

How to show the mobile logger data using the SESlogger software

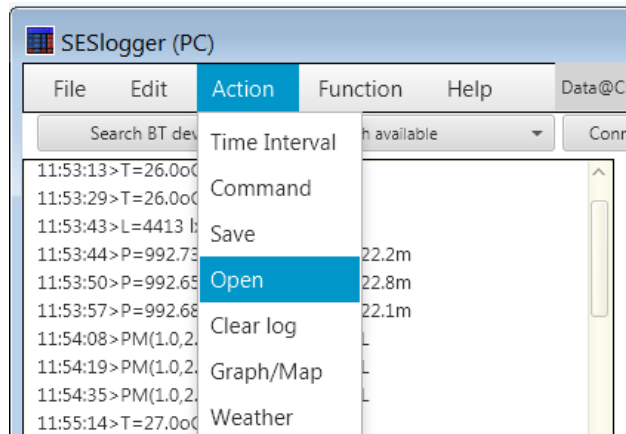
Installation of the SESlogger software

Download the SESlogger software for server, workstation, PC, notebook or netbook running Windows 7/8/10, Linux, Unix, MacOS and Raspberry Pi from

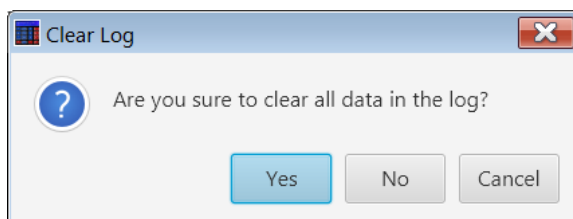
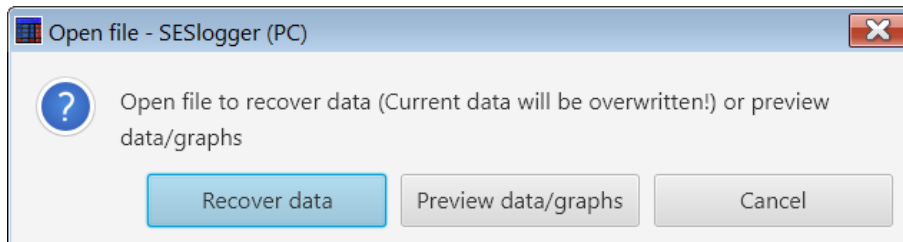
<http://has.eduhk.hk/seslogger/>

Follow the instructions to install the software.

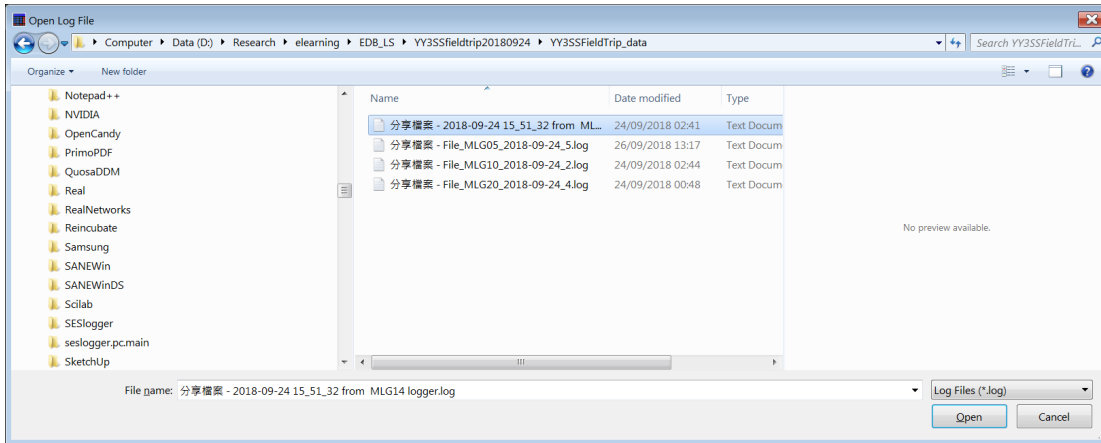
Plot a graph for each type of data collected by a particular group



