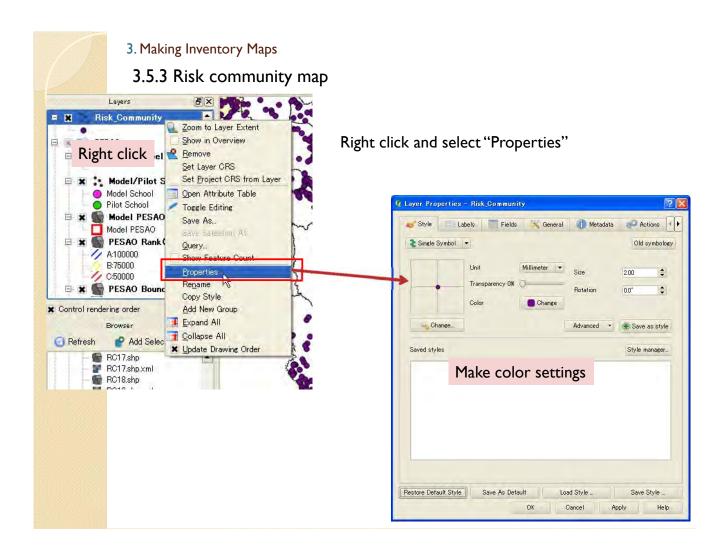
- Risk community
 "Risk_Community" shapefile
 (data from DDPM)
- Flood risk area "DDPM_RiskA" folder (data from DDPM)
- Sediment disaster risk area "WRD_9_riskarea" folder (data from WRD)

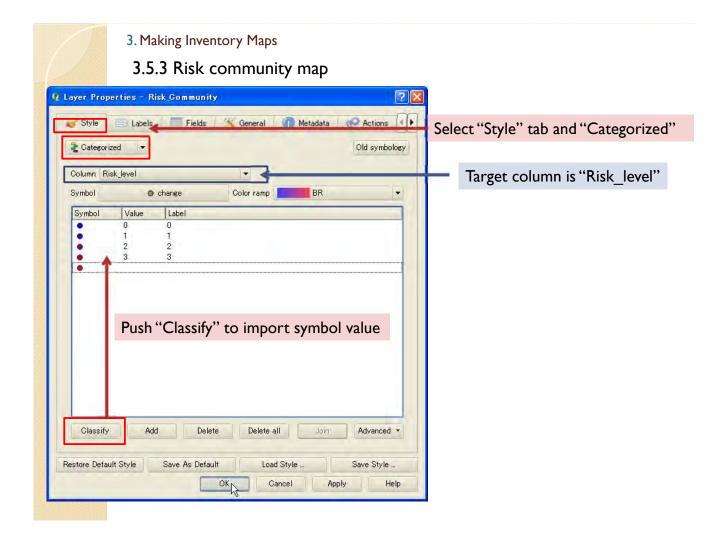
3. Making Inventory Maps

3.5.3 Risk community map



Import "Risk_Community" shape file from browser field.







Add

Classify

Restore Default Style

Delete

OK

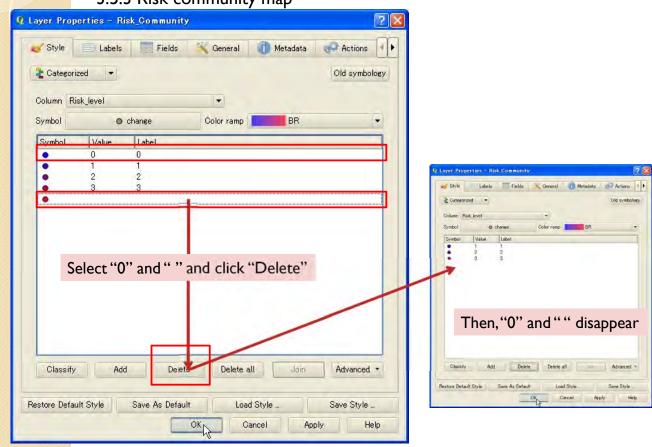
Save As Default

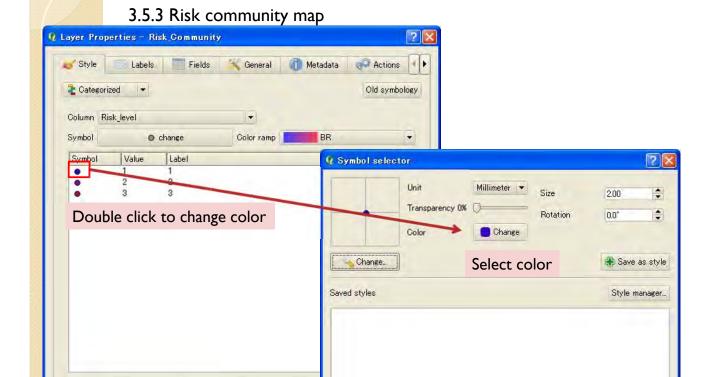
Delete all

Load Style ..

Cancel

3.5.3 Risk community map



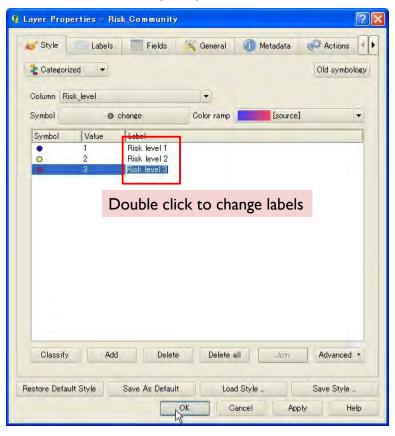


OK

Cancel



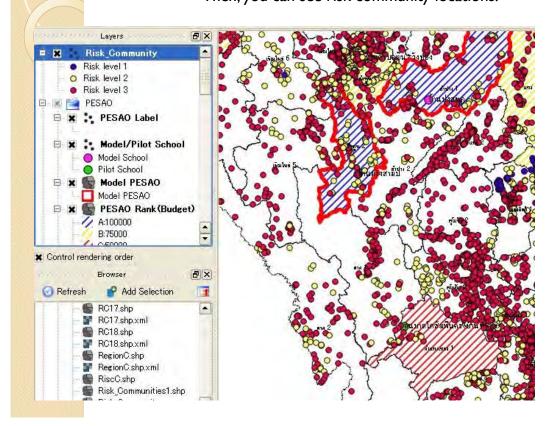
3.5.3 Risk community map

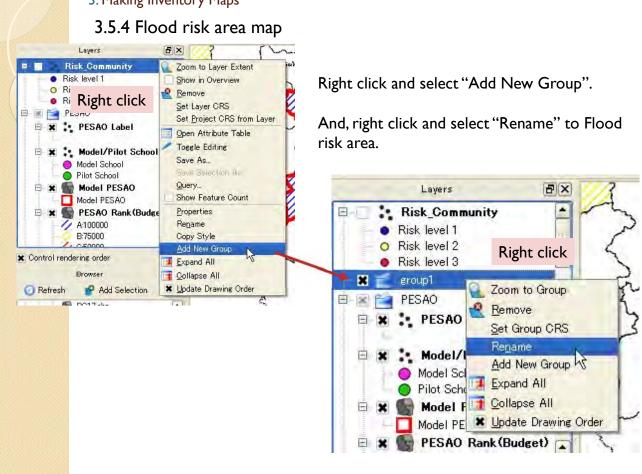


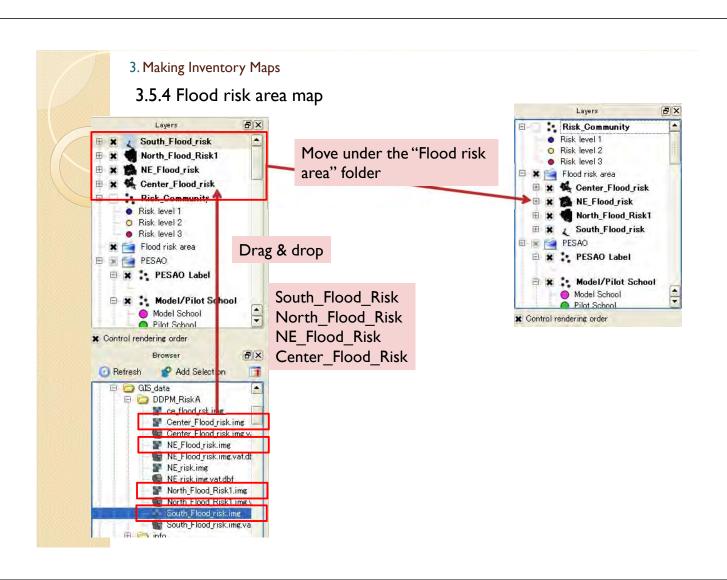


3.5.3 Risk community map

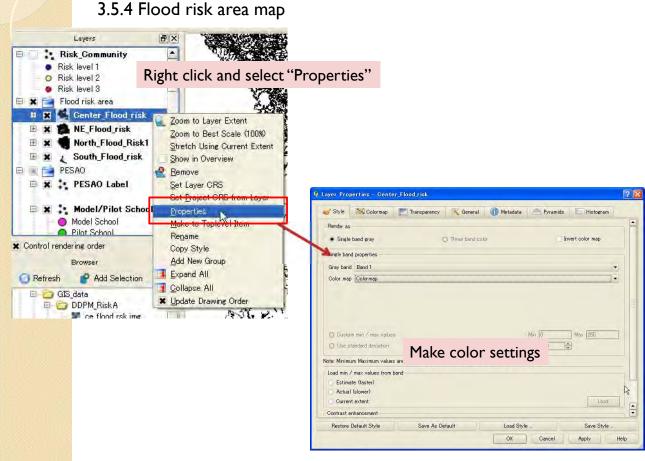
Then, you can see risk community locations.



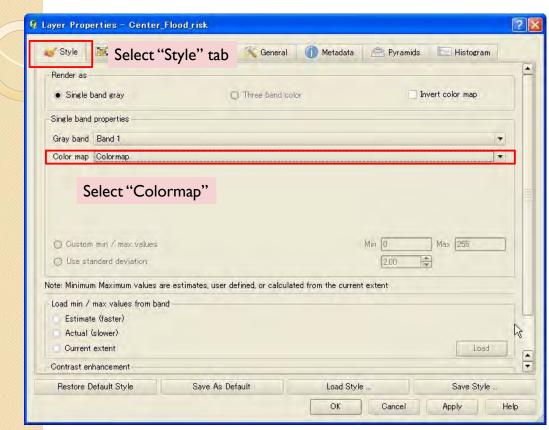




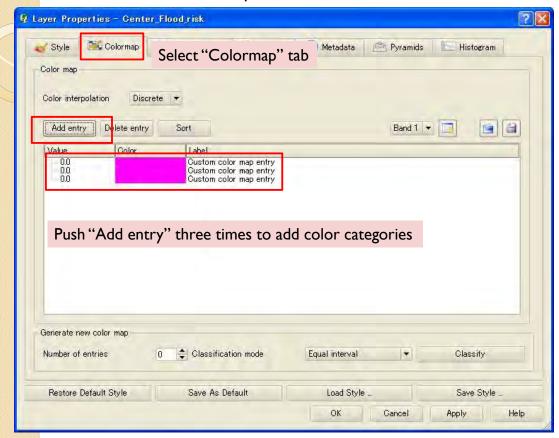




3.5.4 Flood risk area map

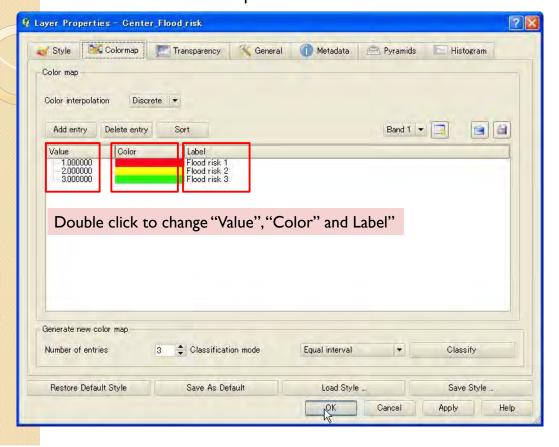


3.5.4 Flood risk area map

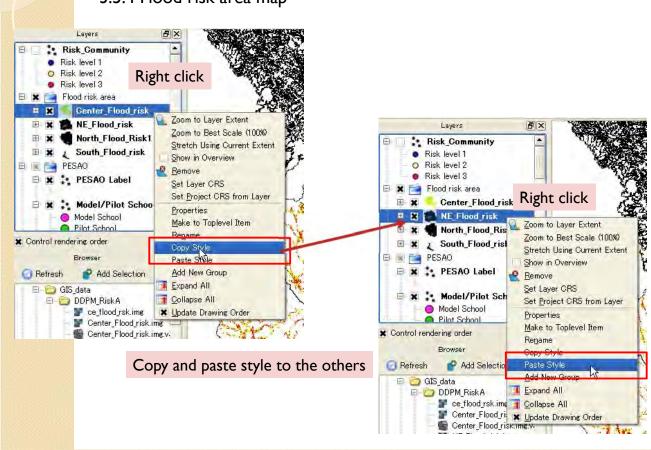


3. Making Inventory Maps

3.5.4 Flood risk area map

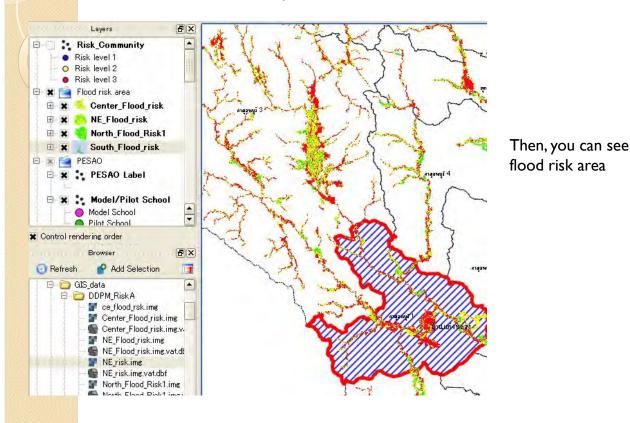


3.5.4 Flood risk area map



3. Making Inventory Maps

3.5.4 Flood risk area map





Center_F ood_risk

Drag & drop

Risk level 1
Risk level 2
Risk level 3
Flood risk are

■ X NE_Flood_risk
 ■ X North_Flood_Risk1
 ■ X South_Flood_risk
 ■ Province level_data of Risk ···

Add

⊕ ☐ osm

⊕ ☐ pdf

☐ Thai_GISda a_WRD

☐ WRD 9_riskarea

☐ Drouth_rk.shp
☐ Drouth_rk.shp
☐ Drouth_rk.shp
☐ flood_rk.shp
☐ flood_rk.shp
☐ flood_rk.shp
☐ flood_rk.shp

