

# Sunlight and shading

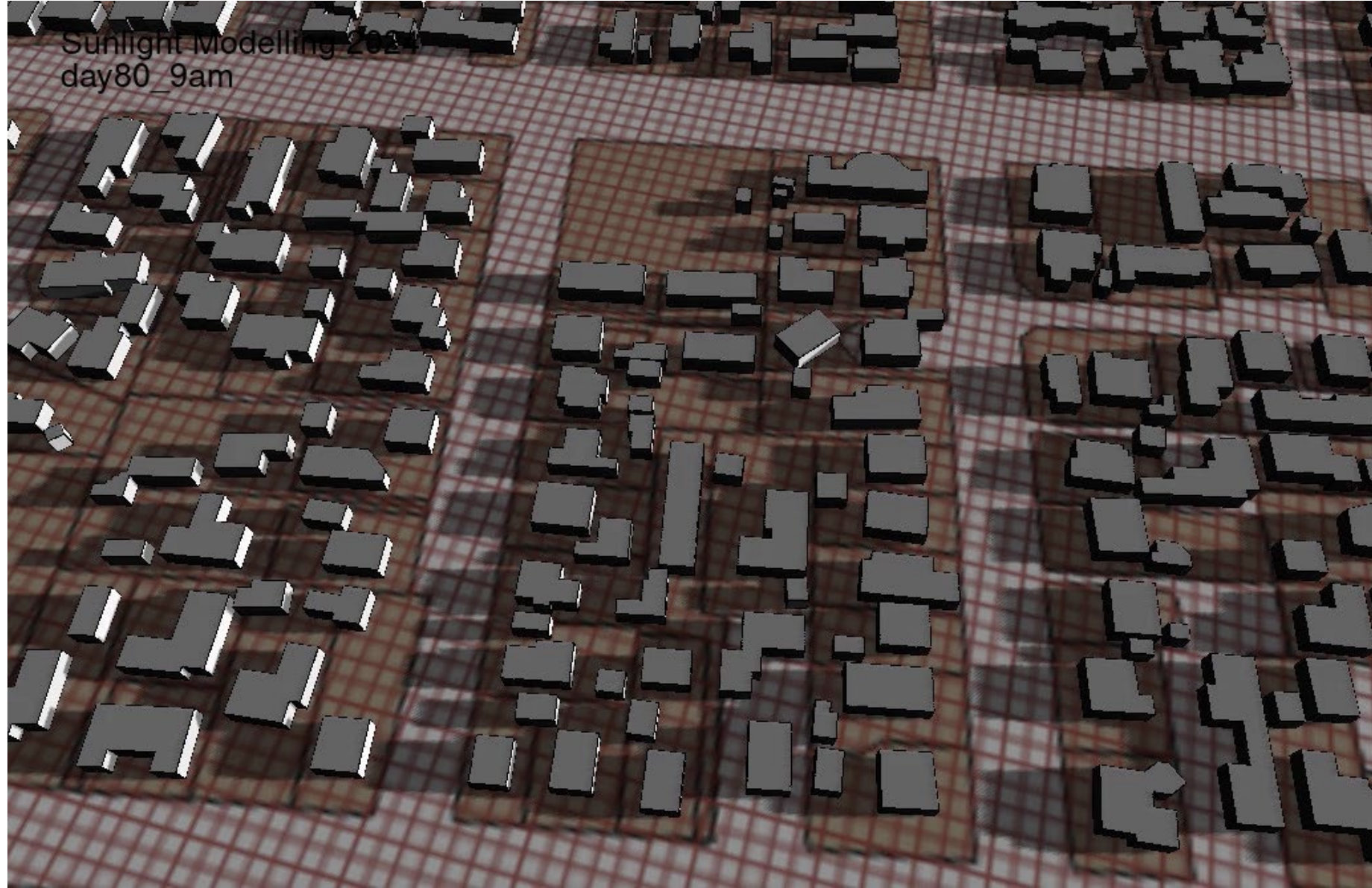
Peter Wilson

- Simple visualisation of modelling results
- Not the model itself – but a representation of it to understand underlying sunlight environment and shading patterns based on building height scenarios.
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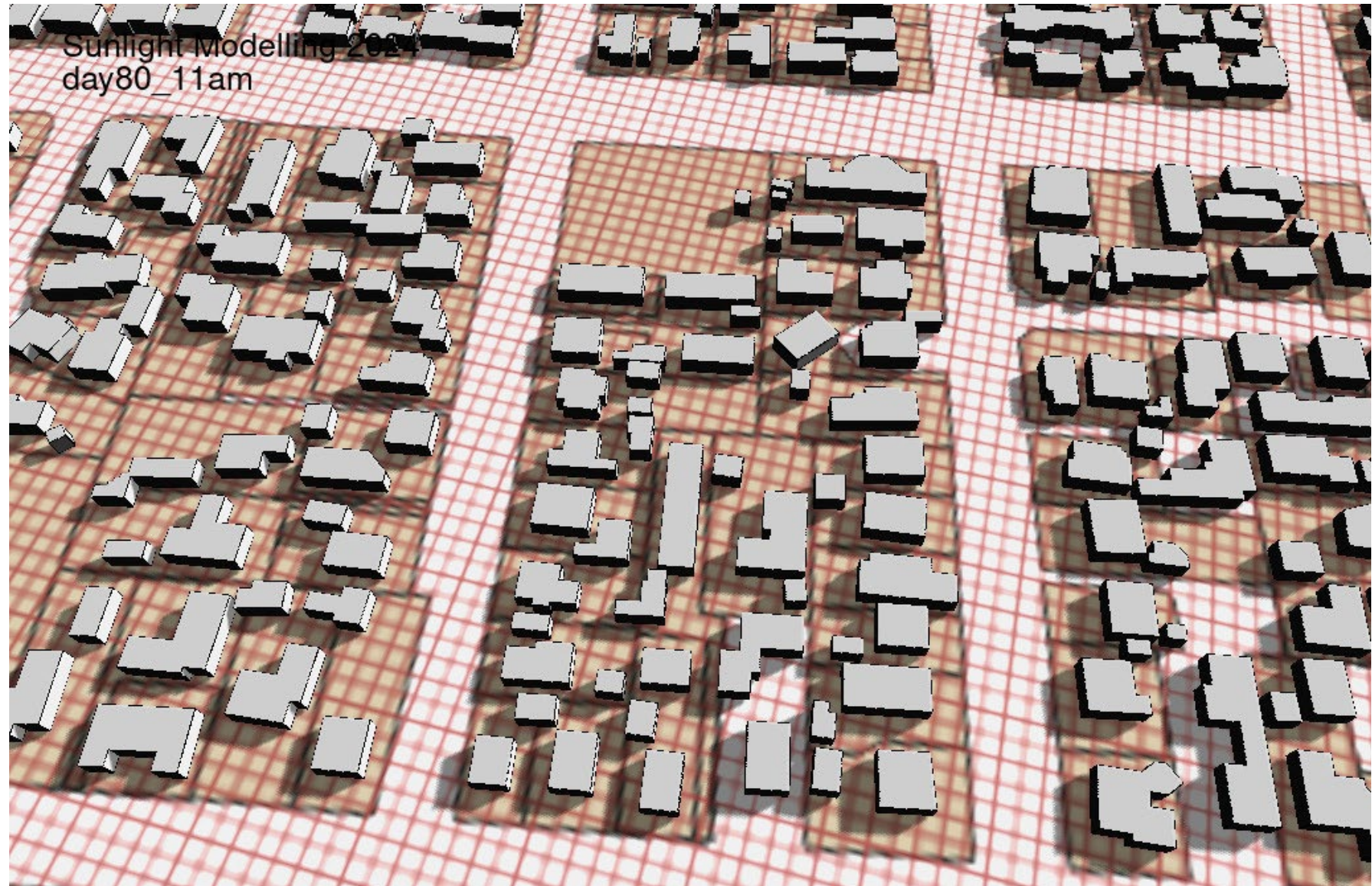
Autumn Equinox (Day 80)