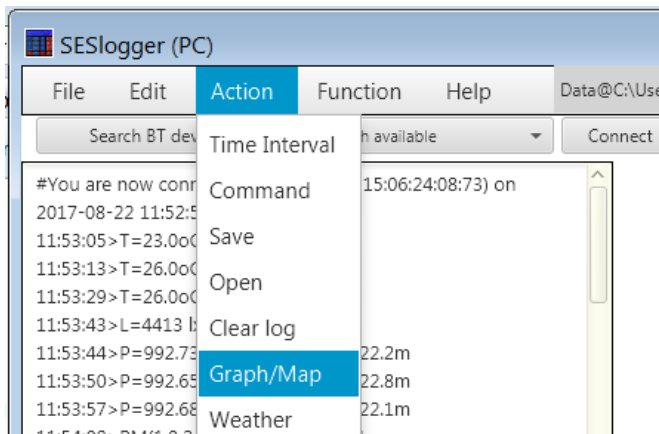
1. Open a log file: Menu → Action → Open.
2. Click “Recover data” button (and then “Yes” button to clear all data in the log)



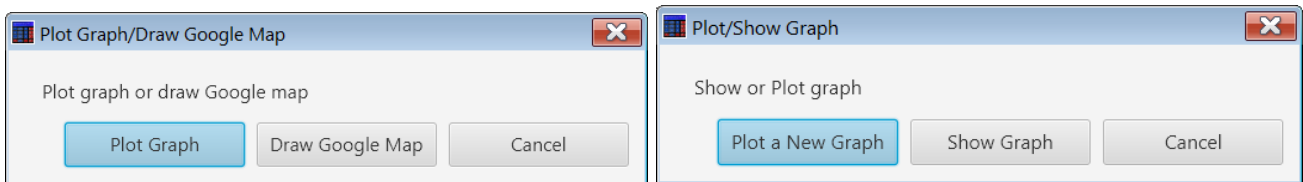
3. Select a log file to open.



