



Risk Profiling



Data Needed:

- Buildings (point data)
- Earthquake hazard (eq_1.tif)
- Cyclone hazard (cyclone_1.tif)



Plugin Needed:

- Point Sampling Plugin

Load all layers to the project

1. Click point sampling tool icon

Original attribute table of building point

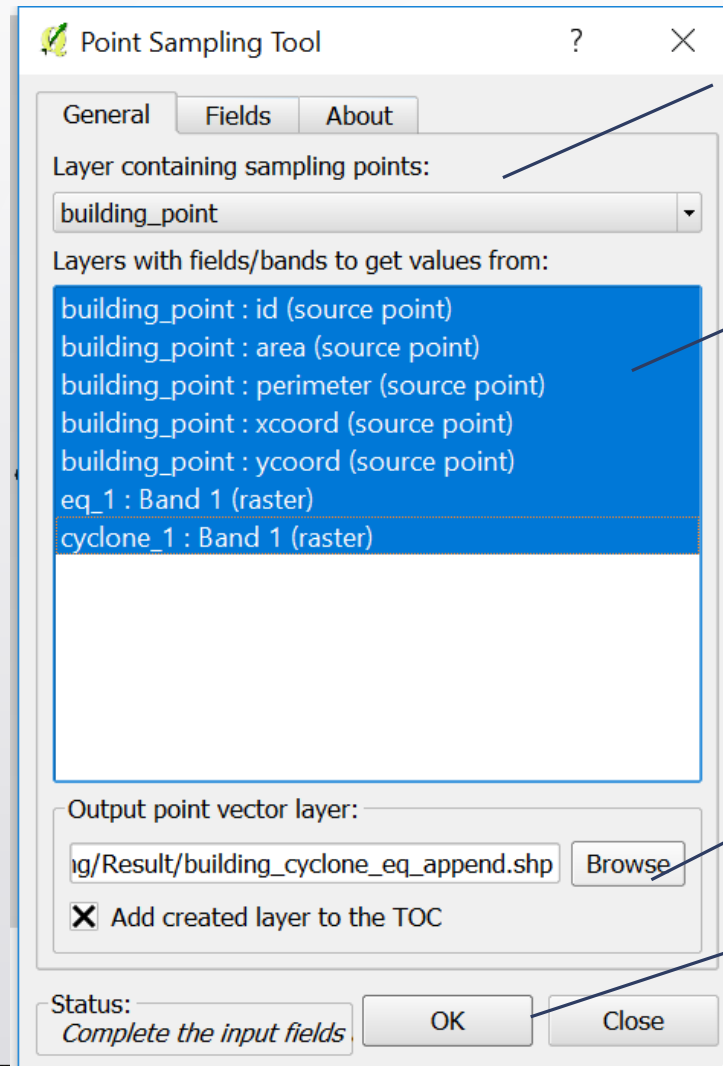
building_point :: Features total: 43210, filtered: 0

	id	area	perimeter	xcoord	ycoord
1	0	66.783203...	33.469098...	145.16876...	-5.228261...
2	1	38.660156...	25.177686...	145.16869...	-5.229528...
3	2	86.088867...	38.527906...	145.16845...	-5.229350...
4	3	36.087890...	24.229888...	145.16857...	-5.229486...
5	4	54.131835...	29.878590...	145.16864...	-5.229549...
6	5	55.494140...	30.193541...	145.16864...	-5.229437...
7	6	65.071289...	32.737789...	145.16868...	-5.229463...
8	7	29.486328...	22.305106...	145.16895...	-5.229008...
9	8	74.596679...	36.696615...	145.16893...	-5.228752...
10	9	46.472656...	27.311810...	145.16895...	-5.228666...
11	10	66.936523...	33.834098...	145.16889...	-5.228635...
12	11	48.589843...	28.235256...	145.16881...	-5.228322...
13	12	44.404296...	28.113099...	145.16890...	-5.228516...
14	13	55.291992...	30.007166...	145.17166...	-5.227192...
15	14	62.499023...	31.912941...	145.17168...	-5.227118...
16	15	69.102539...	33.437826...	145.17173...	-5.226957...

2 legend entries removed.