Sloss_rk.shp.xml
Sum_Output.dbf
Sum_Output_2.dbf
Amphoes.shp

*

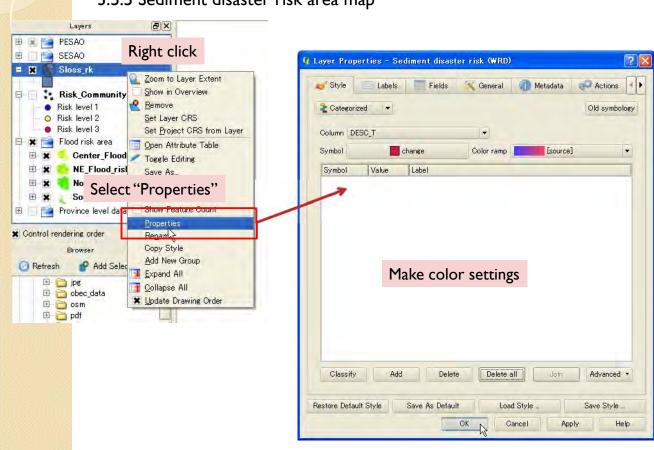
Refresh

Control rendering order

⊞ ☐ jpg
⊞ ☐ obec_data
⊞ ☐ osm

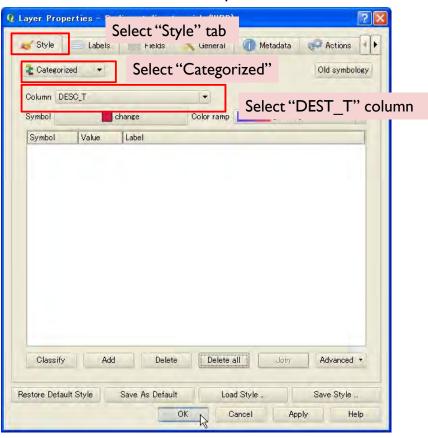
At first, import "Sloss rk.shp"



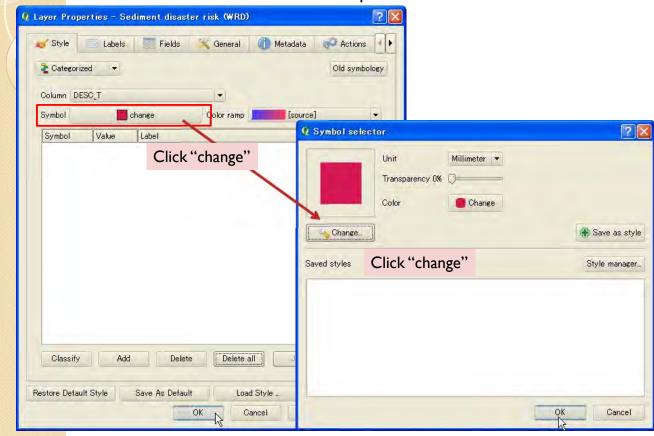




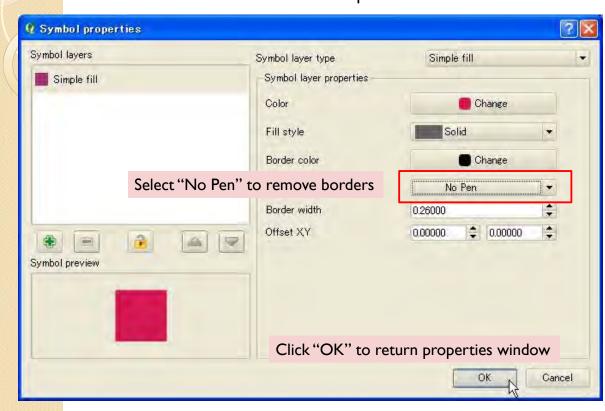
3.5.5 Sediment disaster risk area map



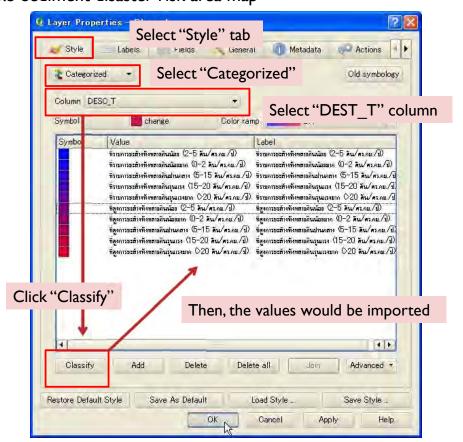
3. Making Inventory Maps



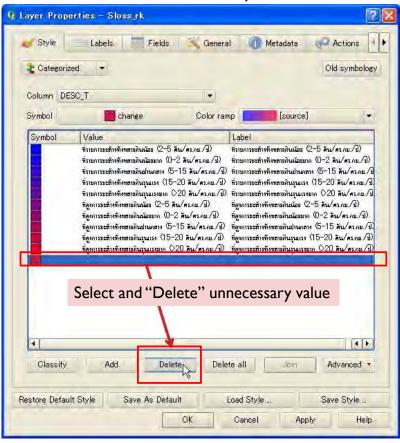
3.5.5 Sediment disaster risk area map



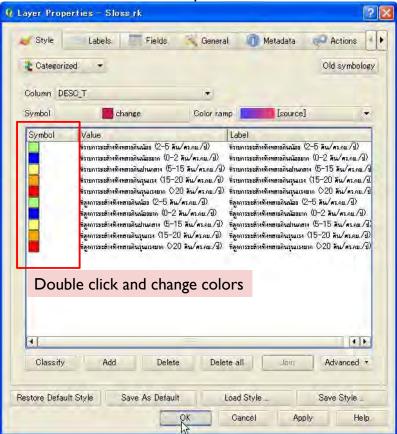
3. Making Inventory Maps



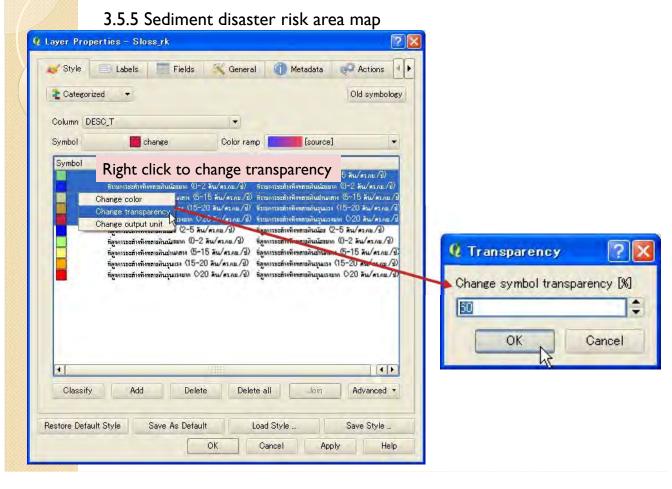
3.5.5 Sediment disaster risk area map

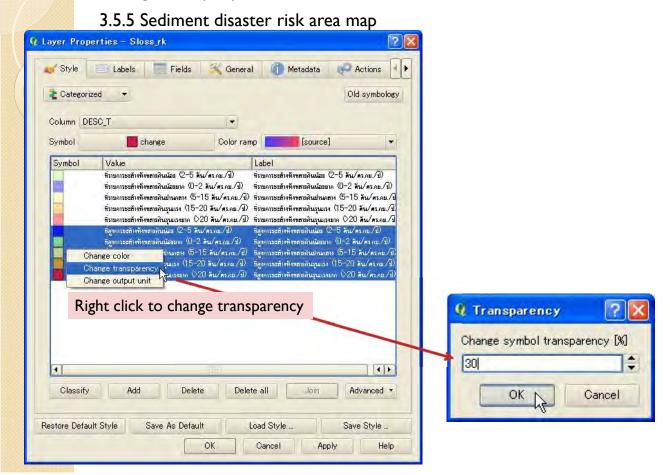


3. Making Inventory Maps

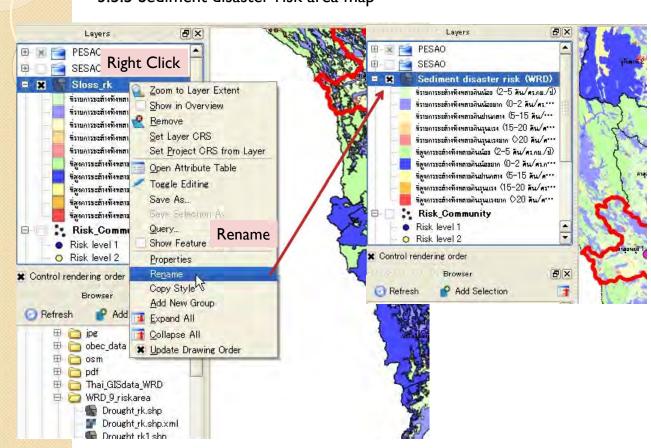








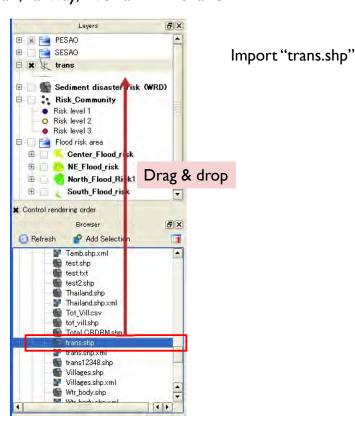
3.5.5 Sediment disaster risk area map



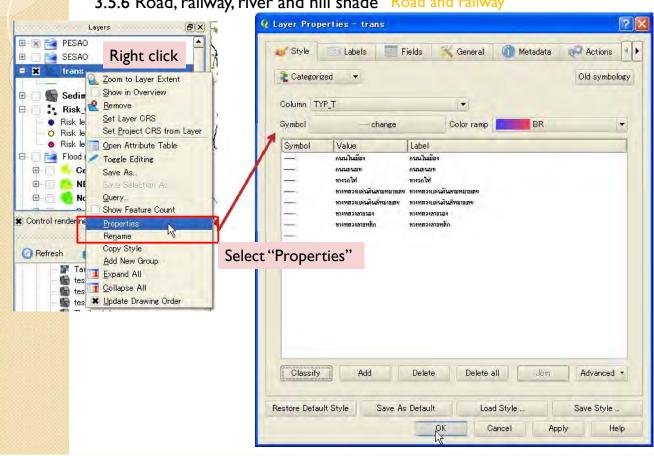
3. Making Inventory Maps

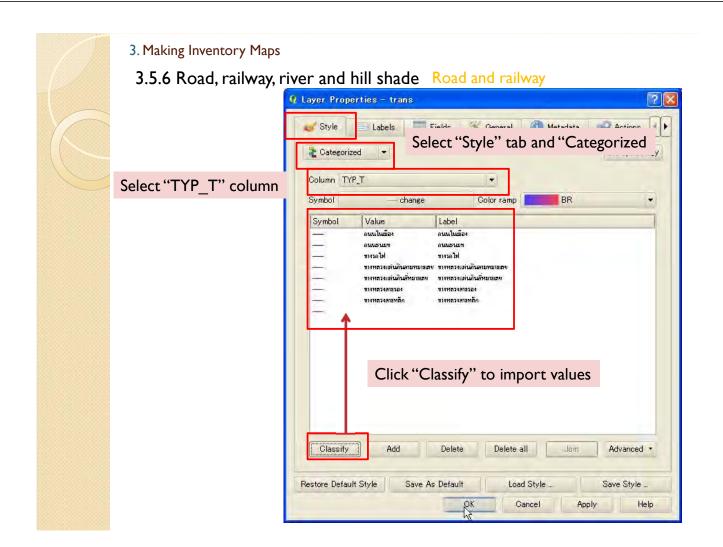
3.5.6 Road, railway, river and hill shade

Road and railway



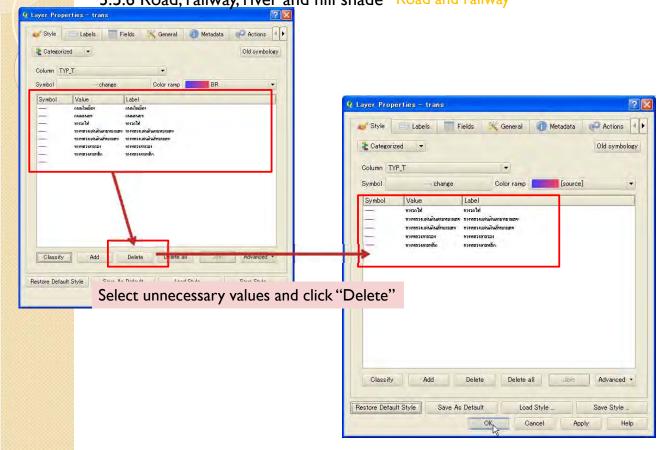
3.5.6 Road, railway, river and hill shade Road and railway





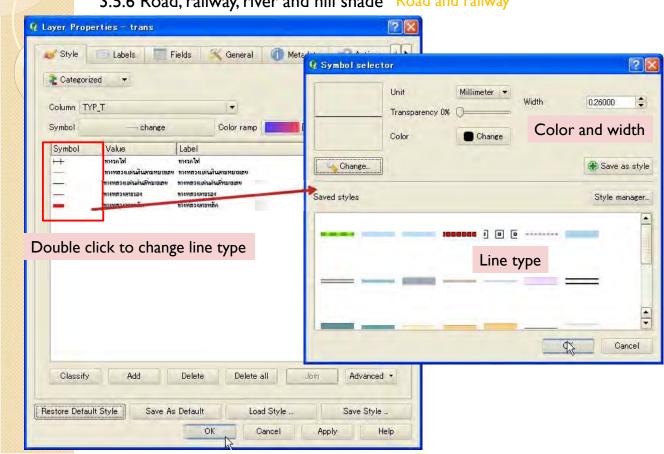


3.5.6 Road, railway, river and hill shade Road and railway

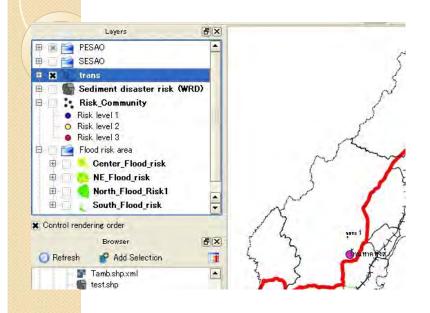


3. Making Inventory Maps

3.5.6 Road, railway, river and hill shade Road and railway



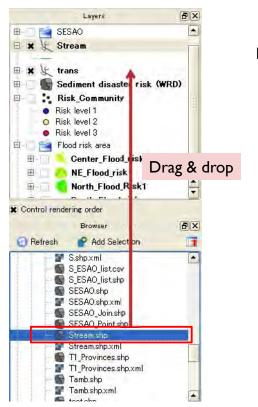
3.5.6 Road, railway, river and hill shade Road and railway



Then, you can see transportation map

3. Making Inventory Maps

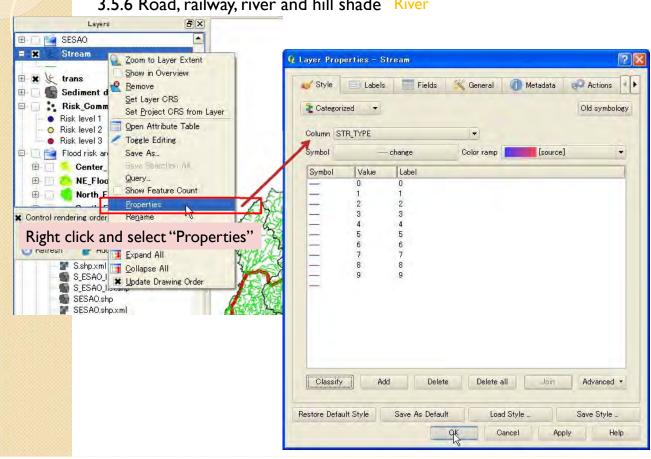
3.5.6 Road, railway, river and hill shade River