Existing building heights (avg 5m)

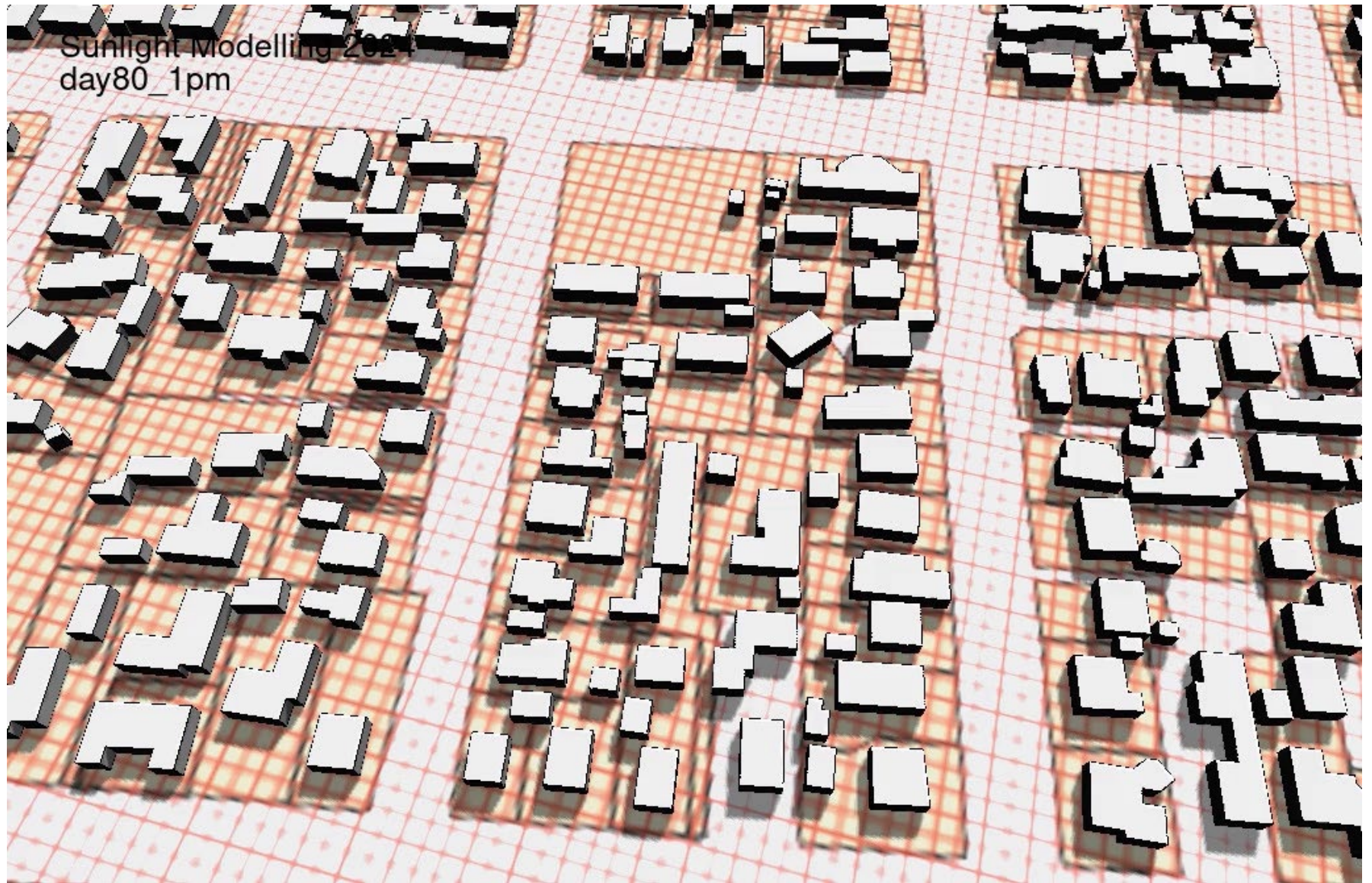
Sunlight Modelling 2024  
day80\_9am



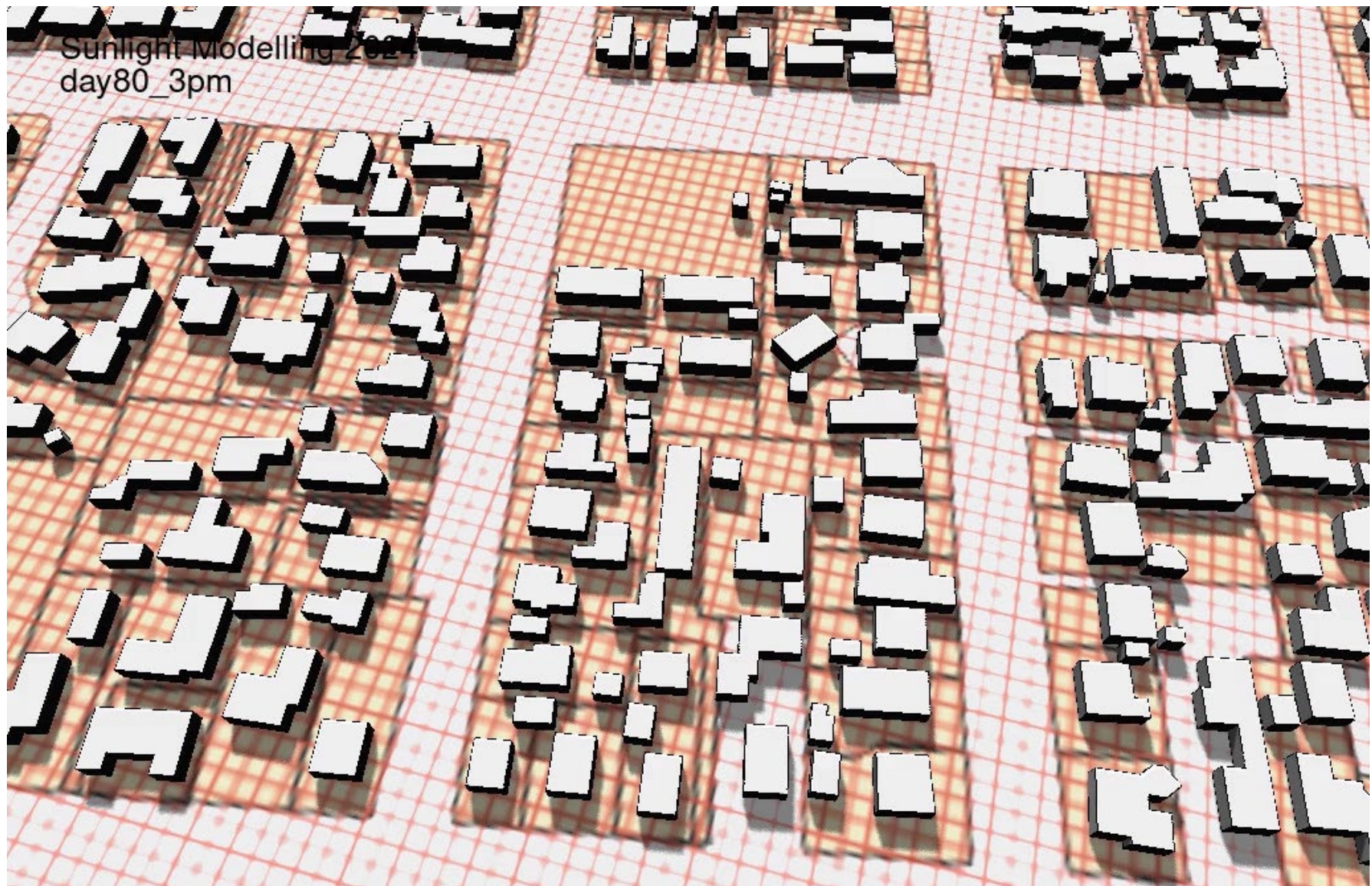
Sunlight Modelling 2024  
