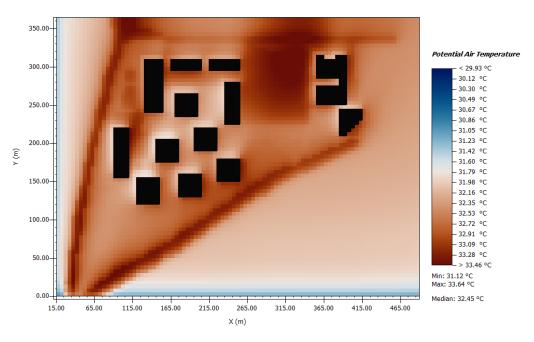
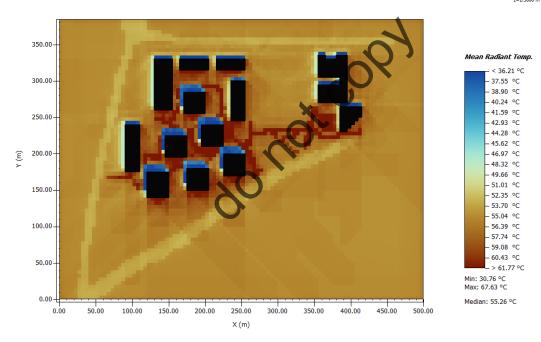
Envi-met visualisation quick guide

1. Single plot

Figure 1: Potential Air Temperature 12pm 30.06.2021

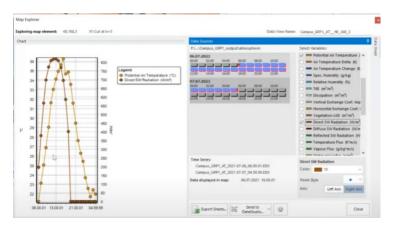


MRT 12.00.01 30.06.2021 z=1.5000 m



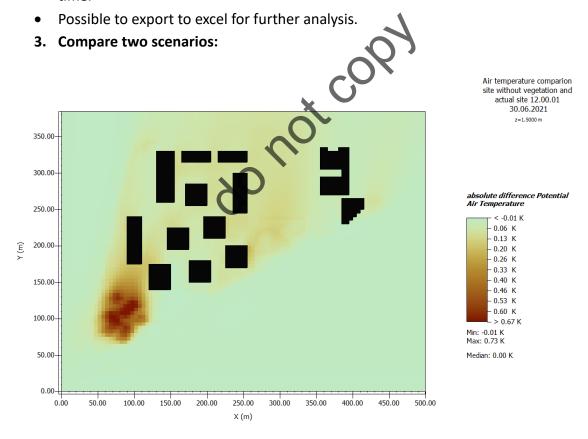
- Load data from output folder.
- Select relevant variable for visualisation.
- Set height for 2D map.

- Set colour palette on the left panel (e.g., for temperature, *Vik*, humidity, *roma inverted*, set start of colour from 20 colours, set number of colours to 20, step size and first value).
- Adjust x, y axis and other format.
- 2. Single location time series data



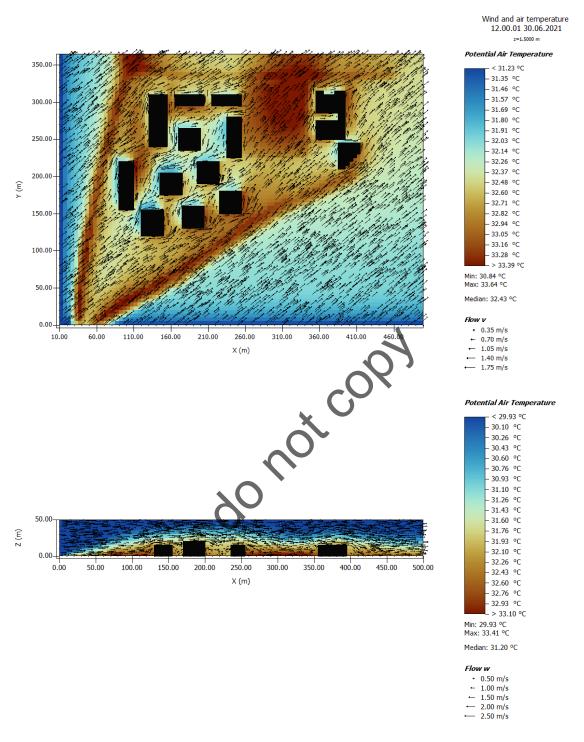
Steps:

- Select any locations of interest from map by right click and explore grid.
- In the pop-up window, you can select different variables and time duration, it also works for multiple variables at the same time, and it allows for two y axis at the same time.