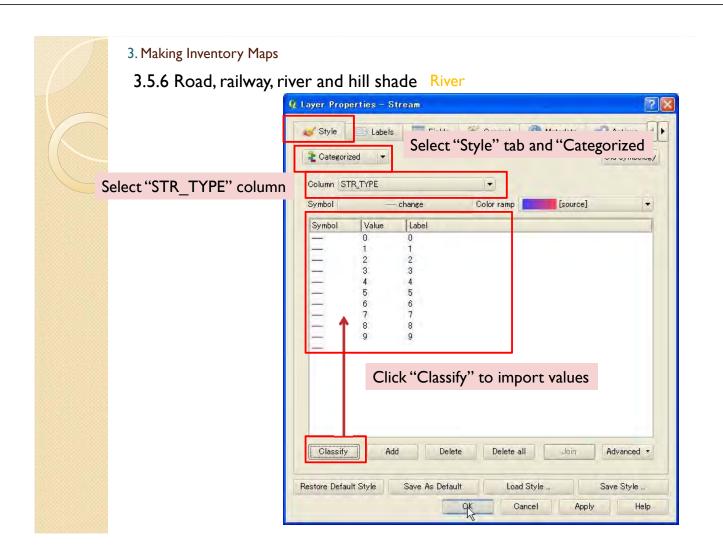


Import "Stream.shp"



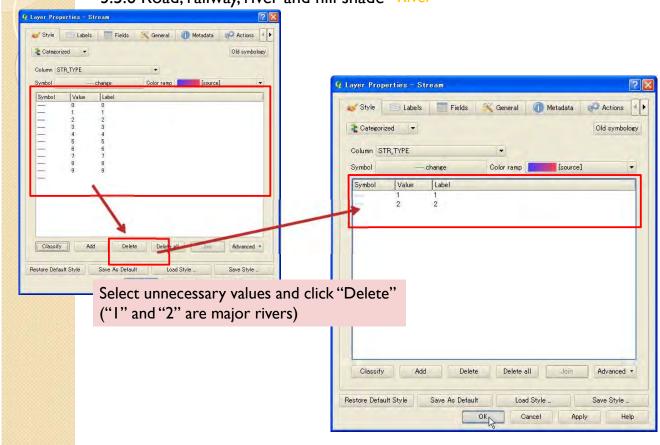
3.5.6 Road, railway, river and hill shade River





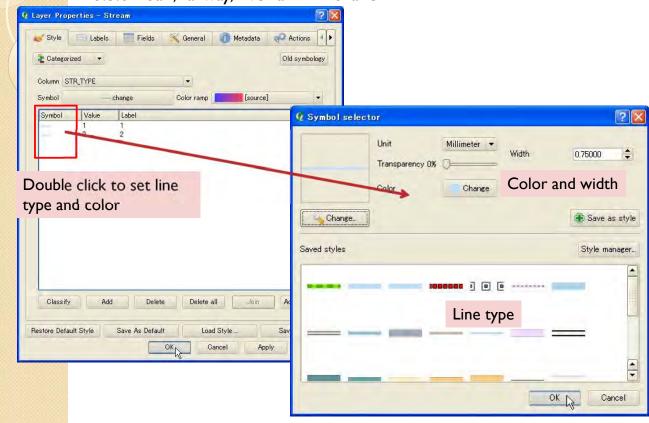


3.5.6 Road, railway, river and hill shade River

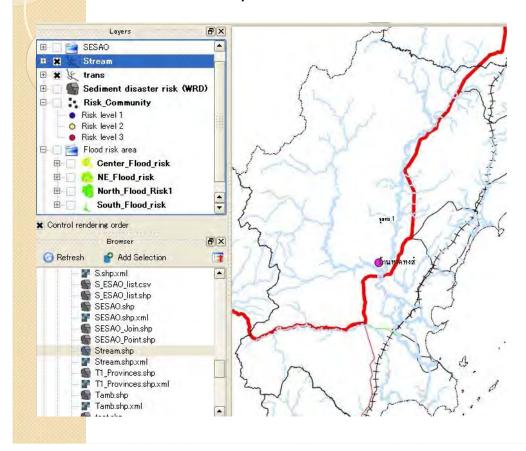




3.5.6 Road, railway, river and hill shade River



3.5.6 Road, railway, river and hill shade River



Then, river map is displayed.

3. Making Inventory Maps

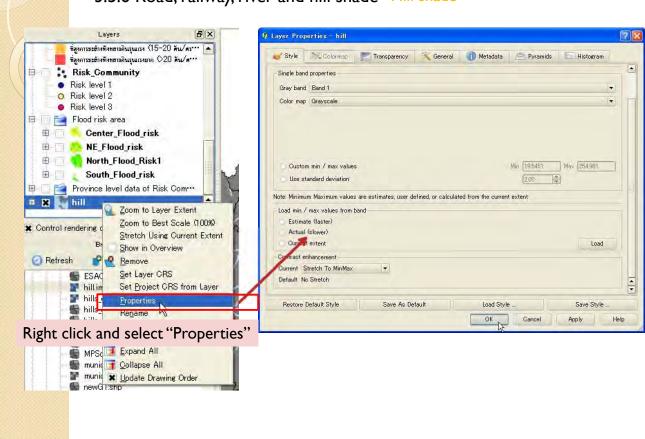
3.5.6 Road, railway, river and hill shade Hill shade



Import "hill.img"

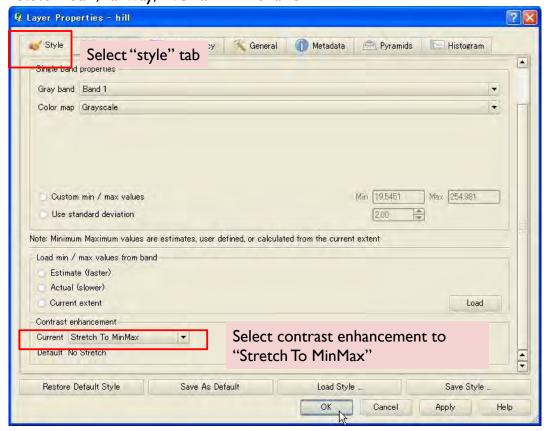


3.5.6 Road, railway, river and hill shade Hill shade

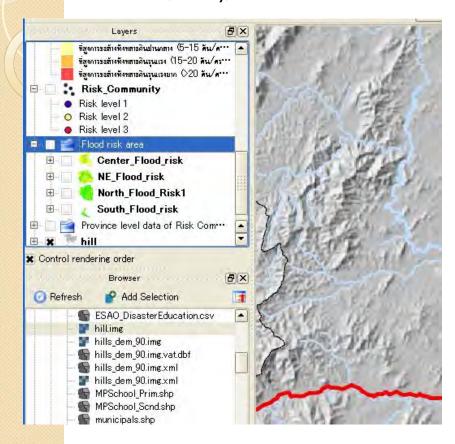


3. Making Inventory Maps

3.5.6 Road, railway, river and hill shade Hill shade



3.5.6 Road, railway, river and hill shade Hill shade



Then, you can display hill shade.

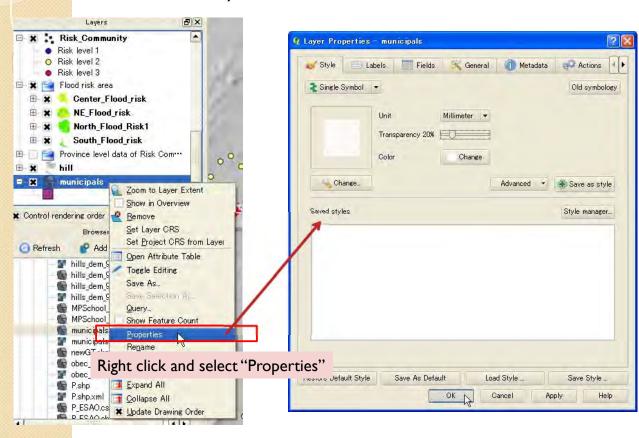
3. Making Inventory Maps

3.5.6 Road, railway, river and hill shade City labels

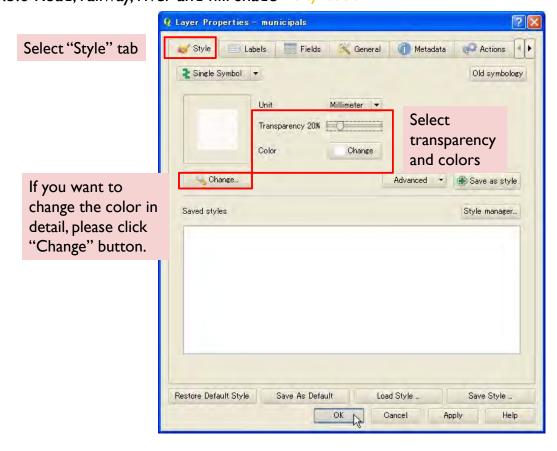


Import "municipals.shp"

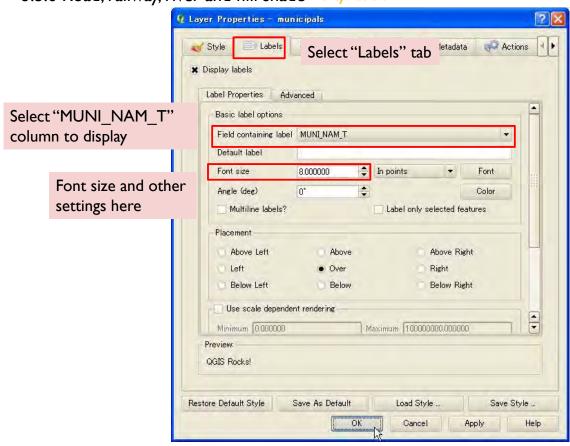
3.5.6 Road, railway, river and hill shade City labels



- 3. Making Inventory Maps
- 3.5.6 Road, railway, river and hill shade City labels



3.5.6 Road, railway, river and hill shade City labels



- 3. Making Inventory Maps
- 3.5.6 Road, railway, river and hill shade City labels

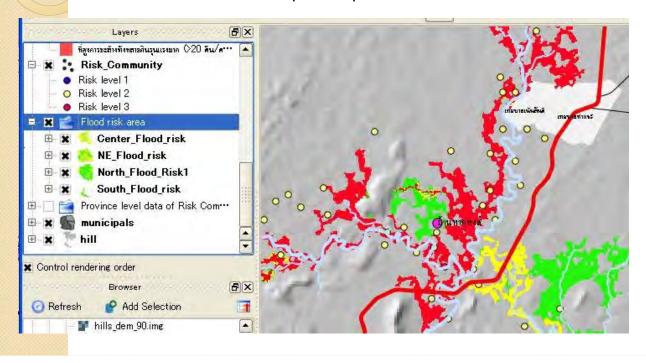
Then you can see cities.



3.5.7 Change order and display

You can change display order and layers.

The following example shows risk communities and flood risk area with pilot school. Such information is useful to understand risk area distribution and to make decision about disaster education action plan and pilot/model site.

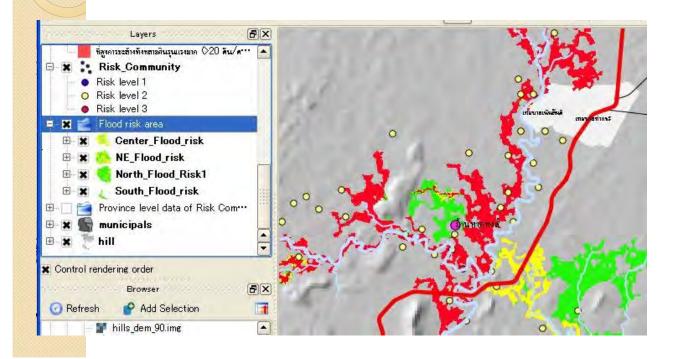


3. Making Inventory Maps

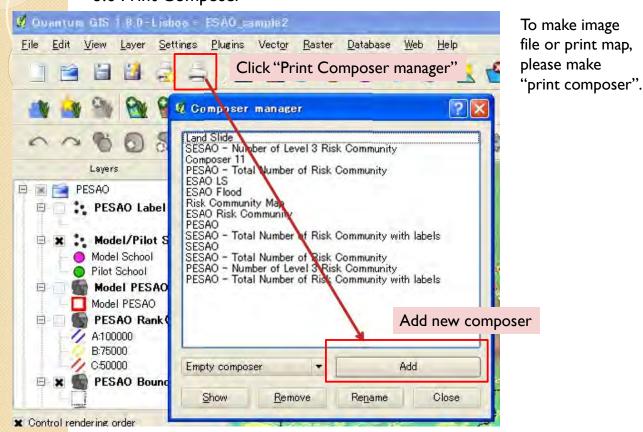
3.5.7 Change order and display

Note: These information is one of indicators for disaster risk. Out of the indicated risk area do not mean actual no risk area.

The data of risk community still contains any wrong and missing locations.