day80\_11am



Sunlight Modelling 202  
day80\_1pm



Sunlight Modelling 2024  
day80\_3pm

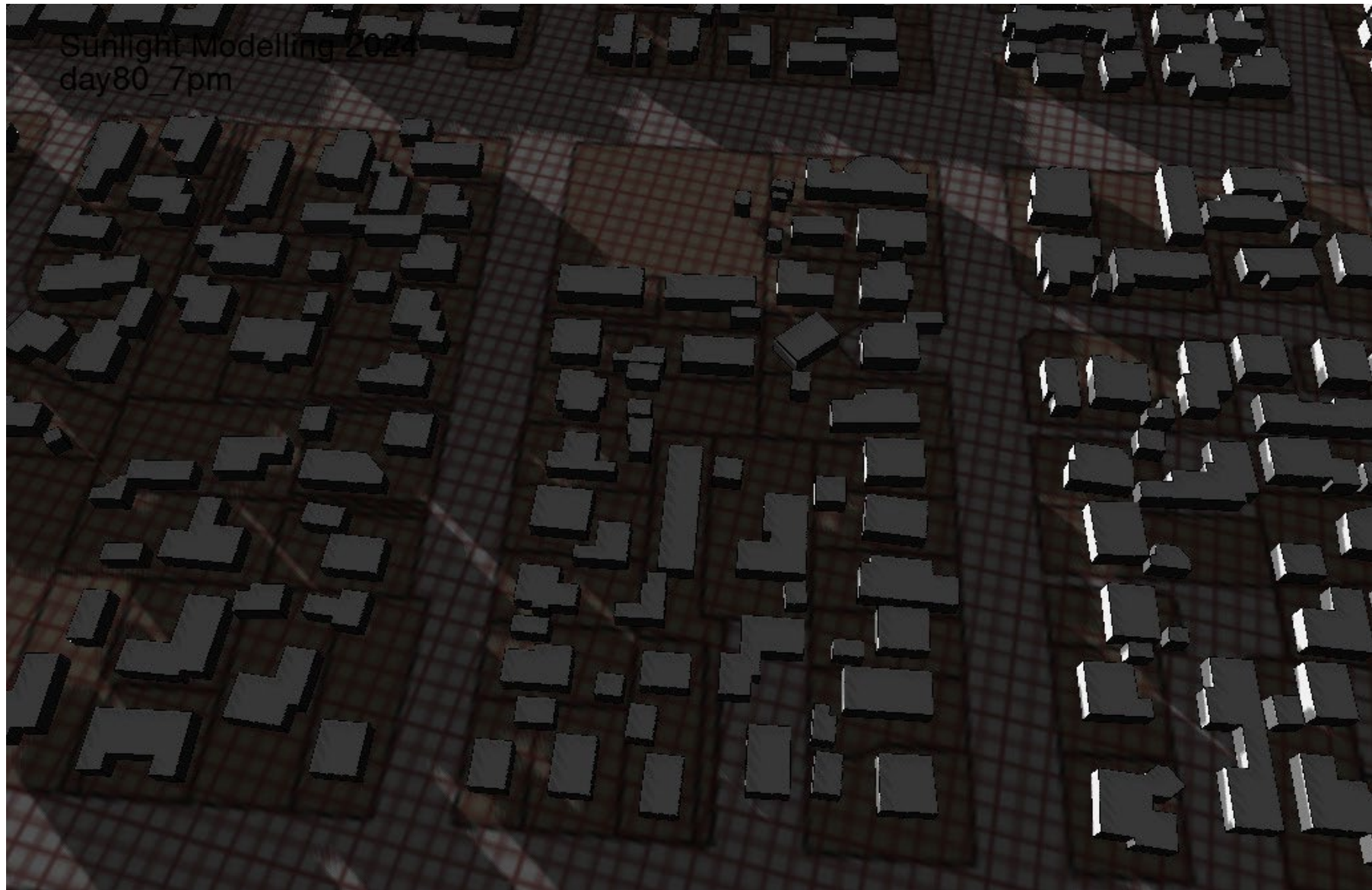


Sunlight Modelling 2024  
day80\_5pm