Coordinate 148.033,-2.210

Show All Features



2. Select point data
(building_point)

3. These are fieldnames,
select ALL

4. Output filename

5. OK

Result: Building point with cyclone appended

Name of new layer just created

building_cyclone_eq_append :: Features total: 43210, filtered: 43210, selected: 0

	id	area	perimeter	xcoord	ycoord	eq_1	cyclone_1
0	0	66.783203...	33.469098...	145.16876...	-5.228261...	4.64306	42.98640
2	1	38.660156...	25.177686...	145.16869...	-5.229528...	4.64306	42.98640
3	2	86.088867...	38.527906...	145.16845...	-5.229350...	4.64306	42.98640
4	3	36.087890...	24.229888...	145.16857...	-5.229486...	4.64306	42.98640
5	4	54.131835...	29.878590...	145.16864...	-5.229549...	4.64306	42.98640
6	5	55.494140...	30.193541...	145.16864...	-5.229437...	4.64306	42.98640
7	6	65.071289...	32.737789...	145.16868...	-5.229463...	4.64306	42.98640
8	7	29.486328...	22.305106...	145.16895...	-5.229008...	4.64306	42.98640
9	8	74.596679...	36.696615...	145.16893...	-5.228752...	4.64306	42.98640
10	9	46.472656...	27.311810...	145.16895...	-5.228666...	4.64306	42.98640
11	10	66.936523...	33.834098...	145.16889...	-5.228635...	4.64306	42.98640
12	11	48.589843...	28.235256...	145.16881...	-5.228322...	4.64306	42.98640
13	12	44.404296...	28.113099...	145.16890...	-5.228516...	4.64306	42.98640
14	13	55.291992...	30.007166...	145.17166...	-5.227192...	4.64306	42.98640
15	14	62.499023...	31.912941...	145.17168...	-5.227118...	4.64306	42.98640
16	15	60.102539...	33.437826...	145.17173...	-5.226957...	4.64306	42.98640

Show All Features

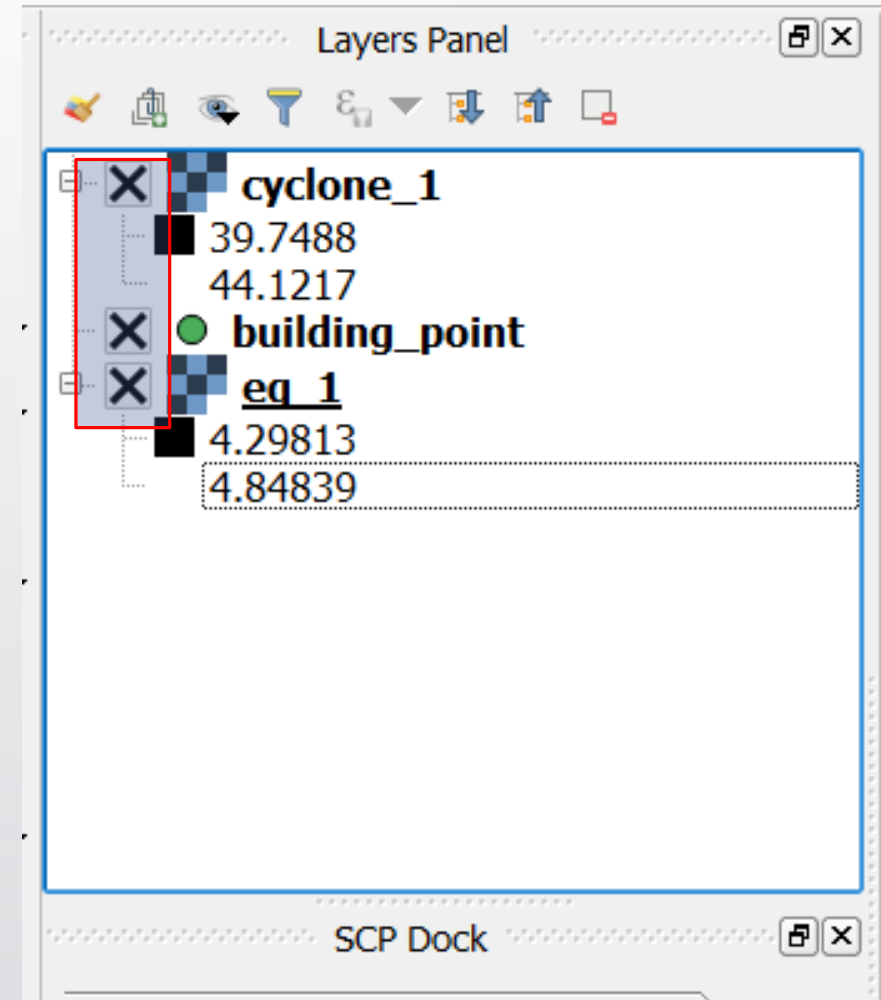
Represent earthquake magnitude per building

Represent wind speed of cyclone per building

Example, building with 'id' 10 is affected by 4.64306 EQ magnitude and 42.98640 kph wind speed cyclone

Reminders:

- You can append as many layer (raster) as you can.
- Be sure to activate (mark 'x') these layers in the table of contents or layers panel so that it can be processed/appended together.





Thank you