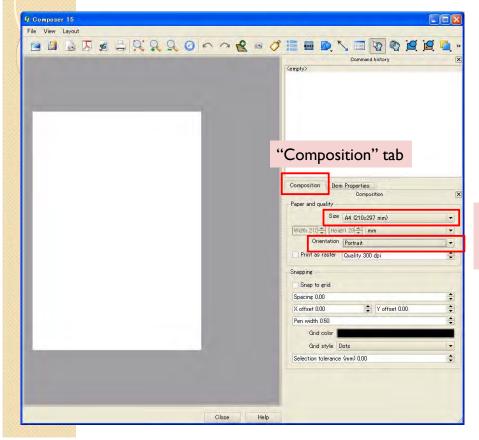


3.6 Print Composer

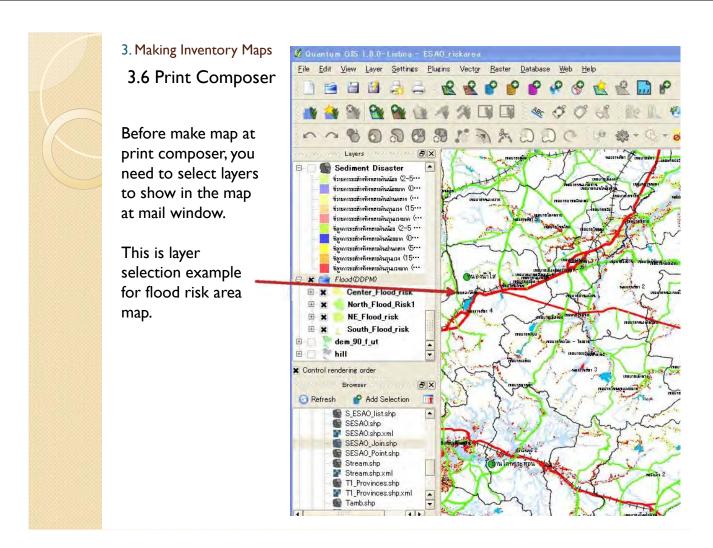


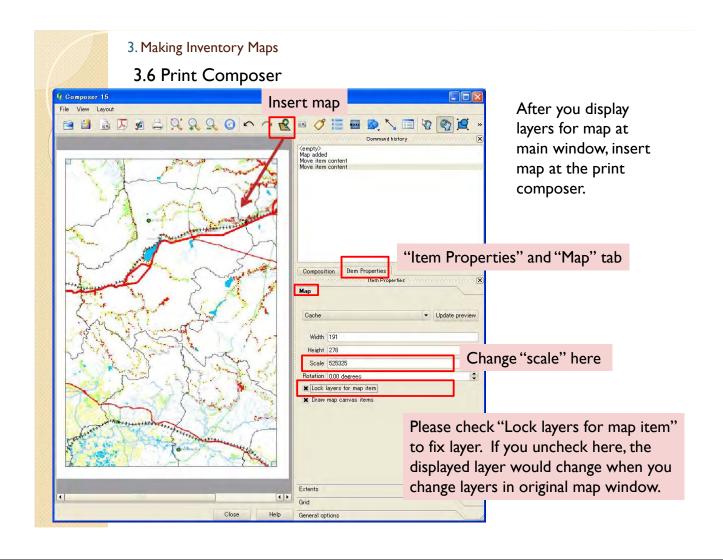
3. Making Inventory Maps

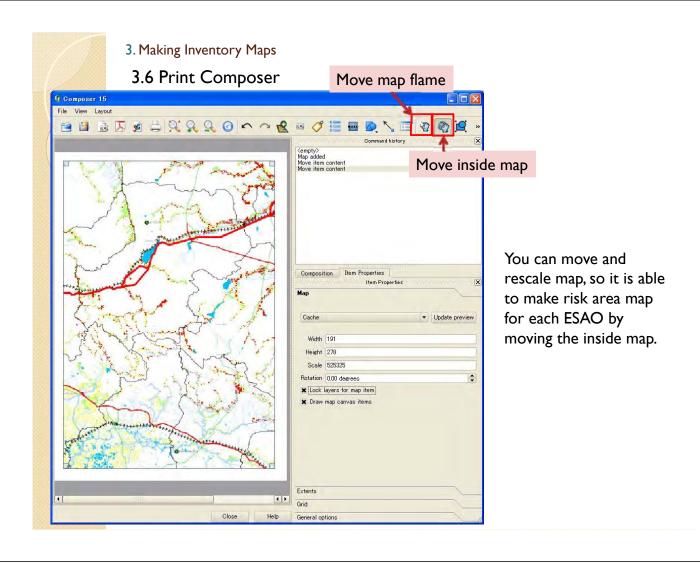
3.6 Print Composer

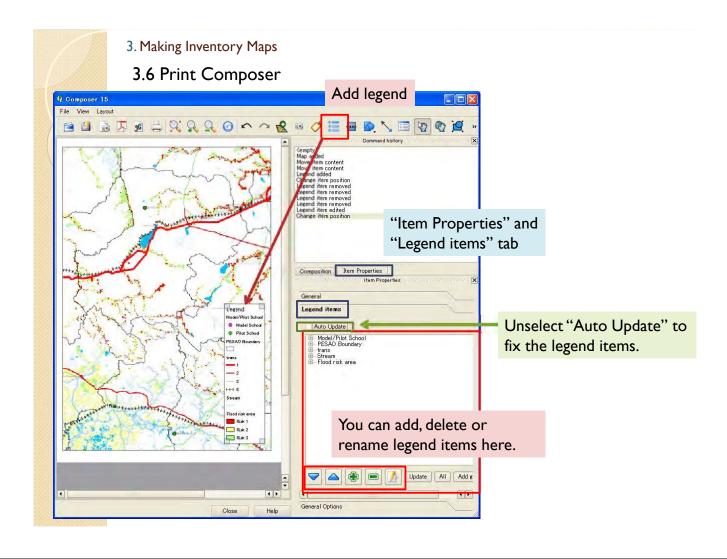


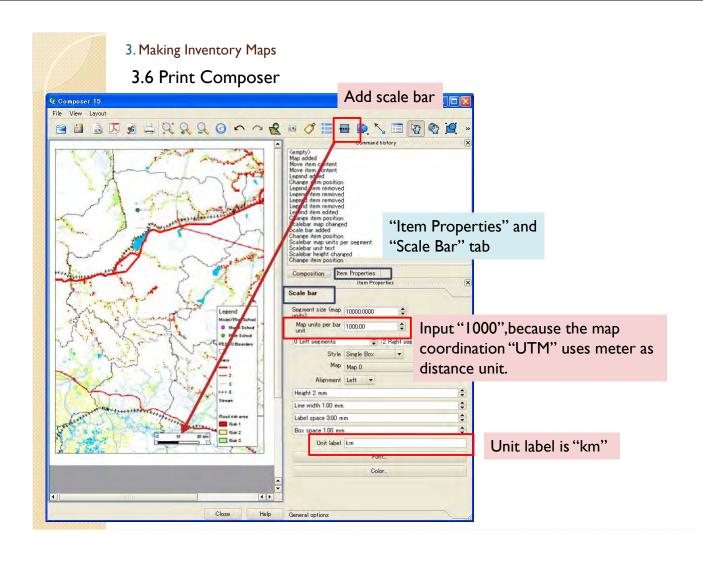
You can select size, orientation and other settings here.

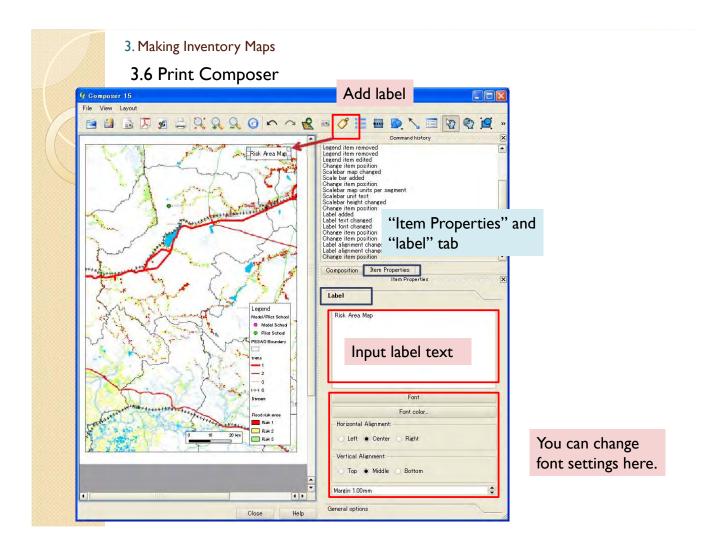








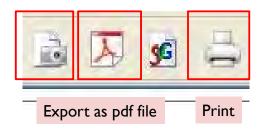






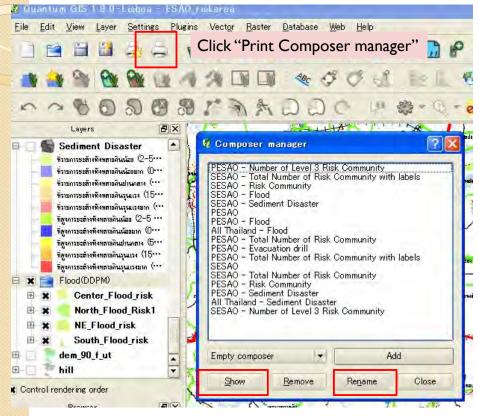
3.6 Print Composer

Export as image file



3. Making Inventory Maps

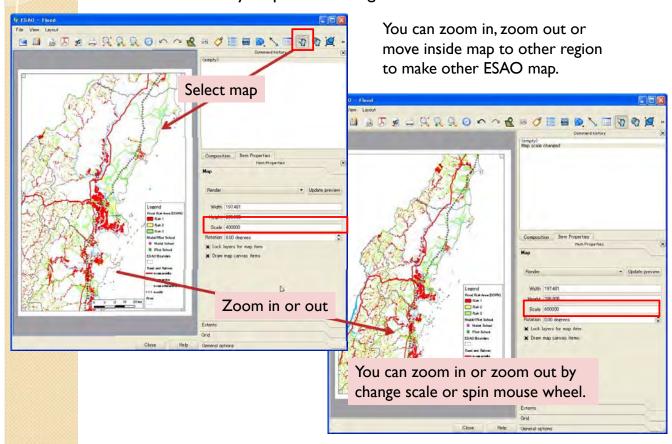
3.6 Print Composer



After you have made composer once, you can recall the composer by "show" button and rename.

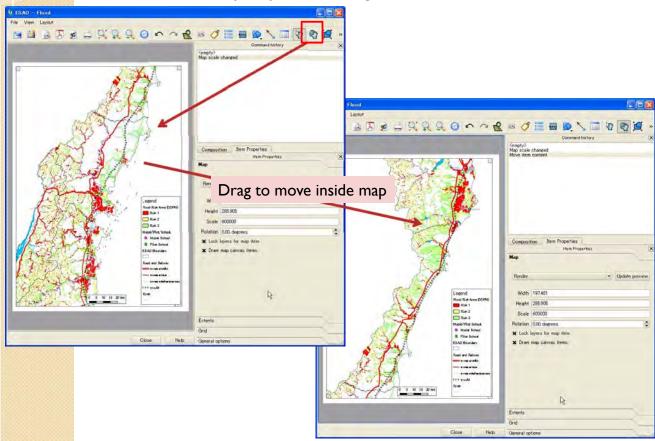


3.7 Make inventory map in other region





3.7 Make inventory map in other region





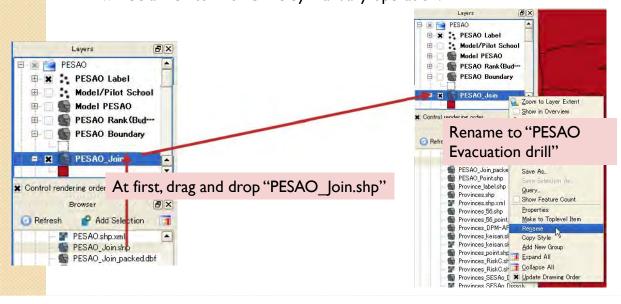
3.8 Add new data (evacuation drill, etc...)

It is able to add new information to the ESAO shape file.

There are some method to add data.

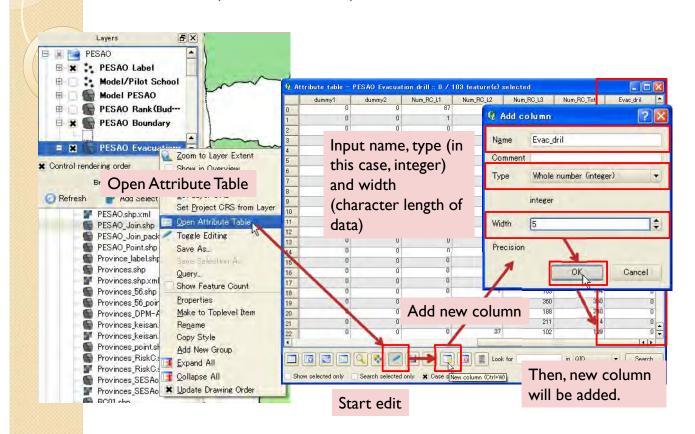
One is make new excel file and import to GIS, please refer to 3.1.2.

In this section, numbers of schools in which ESAOs plan to conduct evacuation drill will be added to PESAO file by manually operation.

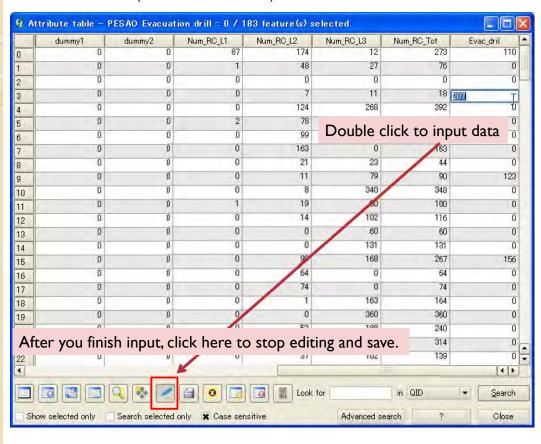


3. Making Inventory Maps

3.8 Add new data (evacuation drill, etc...)

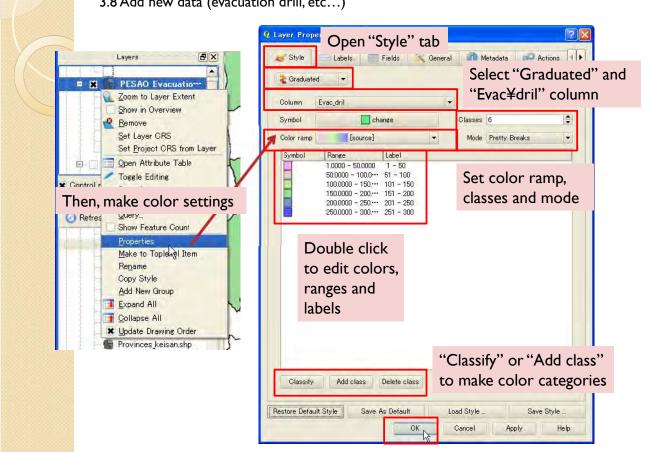


- 3. Making Inventory Maps
- 3.8 Add new data (evacuation drill, etc...)





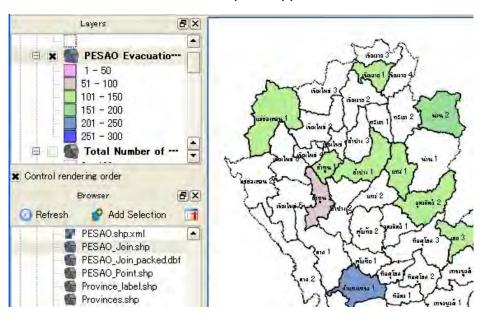
3.8 Add new data (evacuation drill, etc...)





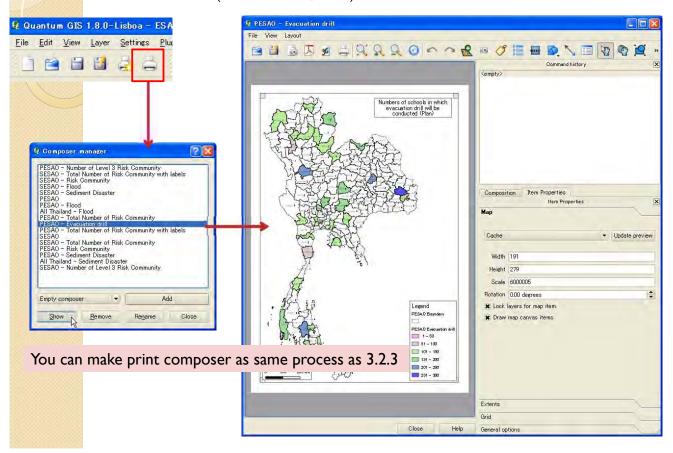
3.8 Add new data (evacuation drill, etc...)

Then, the new map will apper.



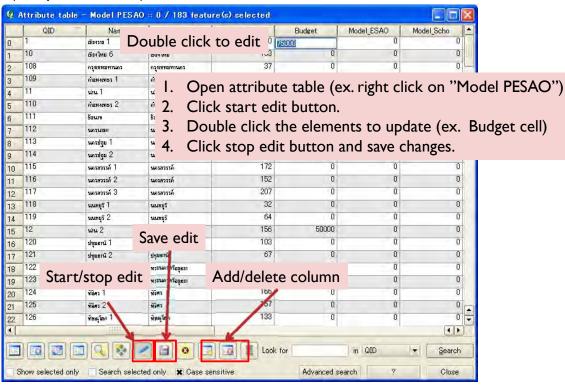
3. Making Inventory Maps

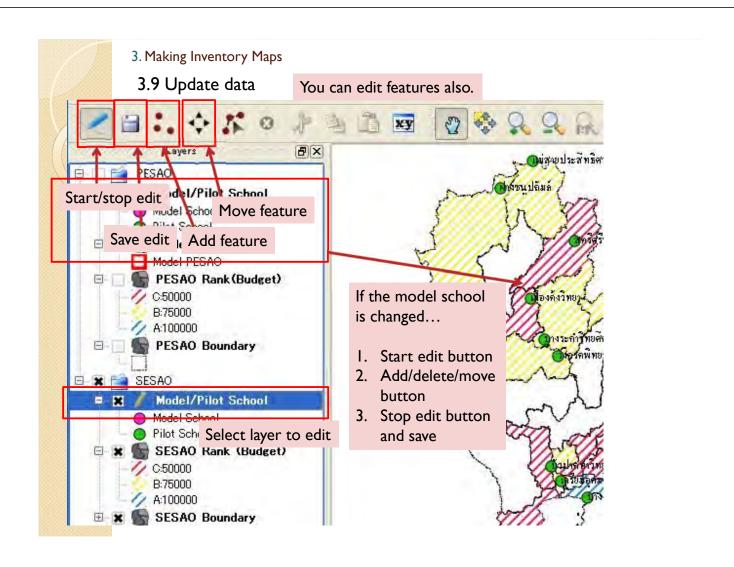
3.8 Add new data (evacuation drill, etc...)