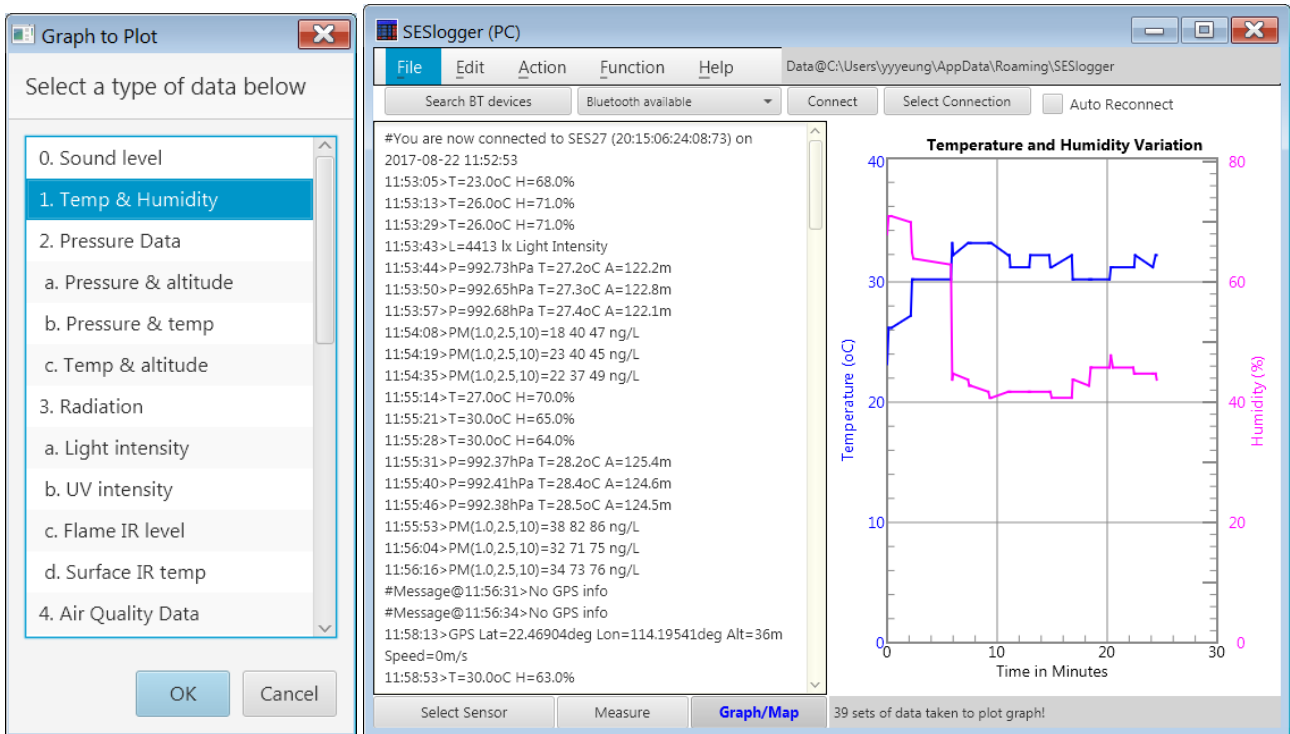
4. Select Menu → Action → Graph/Map



5. Click “Plot Graph” button and then “Plot a New Graph” button.

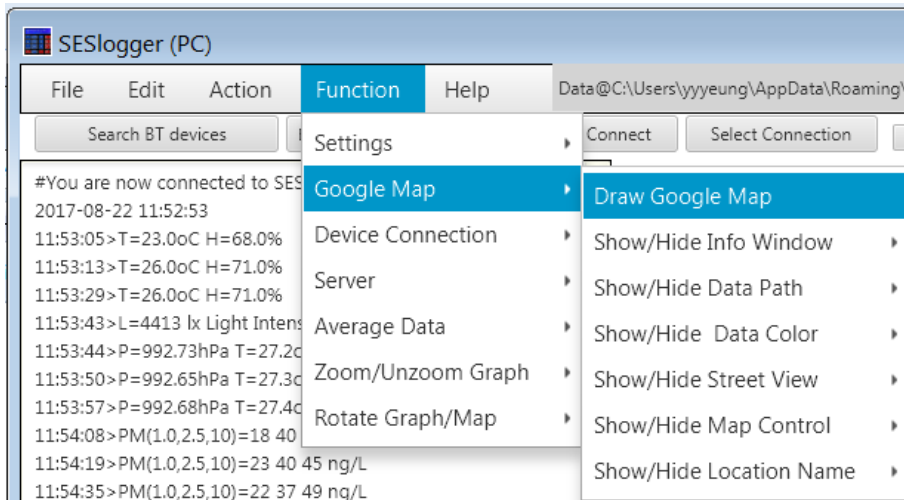


6. Select a type of data (that have actually been collected in the log file) to plot the graph, e.g. “1. Temp & Humidity”. The corresponding will be shown on the left panel and you show it in a maximum window.

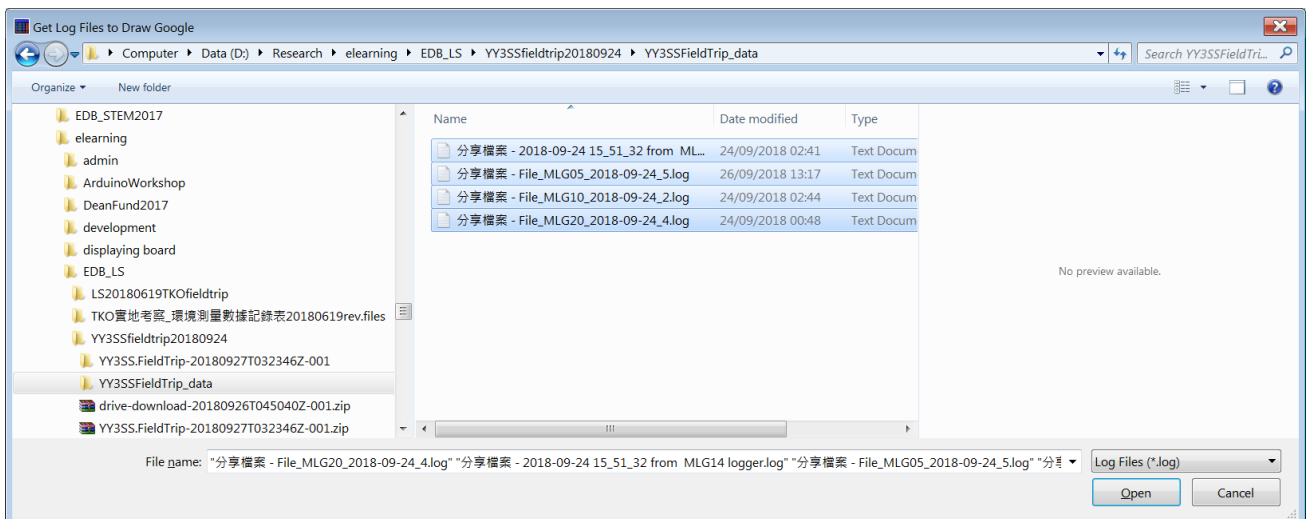


To draw a Google map (for comparison of data across groups)