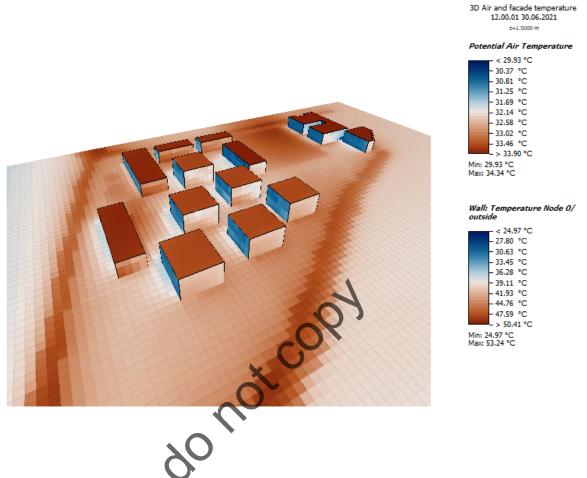


- Select data for File set A and B (Make sure the model areas are the same).
- Extract data to map, select variable of interest.
- Set height and click *compare 2D*. Difference = A B.
- Adjust colour scale in *datalayer legend*, starting from colour index 0, 20 colours, step size= absolute minimum value/10, first value = min value.

4. Wind map with air temperature



- Select data and set variables (data: potential air temperature, vector: u, v, w wind speed).
- Extract to 2D map, set height.
- Toggle on vector settings from upperleft panel.
- Turn on draw random vectors (specify density)
- change length scale vector to adjust visibility of lines,
- Adjust colour scale for potential air temperature.
- 5. 3-D visualization (e.g., air temperature, surface temperature



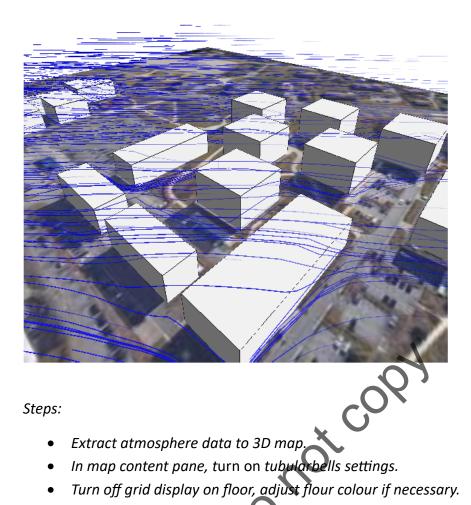
- Steps:
 - Extract data set A to 3D map potential air temperature.
 - Enable datalayer 3D settings and legend.
 - In filter by location, adjust height of the 3D (z-axis set to 0-1).

(Overley air temperature with building simulation outputs)

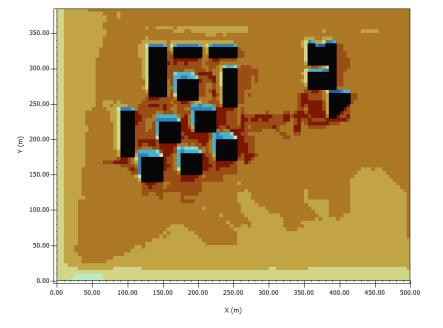
- On data source pane, set data to unchanged (this will hold the 3D air temperature data in place).
- Go to file set A, load building data from folder buildings/dynamic (choose same time).
- Set data variable to wall temperature node O/outside (outer surface temperature of the building).
- Enable façadelayer 3D in upper left pane.

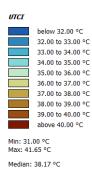
- In 3D settings light&vision, unclick enable light model.
- Adjust colour scale and legend.
- 6. 3D wind map

Figure 1: control_scenario 12.00.01 30.06.2021

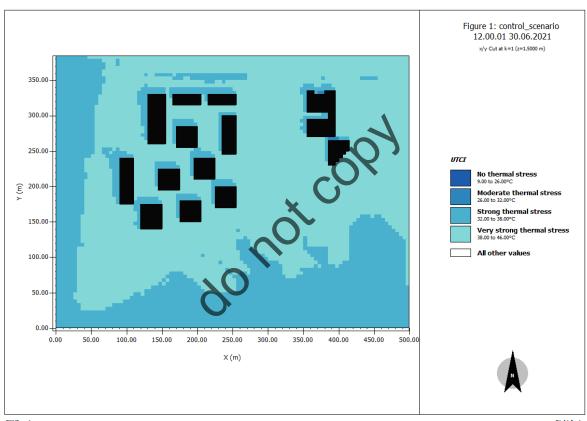


- In map content pane, turn on tubular bells settings.
- Turn off grid display on floor, adjust flour colour if necessary.
- Adjust colours (possible to use colour from datalayer 3D), tube diameter, number of tubes, according to the desired effect,
- 7. Outdoor thermal comfort









ERVI-met <Right foot>