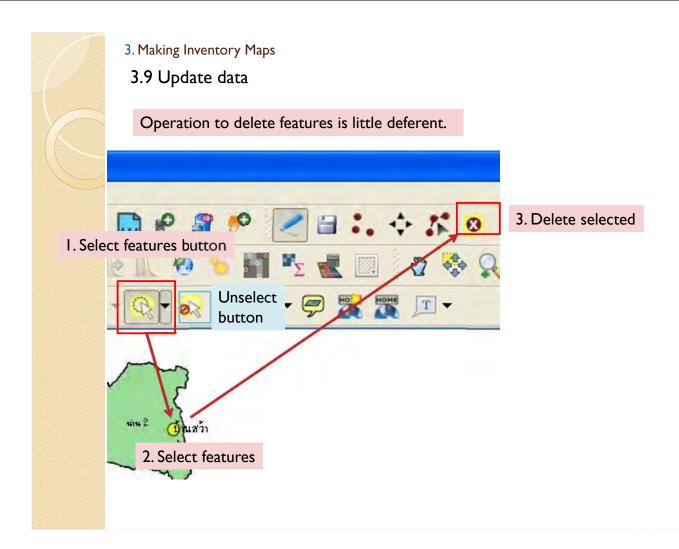


3.9 Update data

If you want to change/update attribute table, you can edit by following function. (Partly same to 3.7.)

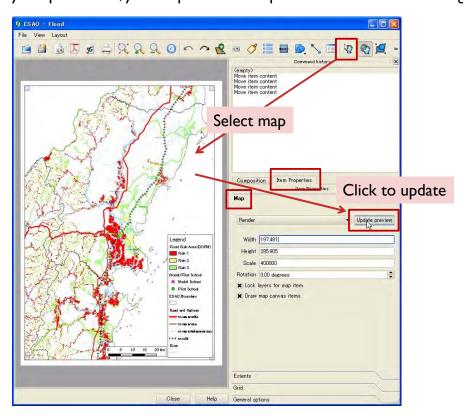






3.9 Update data

After you update data, you reopen or click update button to reflect changes.



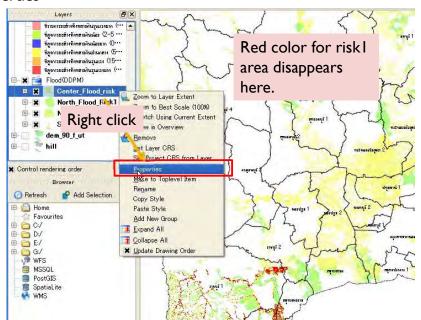
3.10 Notes

- Name of model/pilot schools at SESAO 3, 17, 38, 41 and PESAO Ubon Ratchathani 4 are uncertain. Please confirm.
- Locations of the model/pilot schools are also uncertain. (look up by google)
- CBDRM data is now under updating.
- Risk community data contains some error.
- Risk area information is one of indicators for disaster risk. Out of the indicated risk area do not mean actual no risk area.
- If it is possible, it is better to integrate information of disaster education into the all school list and shape file you are making.

3. Making Inventory Maps

3.11 Bugs for flood risk area map

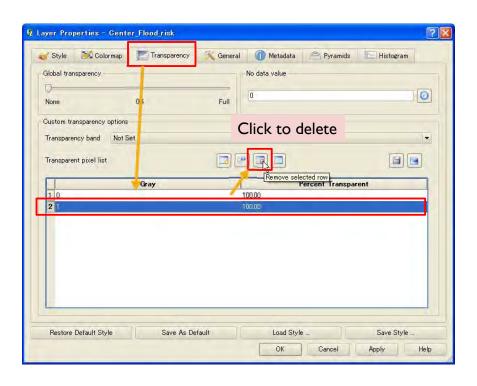
When you open flood risk area file, the color of risk1 in "Flood (DDPM)" should disappear because of program problem. So, please fix the settings as follows. Please right click on the layer in which the color of risk1 disappears and select "Properties"





3.11 Bugs for flood risk area map

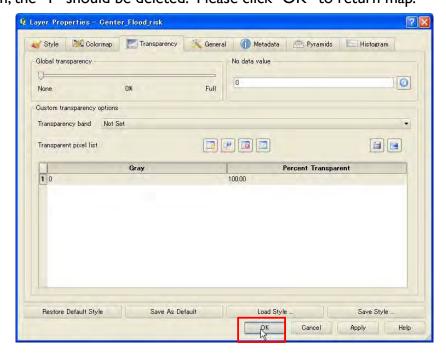
Select "Transparency" tab and remove "I" in the below field.



3. Making Inventory Maps

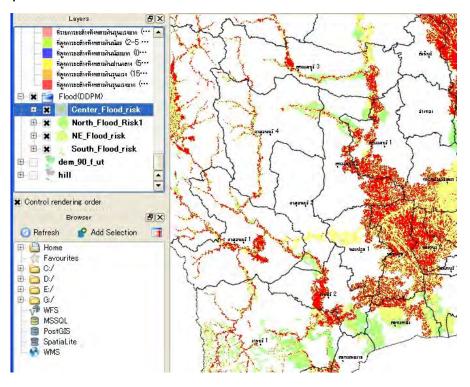
3.11 Bugs for flood risk area map

Then, the "I" should be deleted. Please click "OK" to return map.



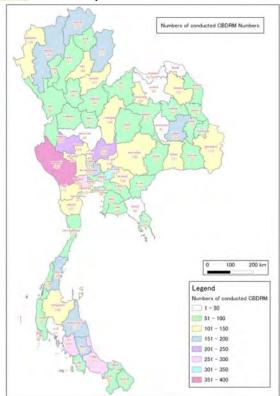
3.11 Bugs for flood risk area map

The color for risk I should be redrawn. Please do these operation each time you open the file.



4. Making Inventory Maps (CBDRM)

4.1 Import CBDRM data



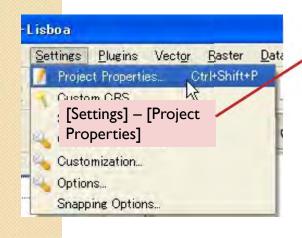
In this chapter, we make CBDRM Map by using QGIS and Excel.

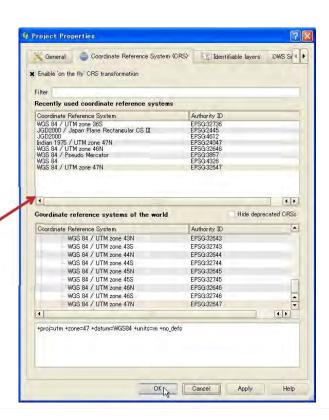
I.Import shape file (geographical data) and Excel file (CBDRM information)2.Integrate the Excel file to shape file3.Make coloring and print composer

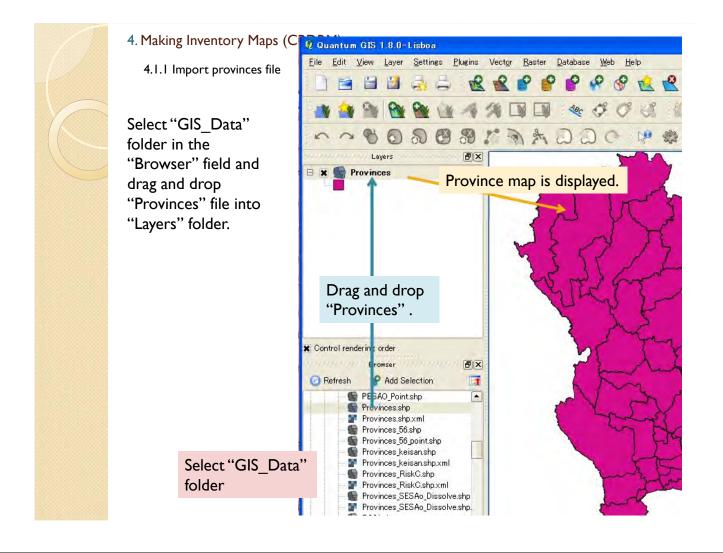


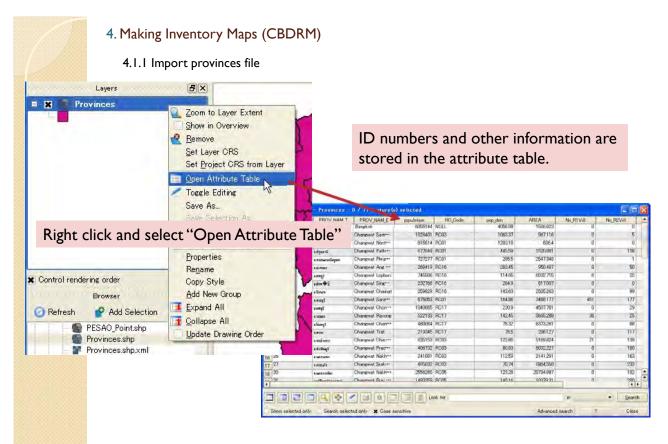
4.1.1 Import provinces file

At first, make sure that Coordination Reference System (CRS) is set as WGS84 / UTM 47N and "Enable on the fly CRS transformation" is checked.





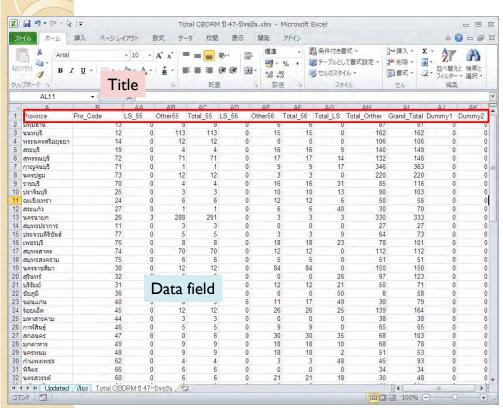




We are going to import the CBDRM data into this attribute table. In order to do that, it is necessary to import CBDRM data from Excel file.



4.1.2 Import CBDRM data from Excxel file



Open "Total CBDRM ปี 47-ปัจจุบัน.xlsx".

Table to import into GIS must be simple table like this figure.

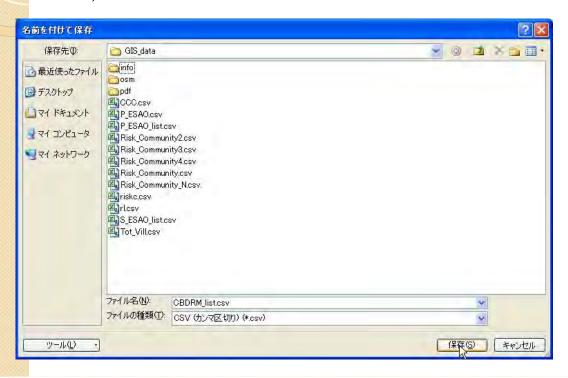
The first row is title of the attribute column. Write only alphabet and "_". Do not use ""(space),"-", "," ...

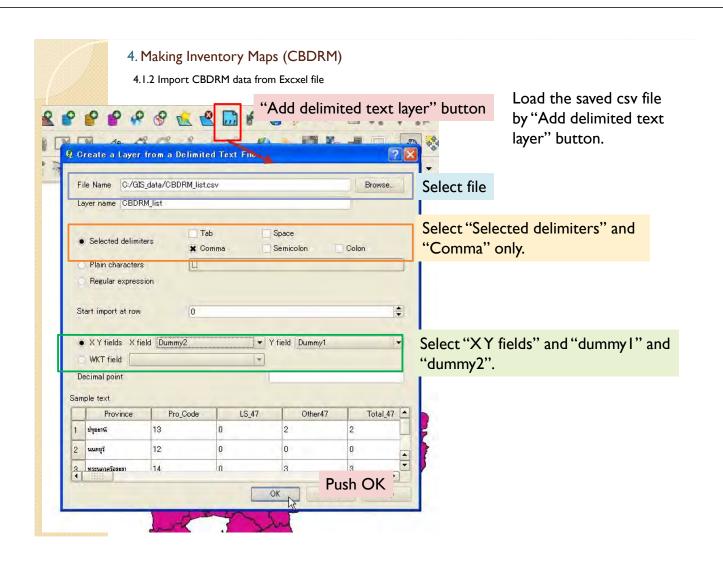
Data field is below. Do not use ",".

The last two columns are dummy column filled by "0".

4.1.2 Import CBDRM data from Excxel file

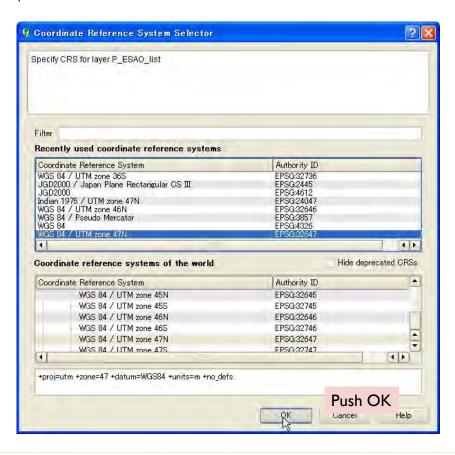
Save the data sheet as "CBDRM_list.csv". Please use file format as "CSV (comma delimited)". In this format file, comma "," is used as separator. So please don't use comma "," in the data field and title row in the data sheets.





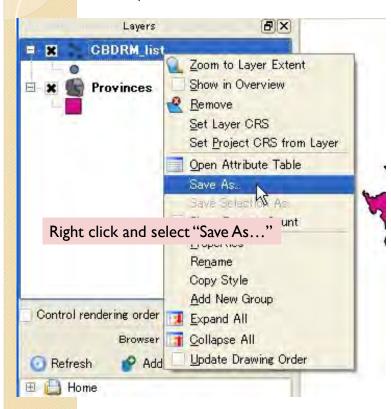


4.1.2 Import CBDRM data from Excxel file



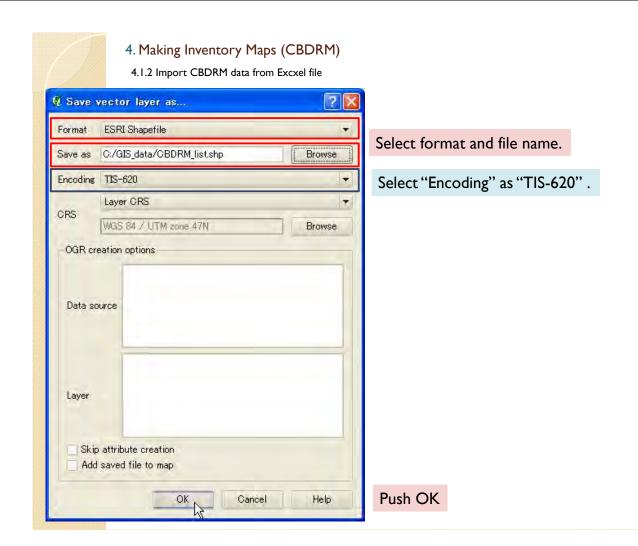
4. Making Inventory Maps (CBDRM)

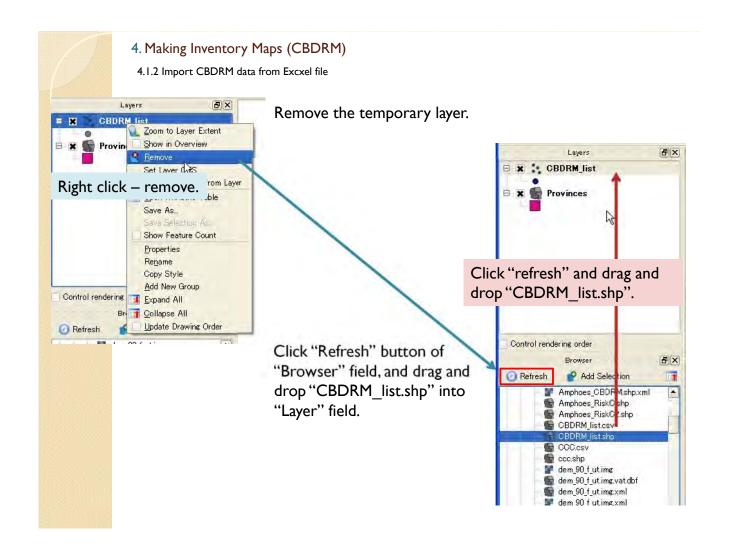
4.1.2 Import CBDRM data from Excxel file



Then, the data will imported.