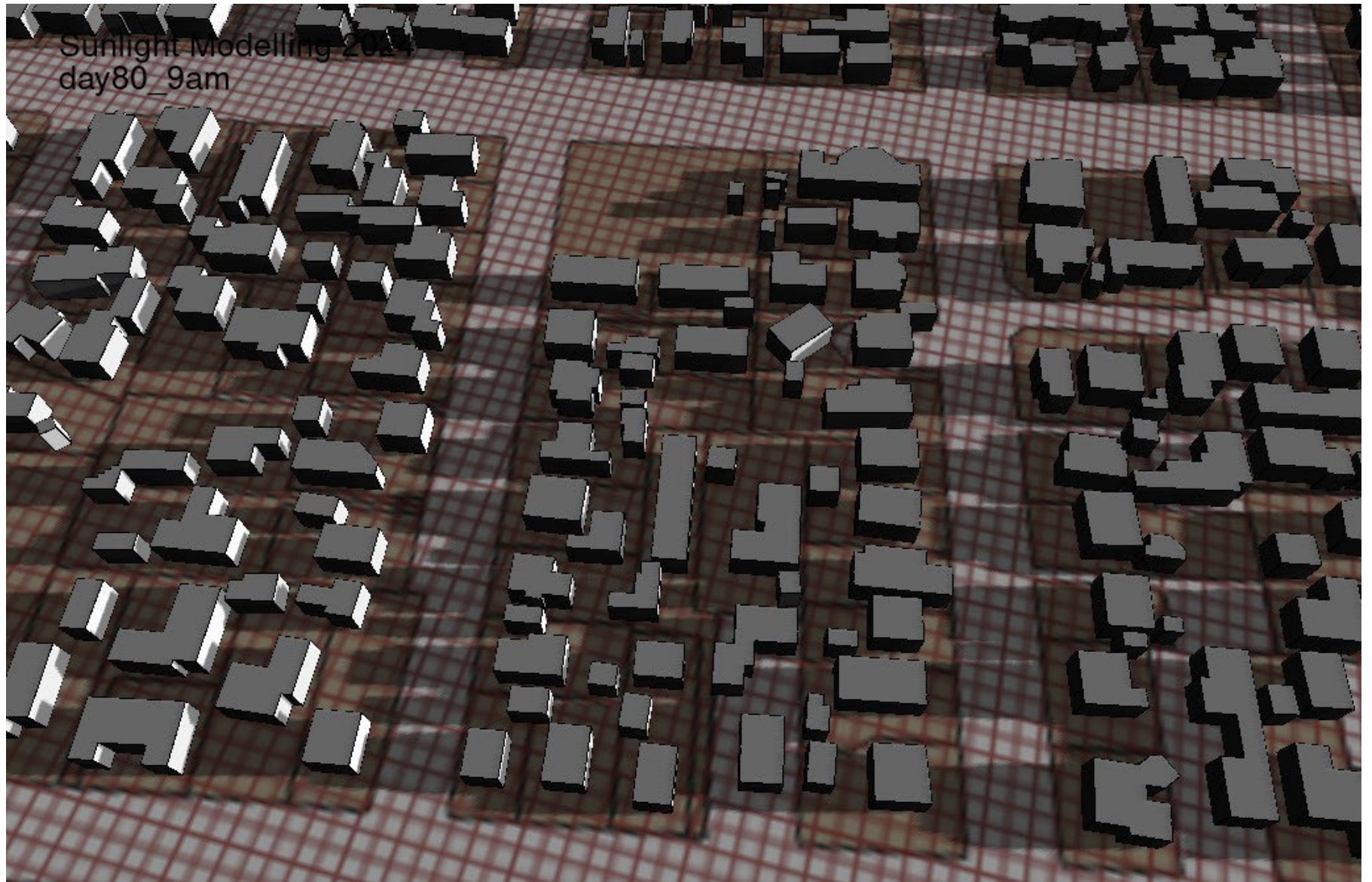
Sunlight Modelling 2024  
day80\_7pm



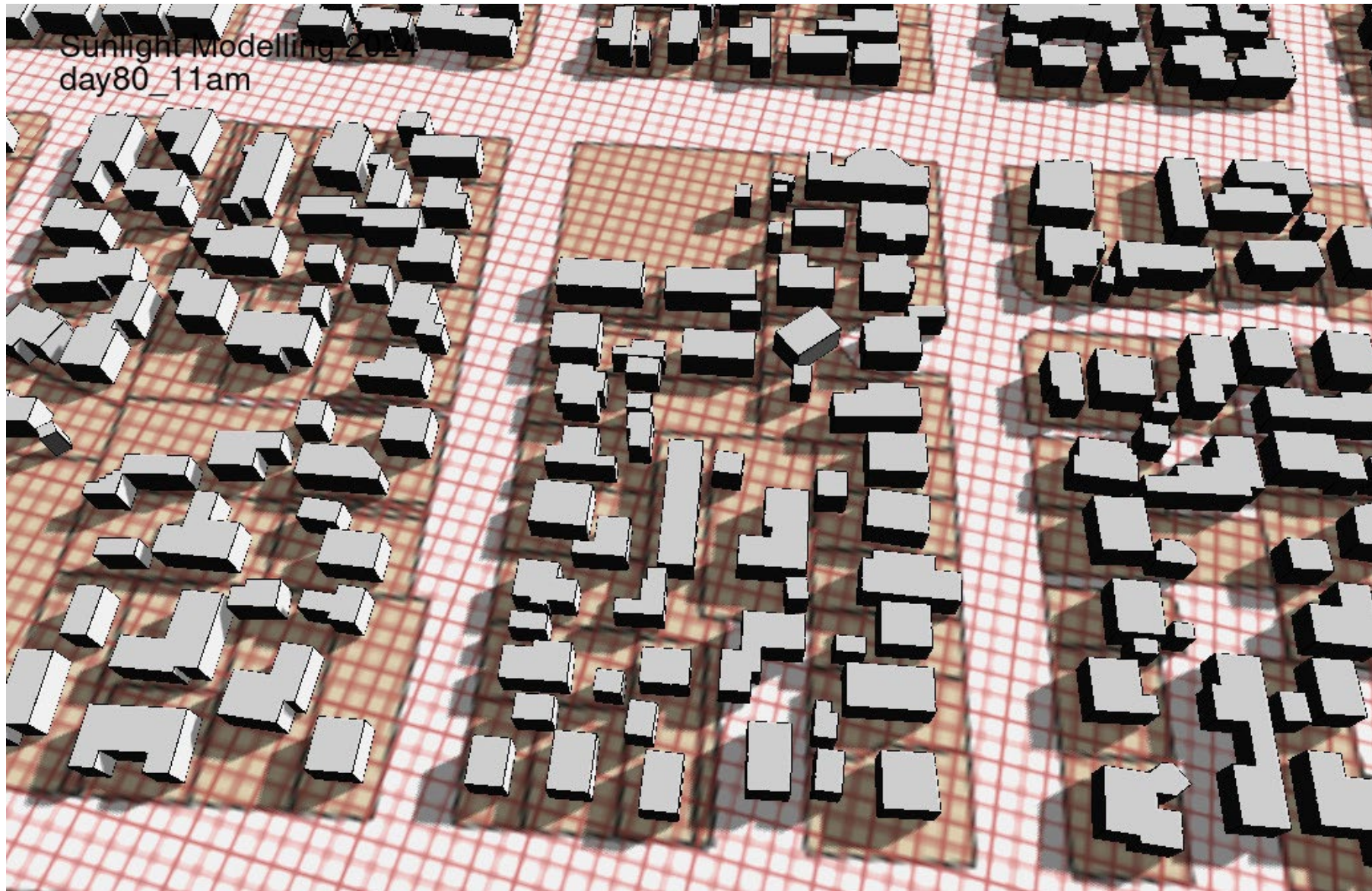
Autumn Equinox (Day 80)

Two storey building heights (8m)