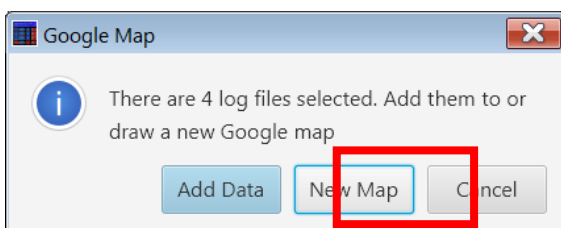
1. Select Menu → Function → Google Map → Draw Google Map



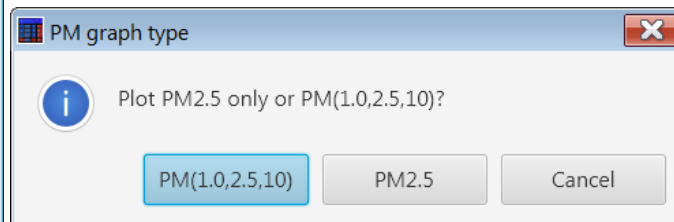
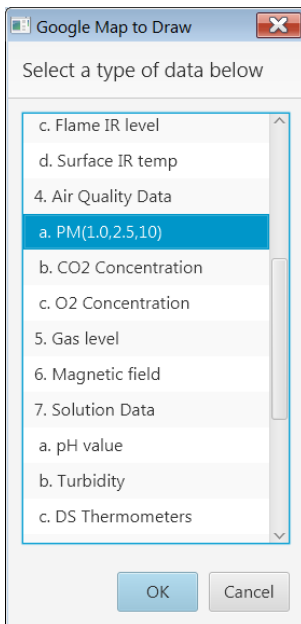
2. Select all the relevant log files for different groups (Press [Shift] button together with mouse click)



3. Click "New Map" button (or "Add Data" if you have already draw a Google map)



4. Select a type of data (that have actually been collected with GPS data) to show in the Google map, e.g. "4 a. PM(1.0,2.5,10). You may choose to show on "PM2.5" or "PM1.0, PM2.5 and PM10 together"



5. A Google map will be shown in the left panel. You may manipulate the map with the zoom (+-), Map and Satellite legends.

Log Data:

```
#You are now connected to SES27 (20:15:06:24:08:73) on
2017-08-22 11:52:53
11:53:05>T=23.0oC H=68.0%
11:53:13>T=26.0oC H=71.0%
11:53:29>T=26.0oC H=71.0%
11:53:43>L=4413 lx Light Intensity
11:53:44>P=992.73hPa T=27.2oC A=122.2m
11:53:50>P=992.65hPa T=27.3oC A=122.8m
11:53:57>P=992.68hPa T=27.4oC A=122.1m
11:54:08>PM(1.0,2.5,10)=18 40 47 ng/L
11:54:19>PM(1.0,2.5,10)=23 40 45 ng/L
11:54:35>PM(1.0,2.5,10)=22 37 49 ng/L
11:55:14>T=27.0oC H=70.0%
11:55:21>T=30.0oC H=65.0%
11:55:28>T=30.0oC H=64.0%
11:55:31>P=992.37hPa T=28.2oC A=125.4m
11:55:40>P=992.41hPa T=28.4oC A=124.6m
11:55:46>P=992.38hPa T=28.5oC A=124.5m
11:55:53>PM(1.0,2.5,10)=38 82 86 ng/L
11:56:04>PM(1.0,2.5,10)=32 71 75 ng/L
11:56:16>PM(1.0,2.5,10)=34 73 76 ng/L
#Message@11:56:31>No GPS info
#Message@11:56:34>No GPS info
11:58:13>GPS Lat=22.46904deg Lon=114.19541deg Alt=36m
Speed=0m/s
11:58:53>T=30.0oC H=63.0%
```

Map Data Points:

- PM(1.0,2.5,10) #D3**
 PM=7.0 10.0 11.0ng/L
 GPS(A=28.5m S=0.0km/h)
 GPS(1970-01-01 15:15:08.000)
 GPS(22.3114N, 114.2598E)
- PM(1.0,2.5,10) #B6**
 PM=8.0 11.0 12.0ng/L
 GPS(A=70.8m S=0.0km/h)
 GPS(2018-09-24 15:28:19.000)
 GPS(22.3079N, 114.2614E)

6. To show another type of data (e.g. "0. Sound level", "1. Temp & Humidity", "3 d. Surface IR temp"), select Menu → Action → Graph/Map. Click "Draw Google Map" button and the "Show Other Data" button.