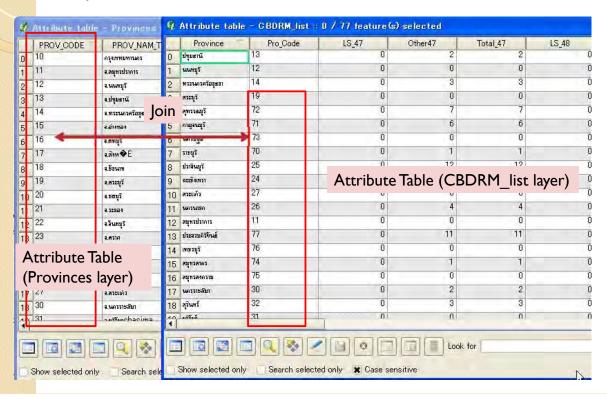
This is temporary layer, thus save this layer as new file.

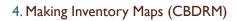




4.1.3 Join attribute table

In next step, attribute table of "CBDRM_list" will be joined into "Provinces" layers.

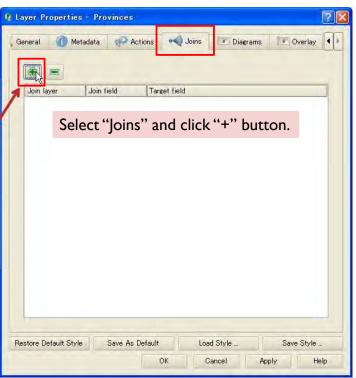




4.1.3 Join attribute table

Open "Properties" window and select "Join" tab.

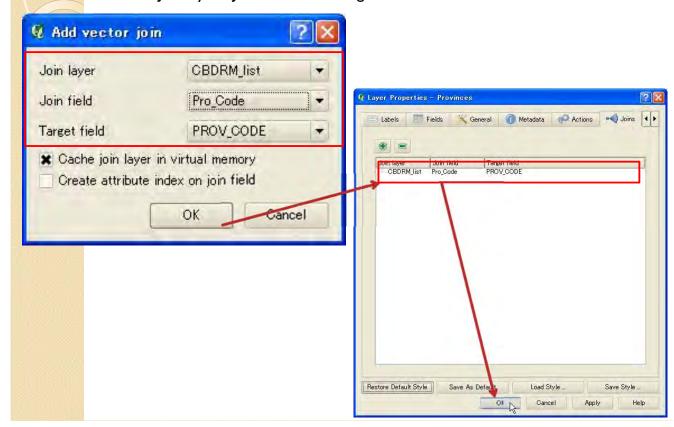






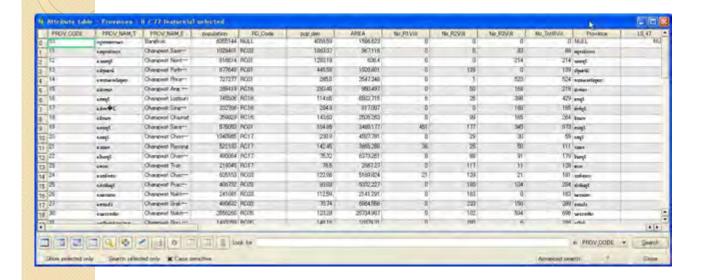
4.1.3 Join attribute table

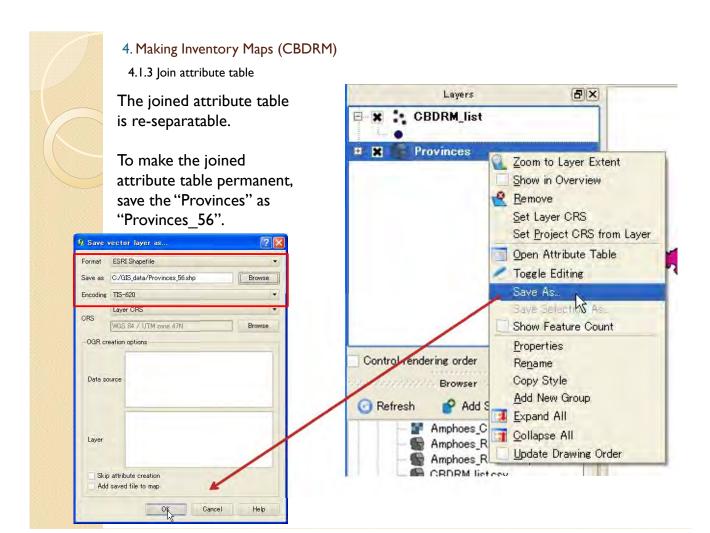
Select "Join layer", Join field" and "Target field".



- 4. Making Inventory Maps (CBDRM)
- 4.1.3 Join attribute table

Then, attribute table should be joined.





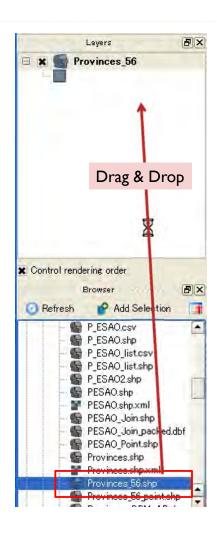
- 4. Making Inventory Maps (CBDRM)
- 4.2 Making CBDRM map
- 4.2.1 Import data

Click "Refresh", and drag and drop "Provinces_56.shp" and "Provinces_point.shp".

"Provinces_point.shp" is for label indication.

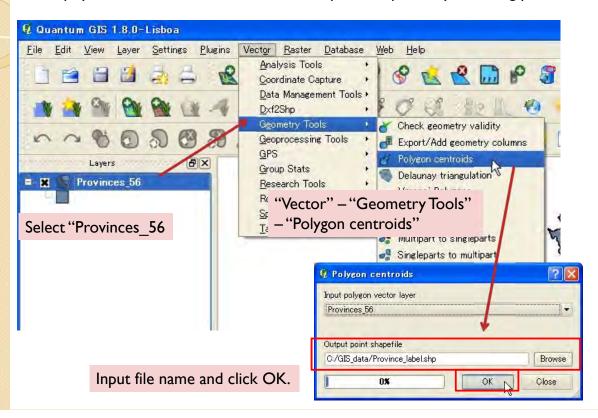
After you made joined shape files, "provinces_56.shp", once, it is not necessary to remake these shape file. You can use these file directly to make inventory maps.

In case you want to update the data, it is required to remake or edit these files.

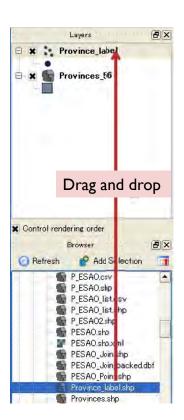


- 4. Making Inventory Maps (CBDRM)
- 4.2.2 Make point data for labeling

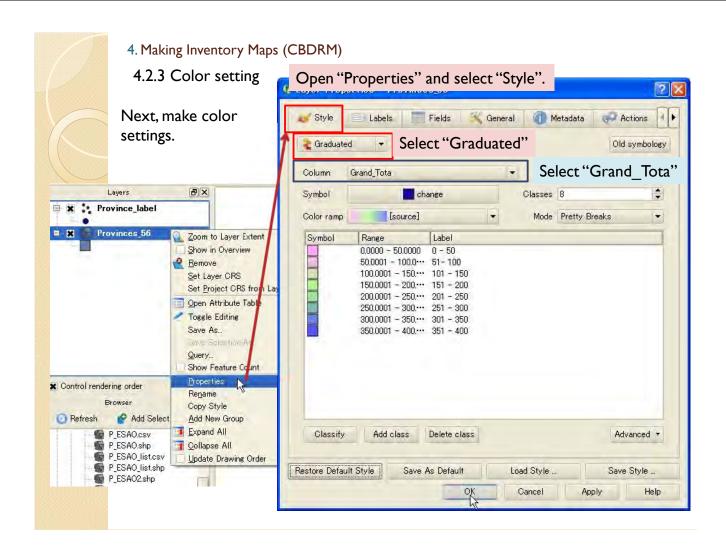
To display labels in QGIS, it is better to make point shape file by following process.



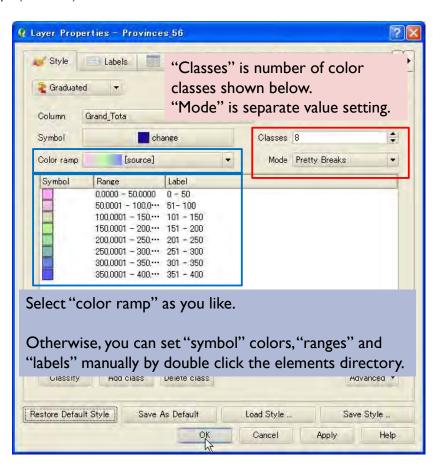
- 4. Making Inventory Maps (CBDRM)
- 4.2.2 Make point data for labeling

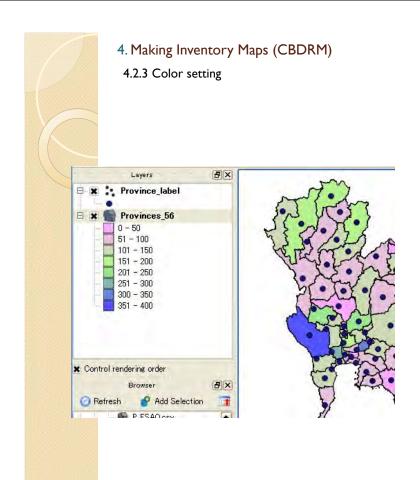


Import the file you made.

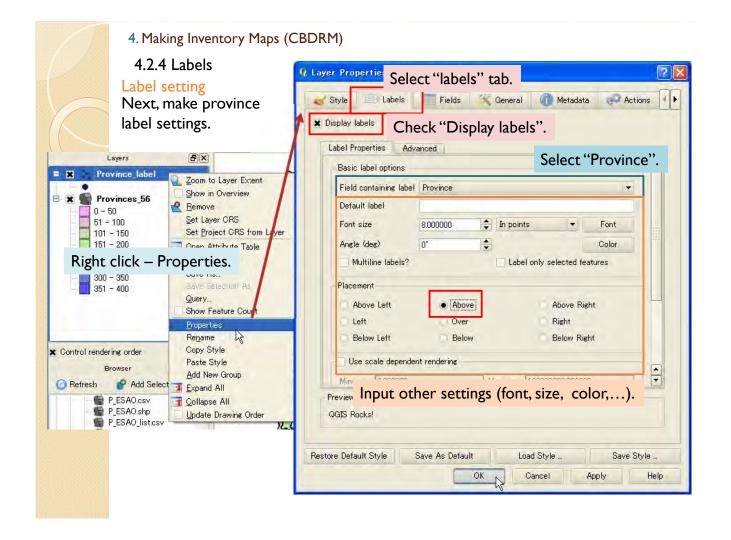


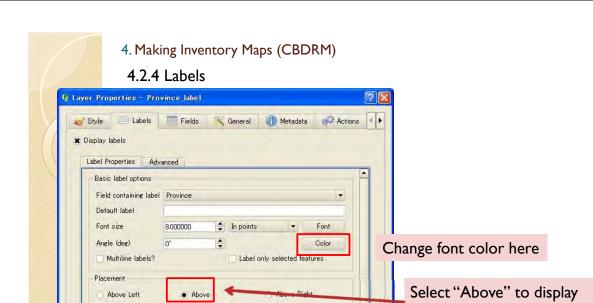
4.2.3 Color setting





Then, you can see the colored map of total conducted numbers of CBDRM.





Right

Maximum 100000000.000000

Below Right

Check and select buffer size and color

Cancel Apply Help

4. Making Inventory Maps (CBDRM)

Over

Below

Buffer size 1,00 ♣ In map units ▼ Color Transparency 0% ♣

to make margin.

OK

Left

Below Left

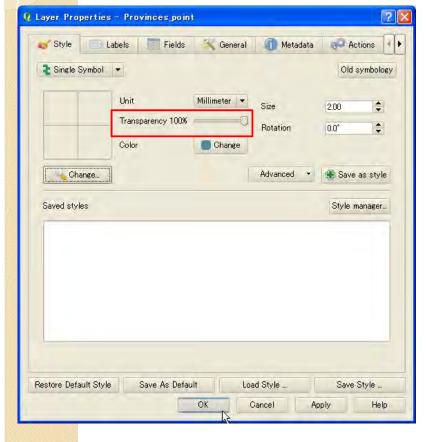
Minimum 1.000000

■ Buffer labels

QGIS Rocks!

Use scale dependent rendering

4.2.4 Labels



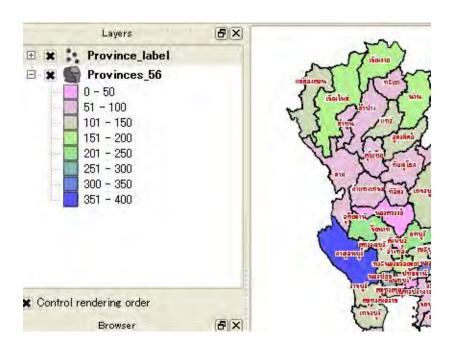
Set "Transparency" to 100 % to remove point symbols.

upper position.



4.2.4 Labels

Then, the province names are displayed in the map.