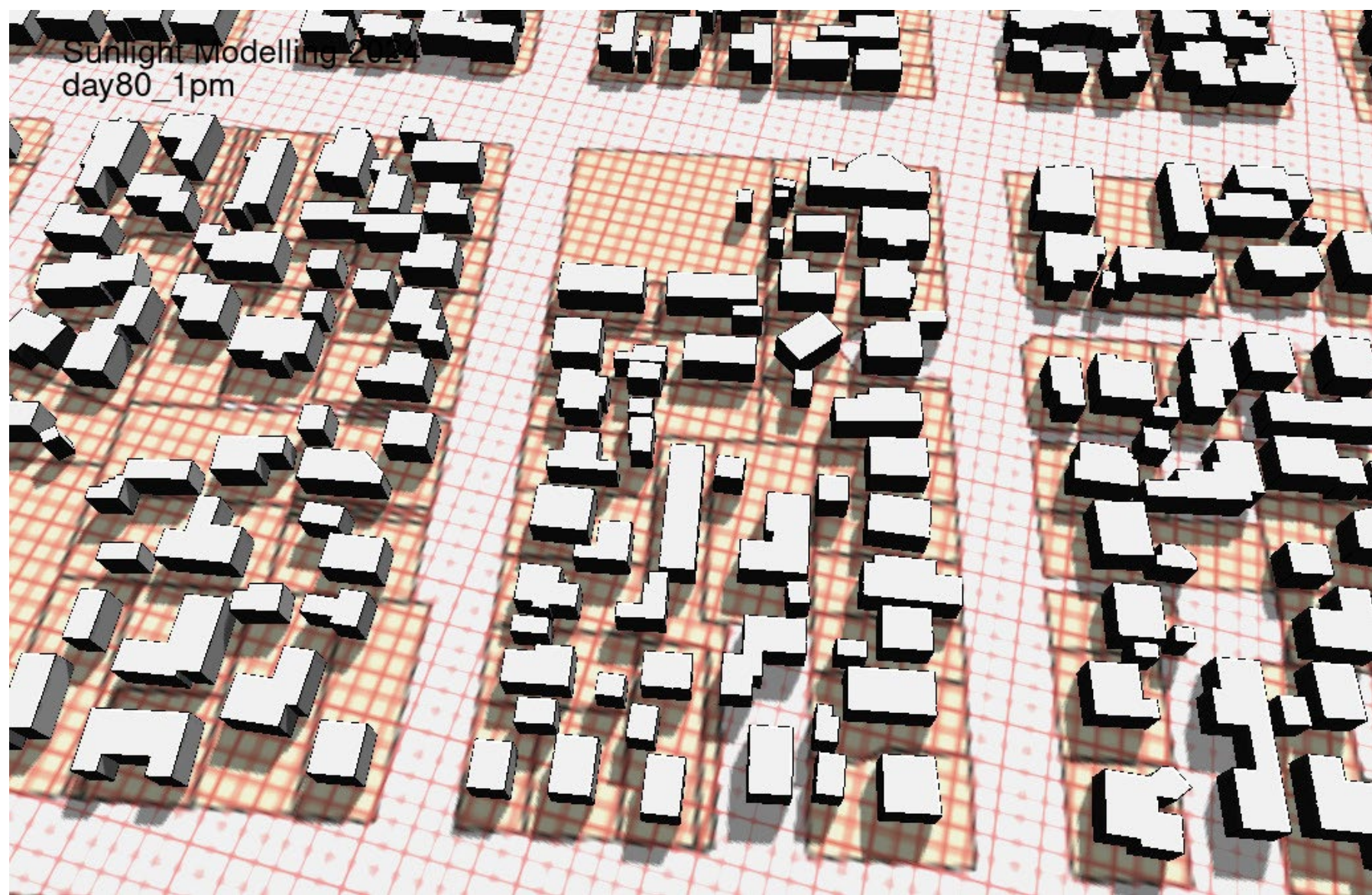
Sunlight Modelling 2024  
day80\_9am



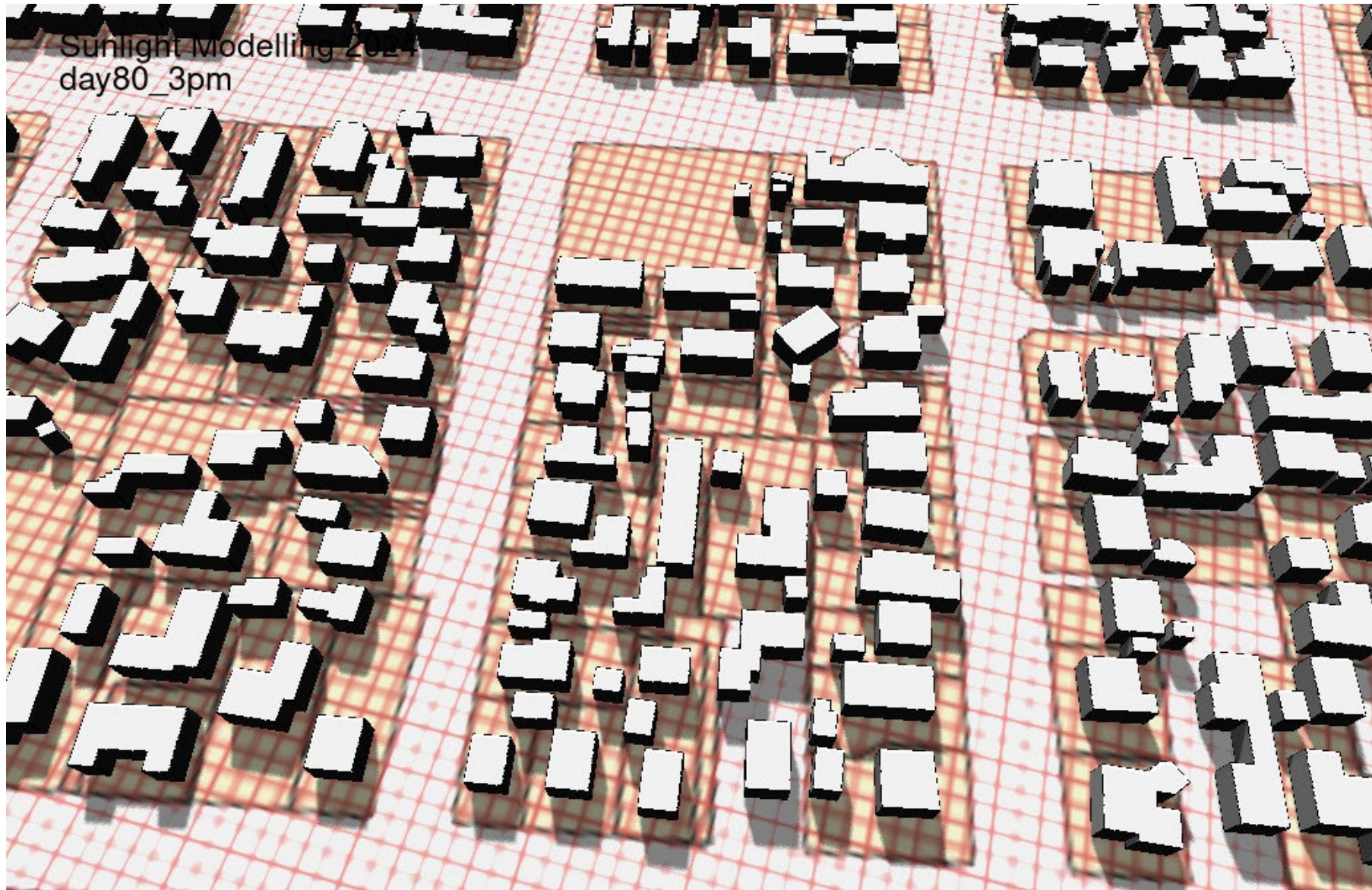
Sunlight Modelling 2021  
day80\_11am