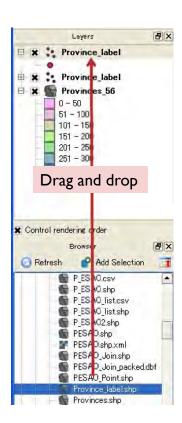


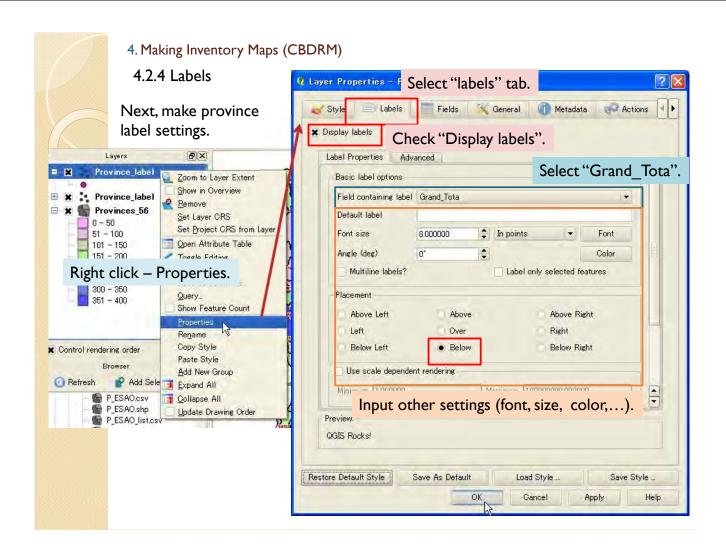
4. Making Inventory Maps (CBDRM)

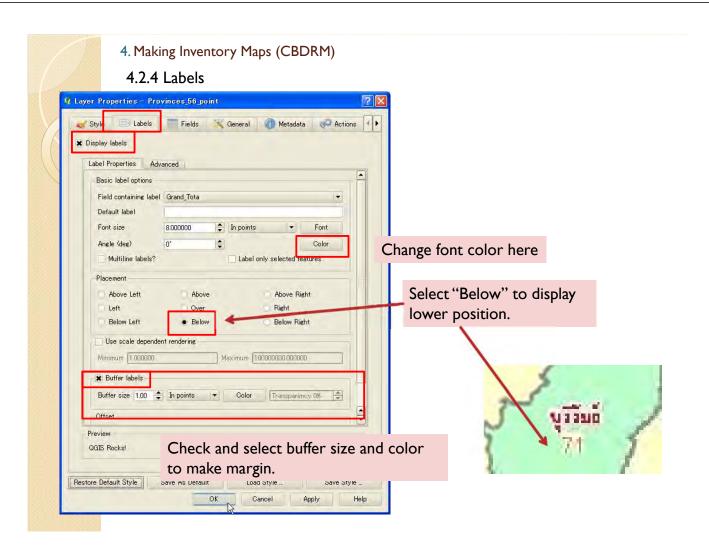
4.2.4 Labels

Next, make province label settings.

Import "Province_label" one more.







4.2.4 Labels

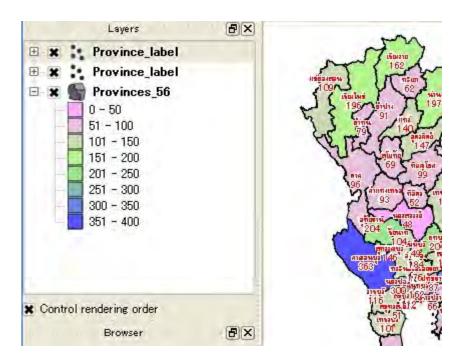


Set "Transparency" to 100 % to remove point symbols.

4. Making Inventory Maps (CBDRM)

4.2.4 Labels

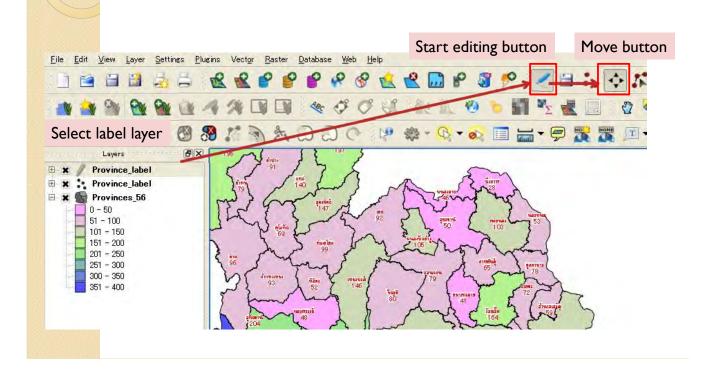
Then, the labels are displayed in the map.

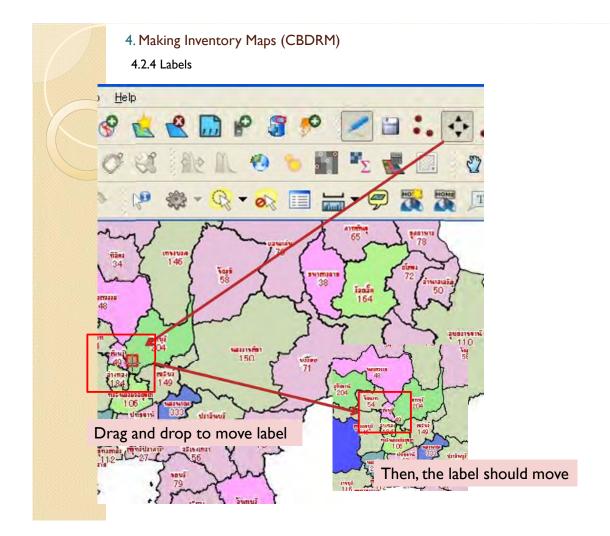




Move labels

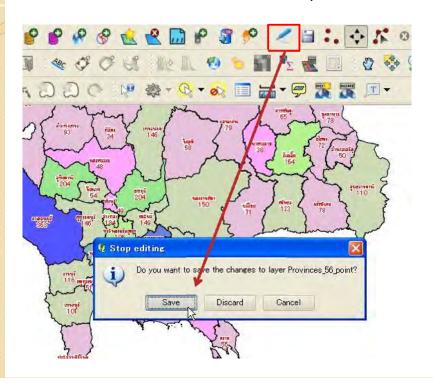
In some case, the labels may overlap each other. You can move the lapped labels by following process.

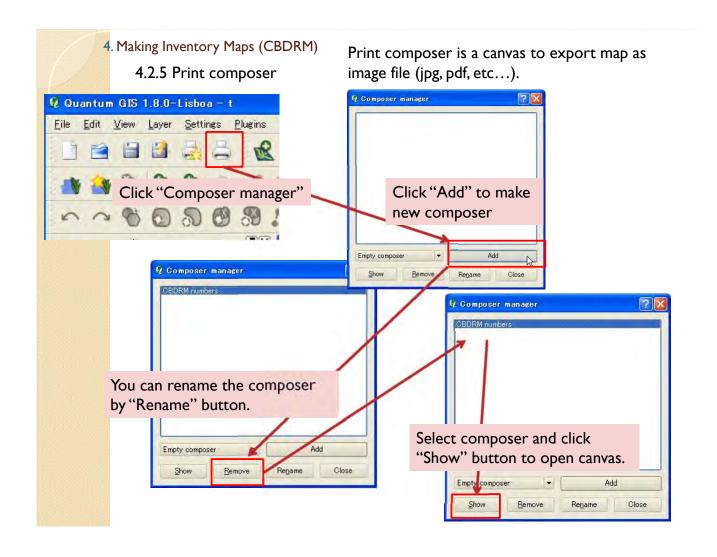


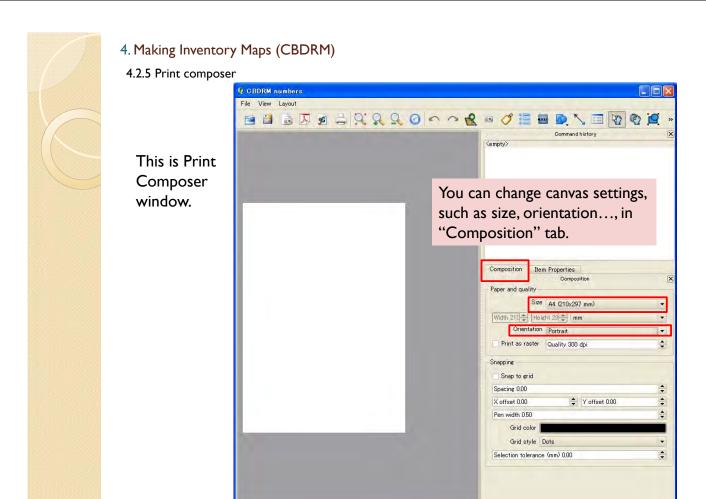


4.2.4 Labels

After you finish moving labels, re-click edit button and save changes. Then, the labels should be fixed at new position.

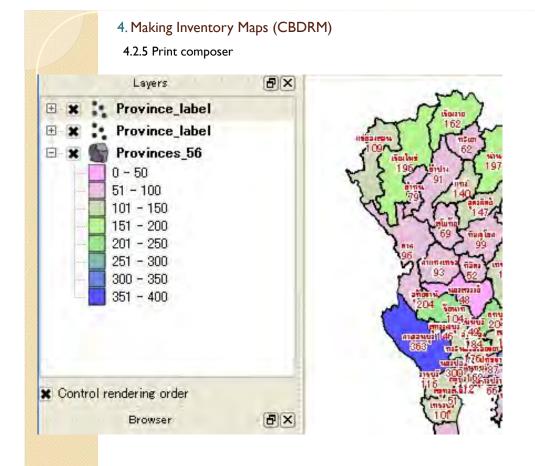






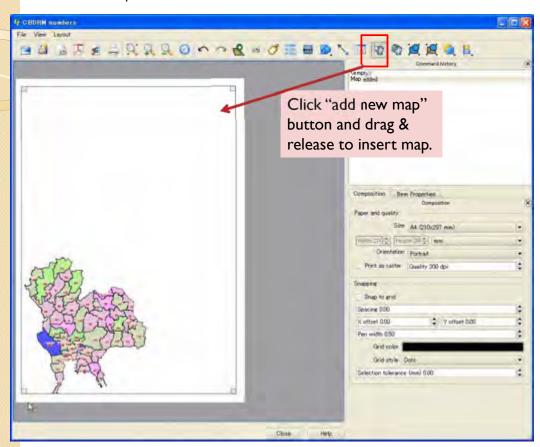
Close

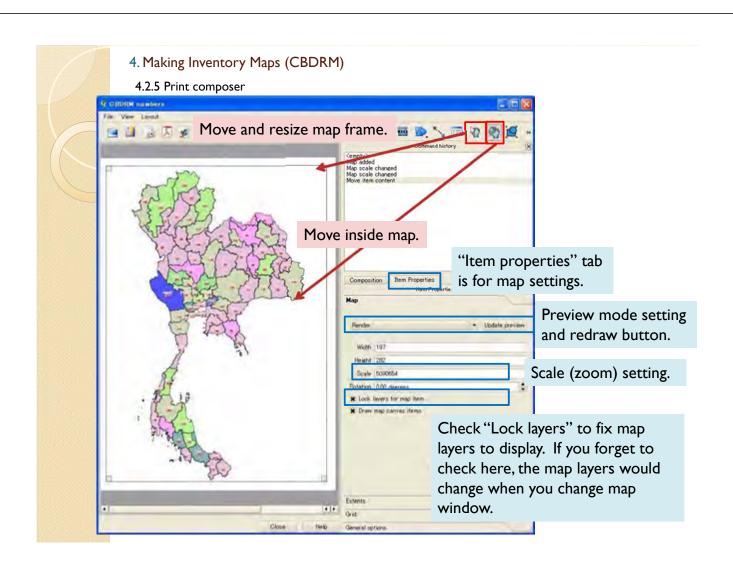
Help



To make inventory map of whole Thailand, please display total numbers of conducted CBDRM colored map and labels in the QGIS map window.

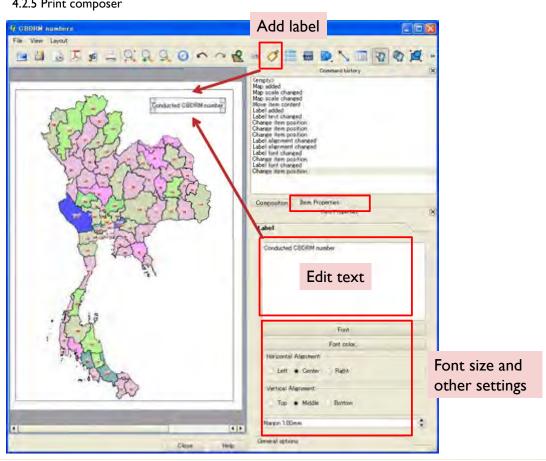
4.2.5 Print composer

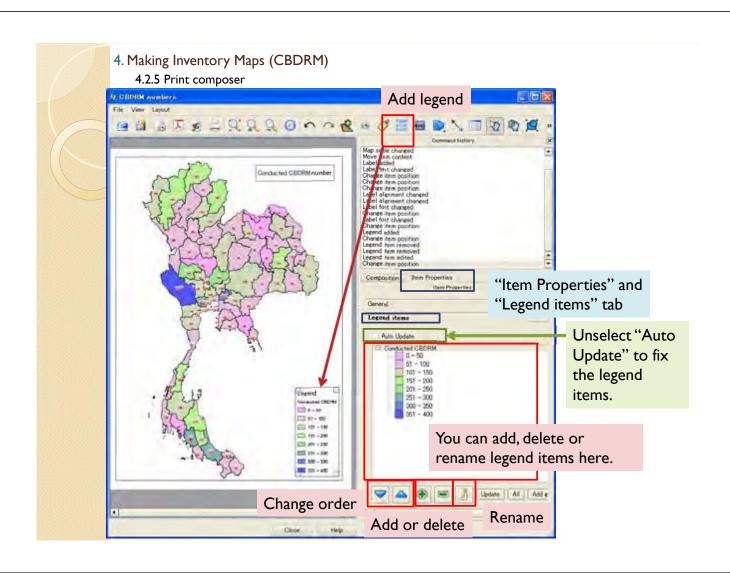






4.2.5 Print composer







4.2.5 Print composer

It is able to export map to file.

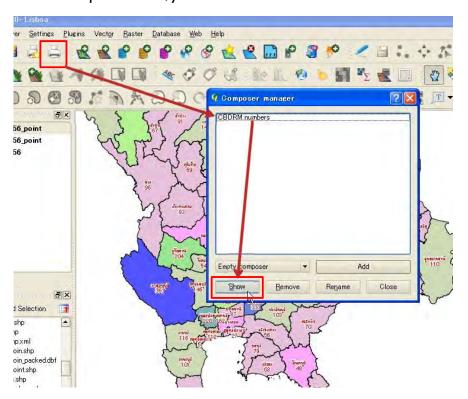
Export as image file

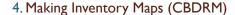


4. Making Inventory Maps (CBDRM)

4.2.5 Print composer

After you made composer once, you can recall the canvas from this button.



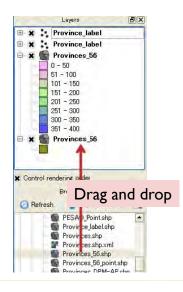


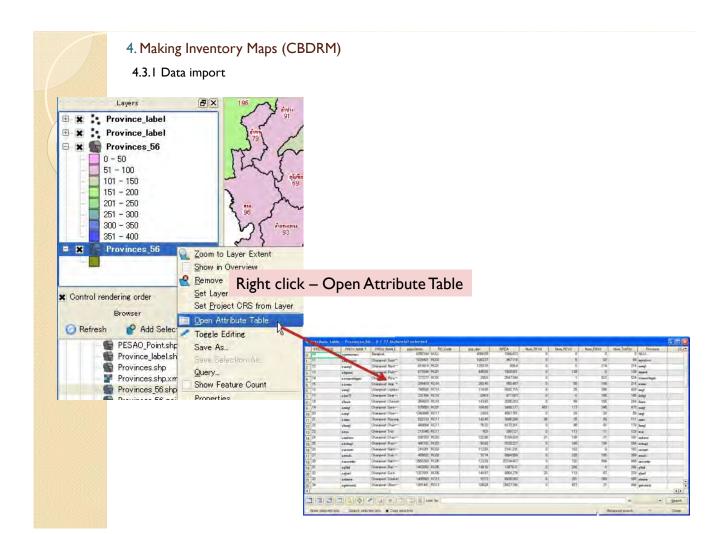
- 4.3 Map of CBDRM conducting percentage in risk community
- 4.3.1 Data import

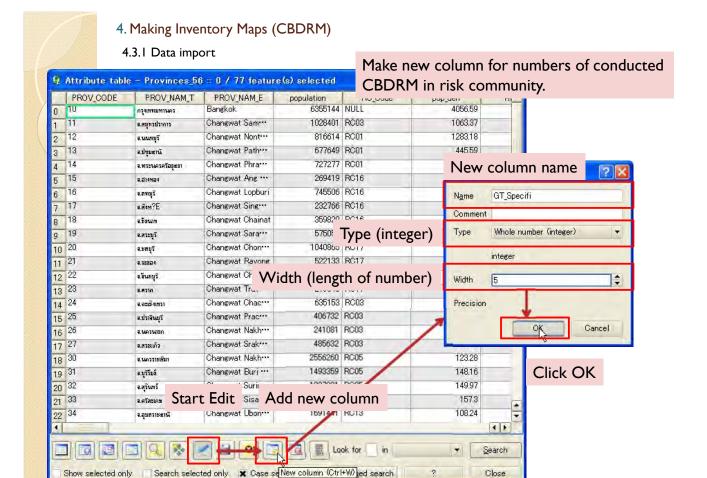
You can import data about CBDRM conducting percentage in risk community from Excel file by same process in 4.1.2.