Sunlight modelling 2024  
day80\_1pm



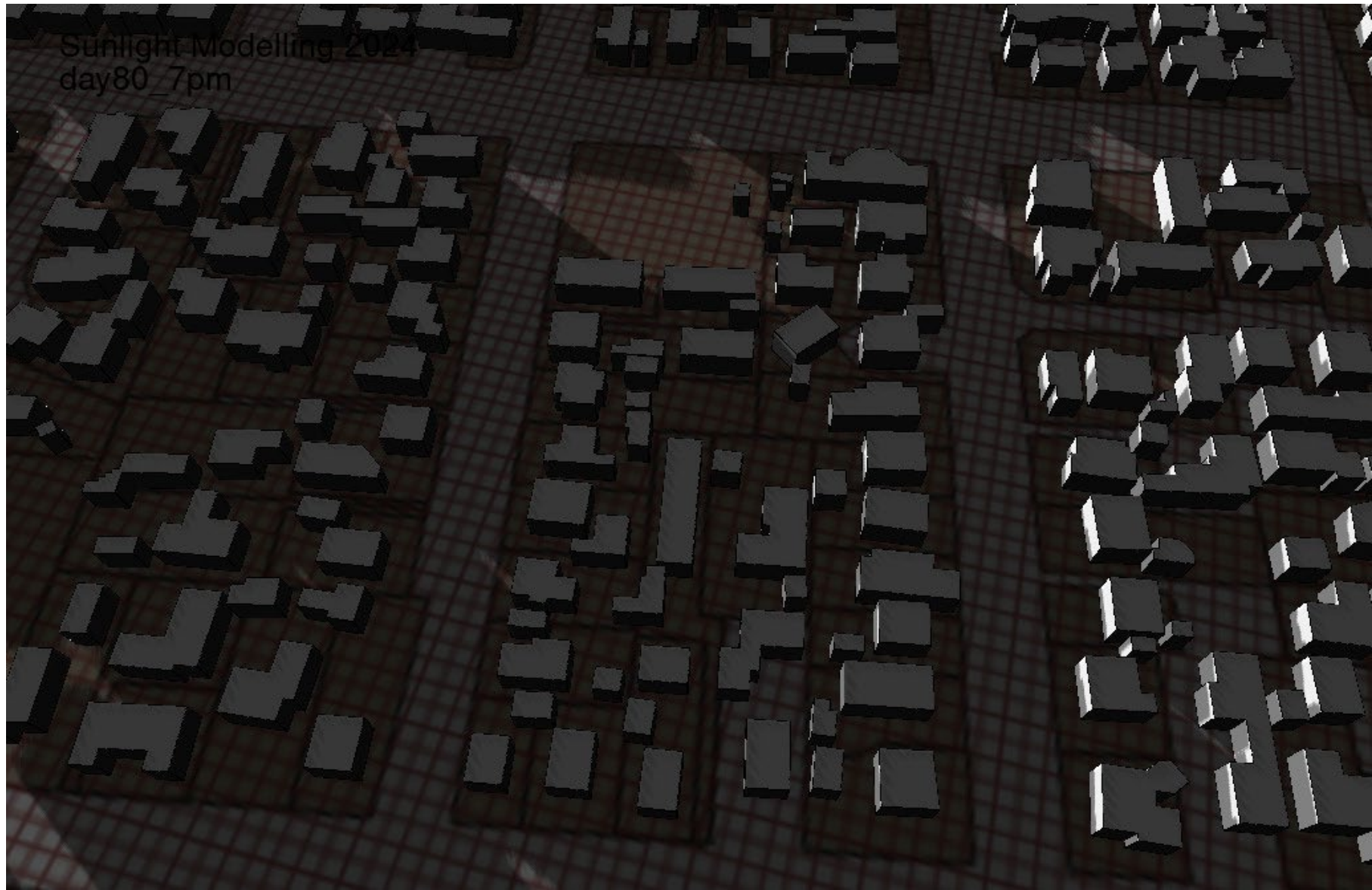
Sunlight Modelling 2024  
day80\_3pm



Sunlight Modelling 2024  
day80\_5pm



Sunlight Modelling 2024  
day80\_7pm

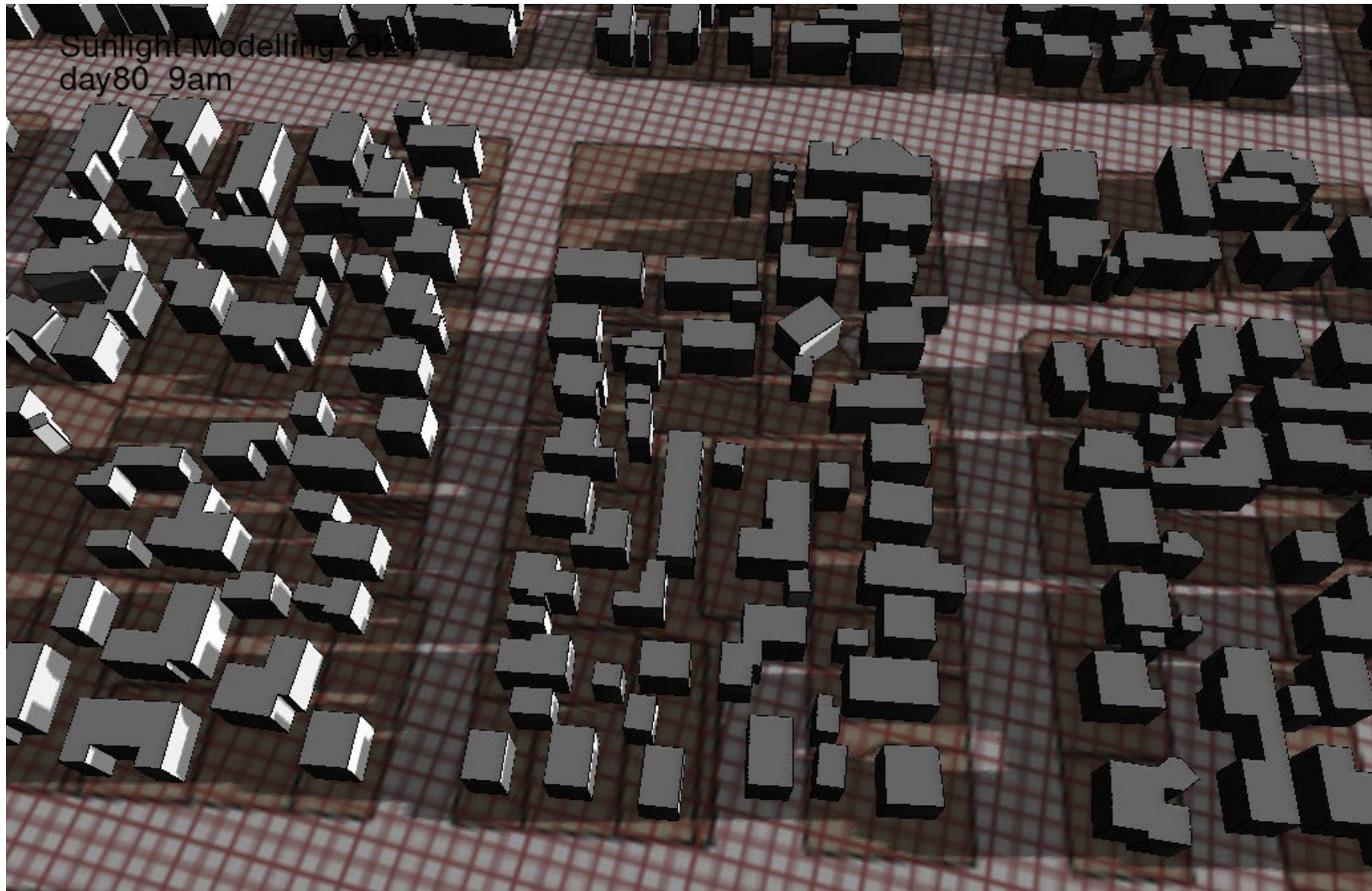




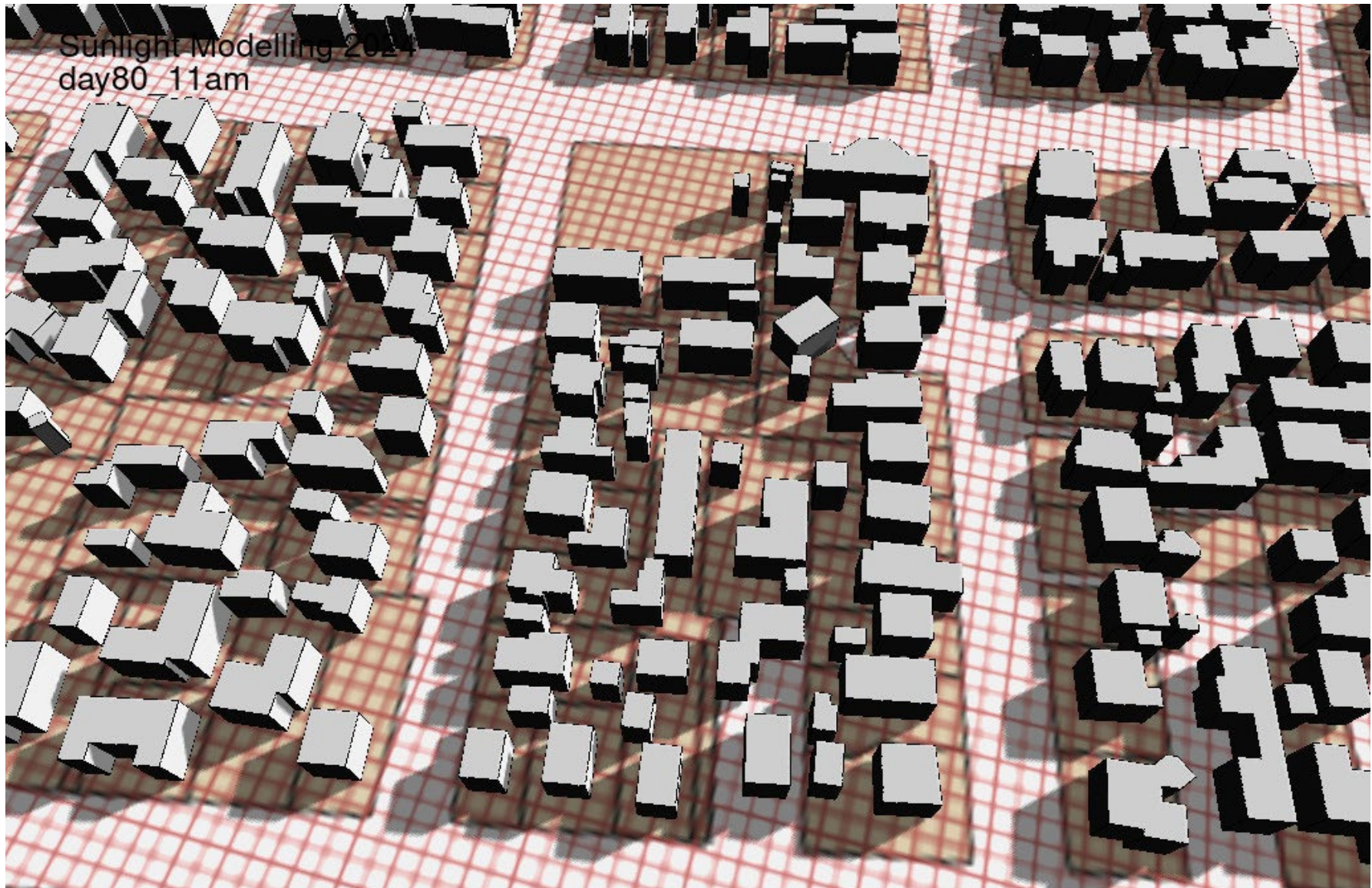
Autumn Equinox (Day 80)

Three storey building heights (12m)