Other method is directly input to the province shape file. Following is explanation about making new column in attribute table and input the information.

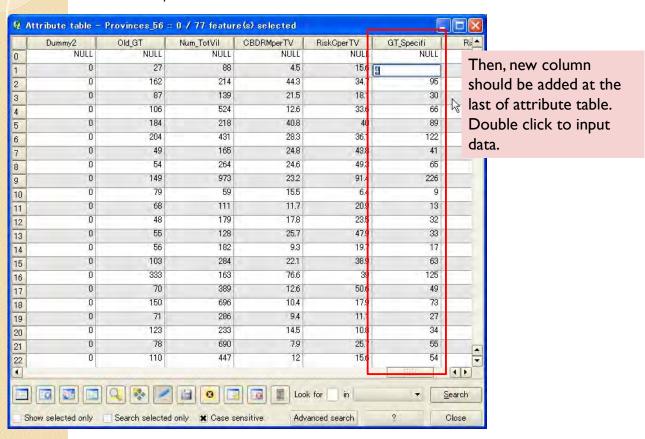
At first, import "Province 56", one more.



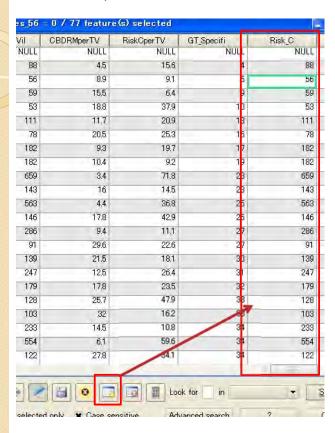




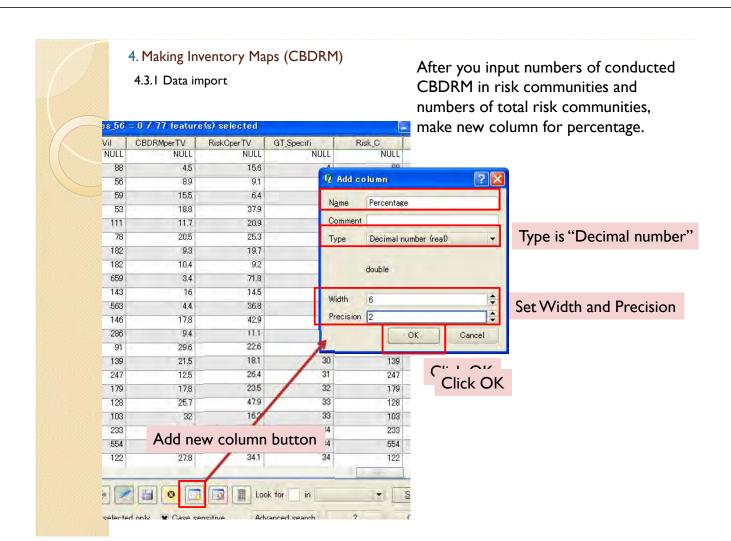
4.3.1 Data import

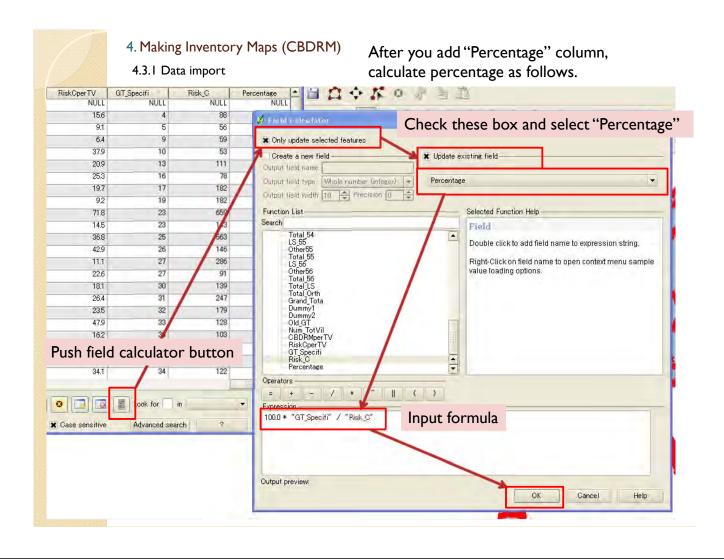


4.3.1 Data import

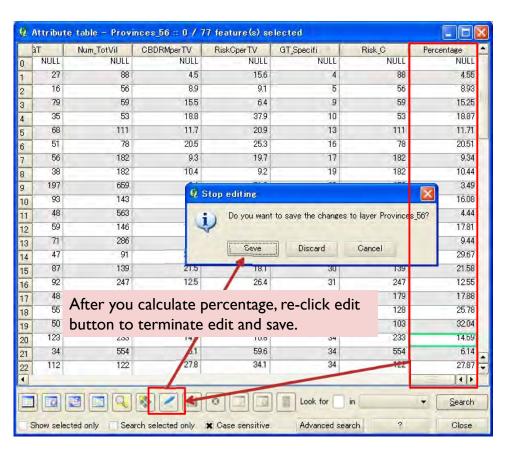


You can also make "Risk_C" column for numbers of total risk community.



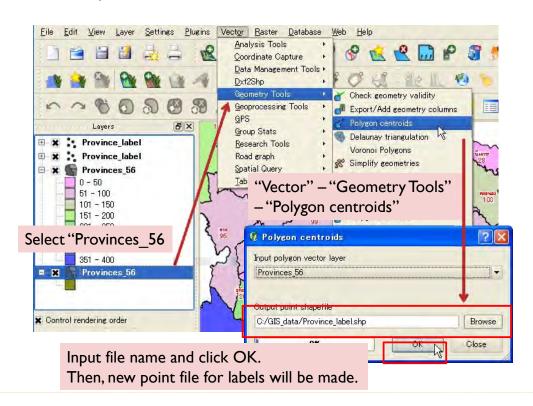


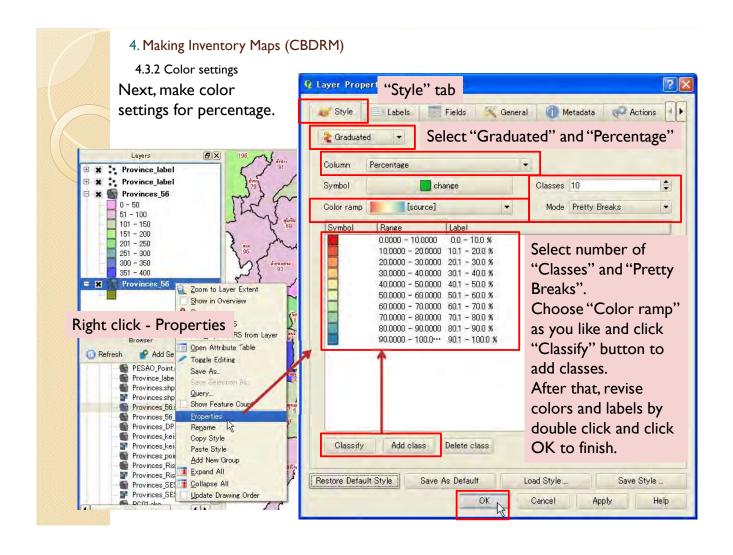
4.3.1 Data import

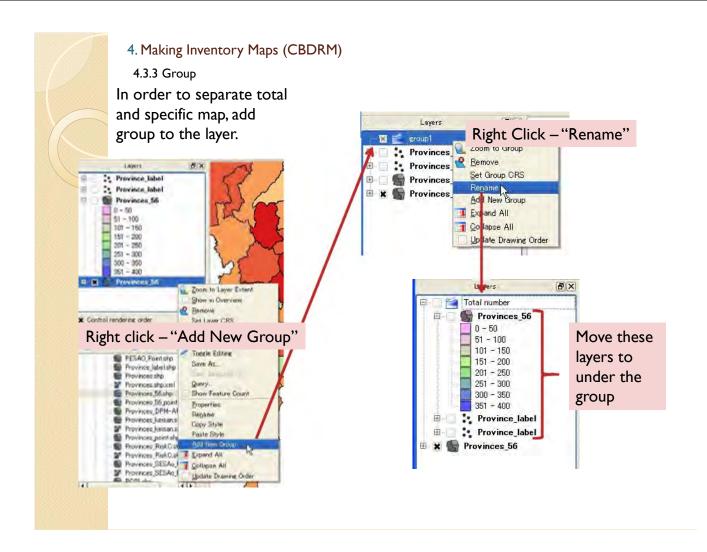


4.3.1 Data import

Next, make point data for labels same as 4.2.2

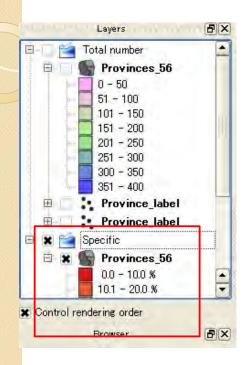






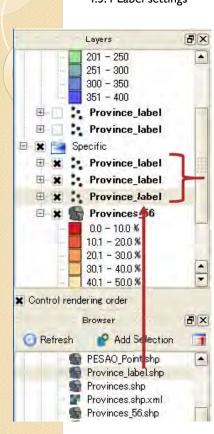


4.3.3 Group

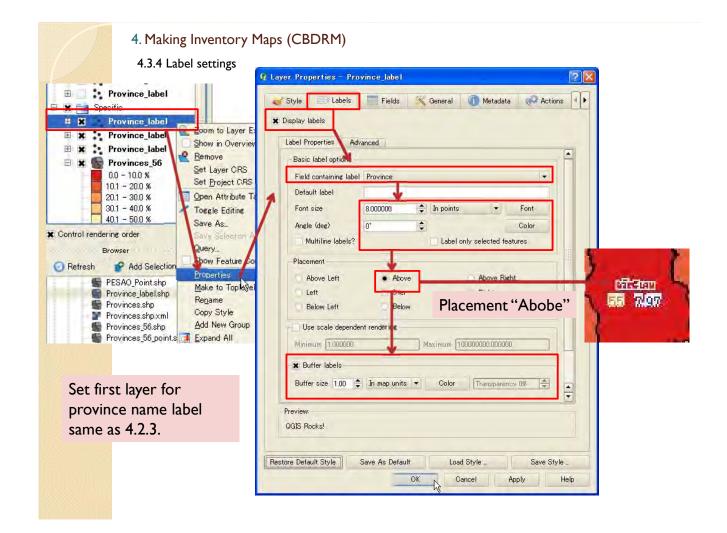


Make Specific group by same process.

4.3.4 Label settings

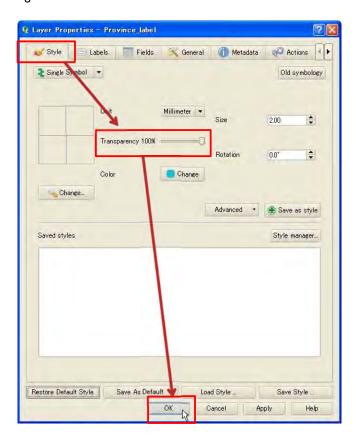


In order to make label, import three layers for label you made in 4.3.1.

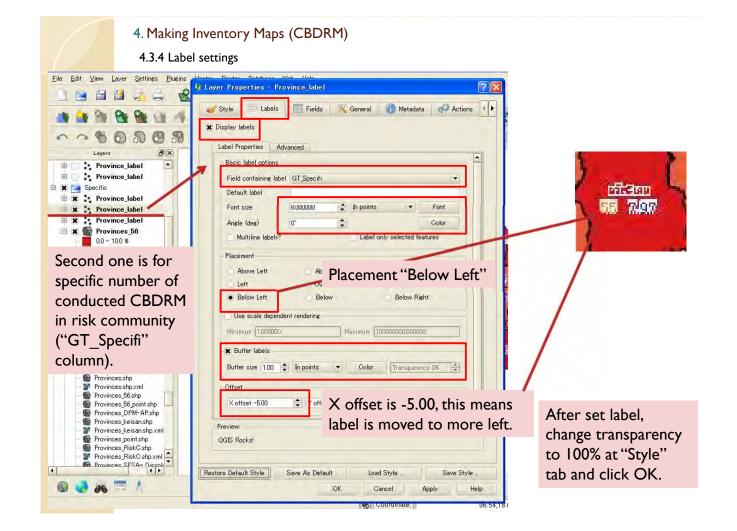


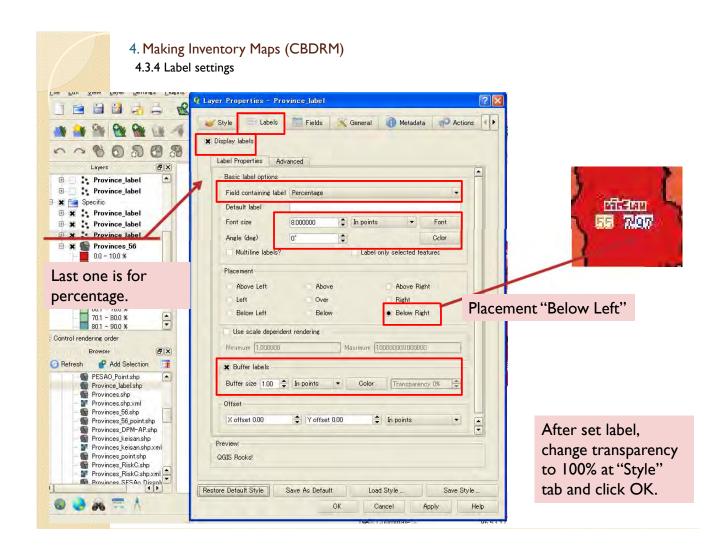


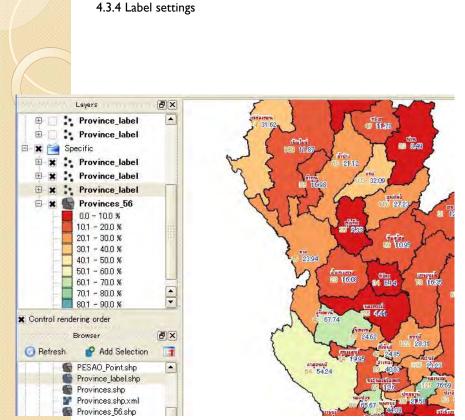
4.3.4 Label settings



After make label, set transparency to 100% and push OK to finish.







Then, you can see the progress percentage map for CBDRM in risk communities.

If there are some overlaps of labels, you can move (see 4.2.3 move labels).