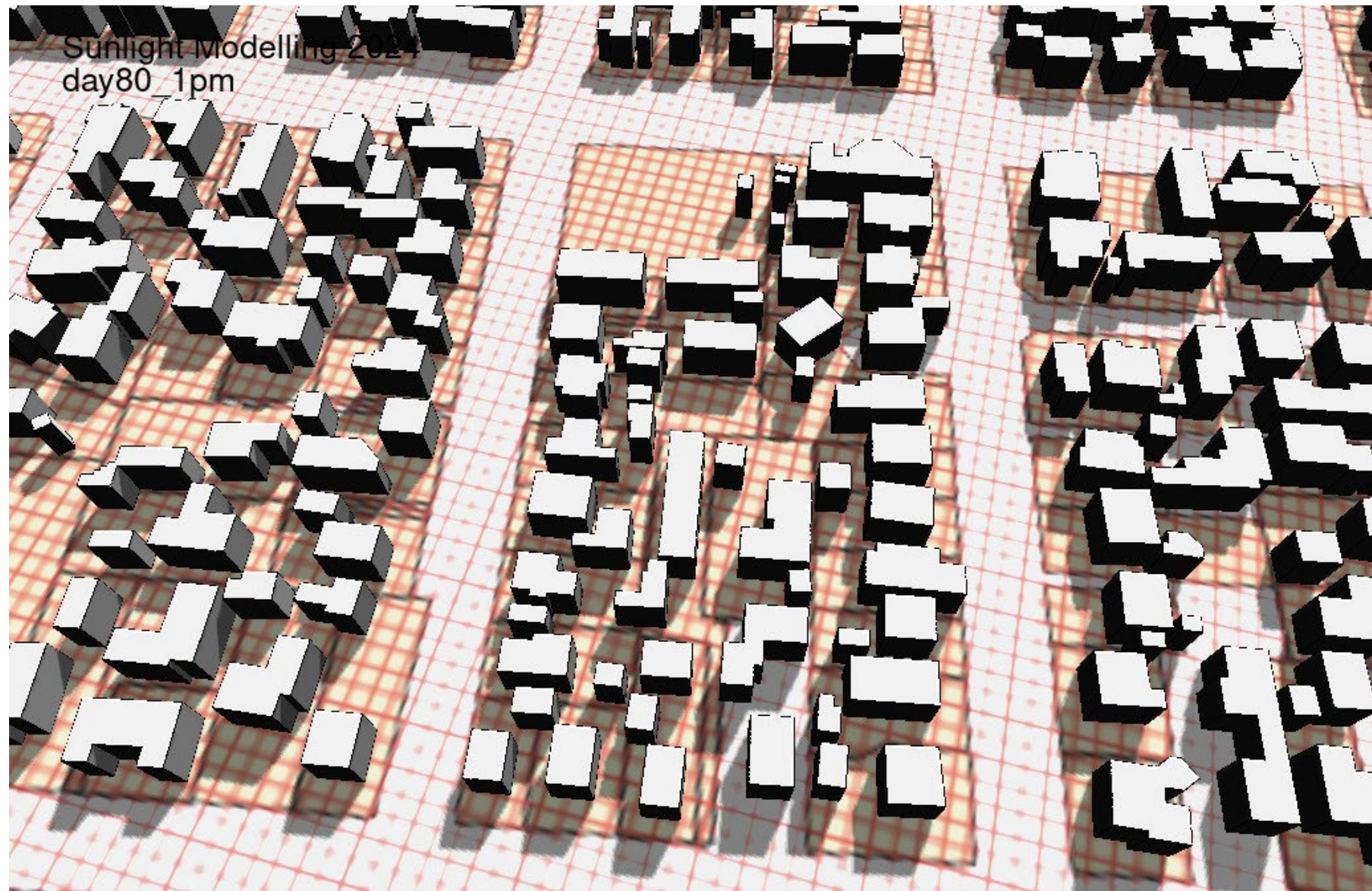
Sunlight Modelling 2024  
day80\_9am



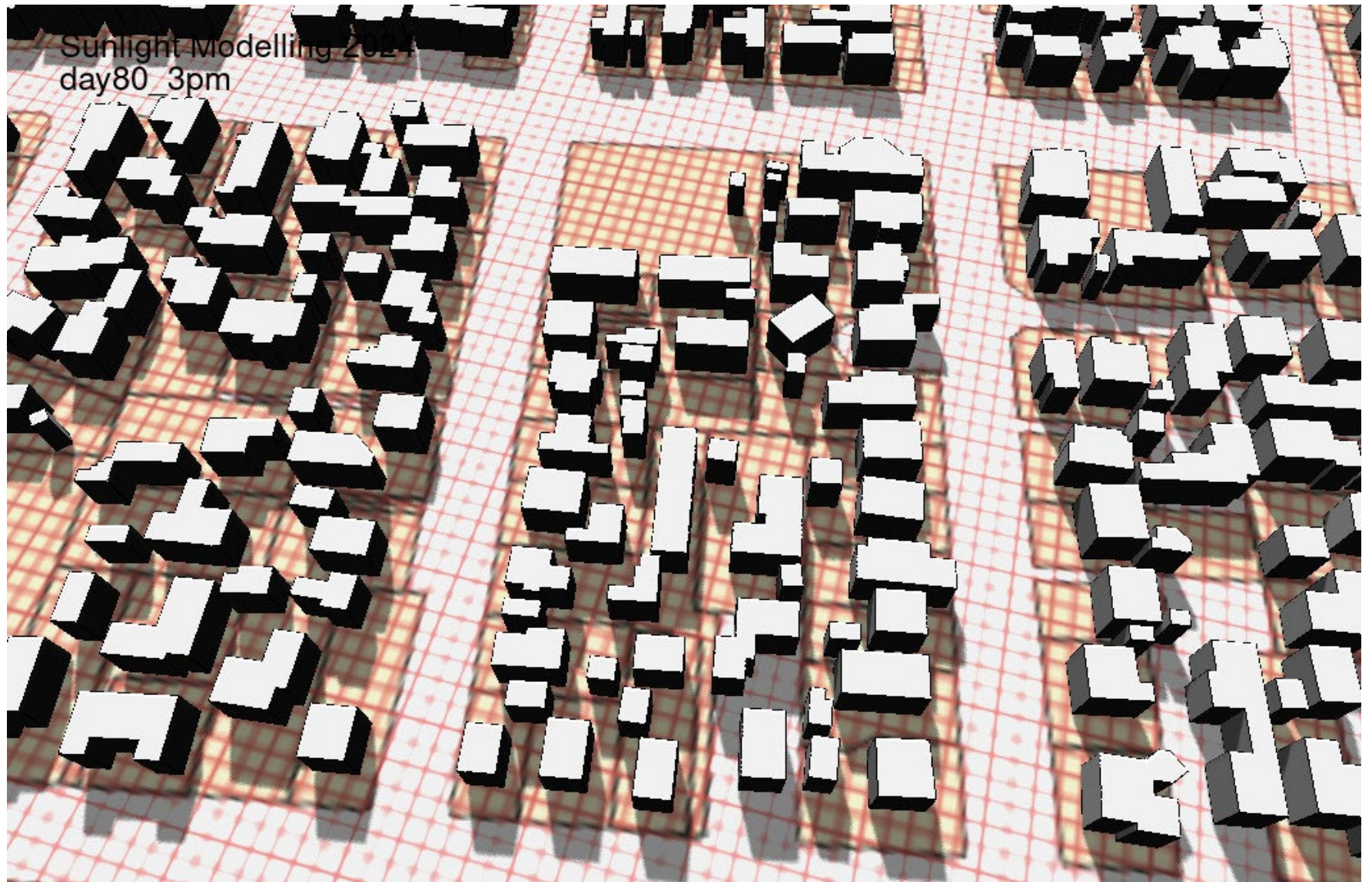
Sunlight Modelling 2021  
day80 11am



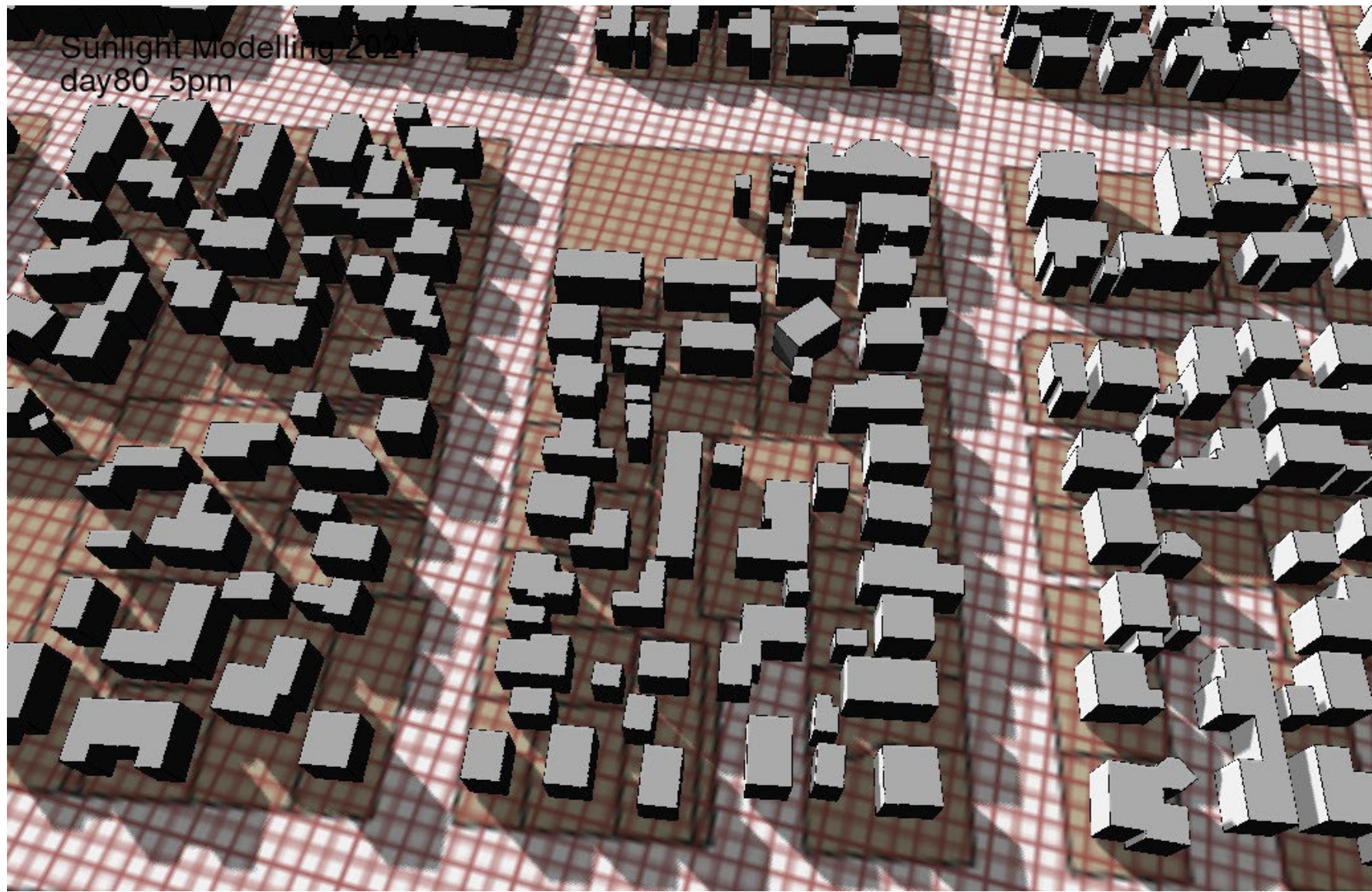
Sunlight Modelling 2024  
day80 1pm



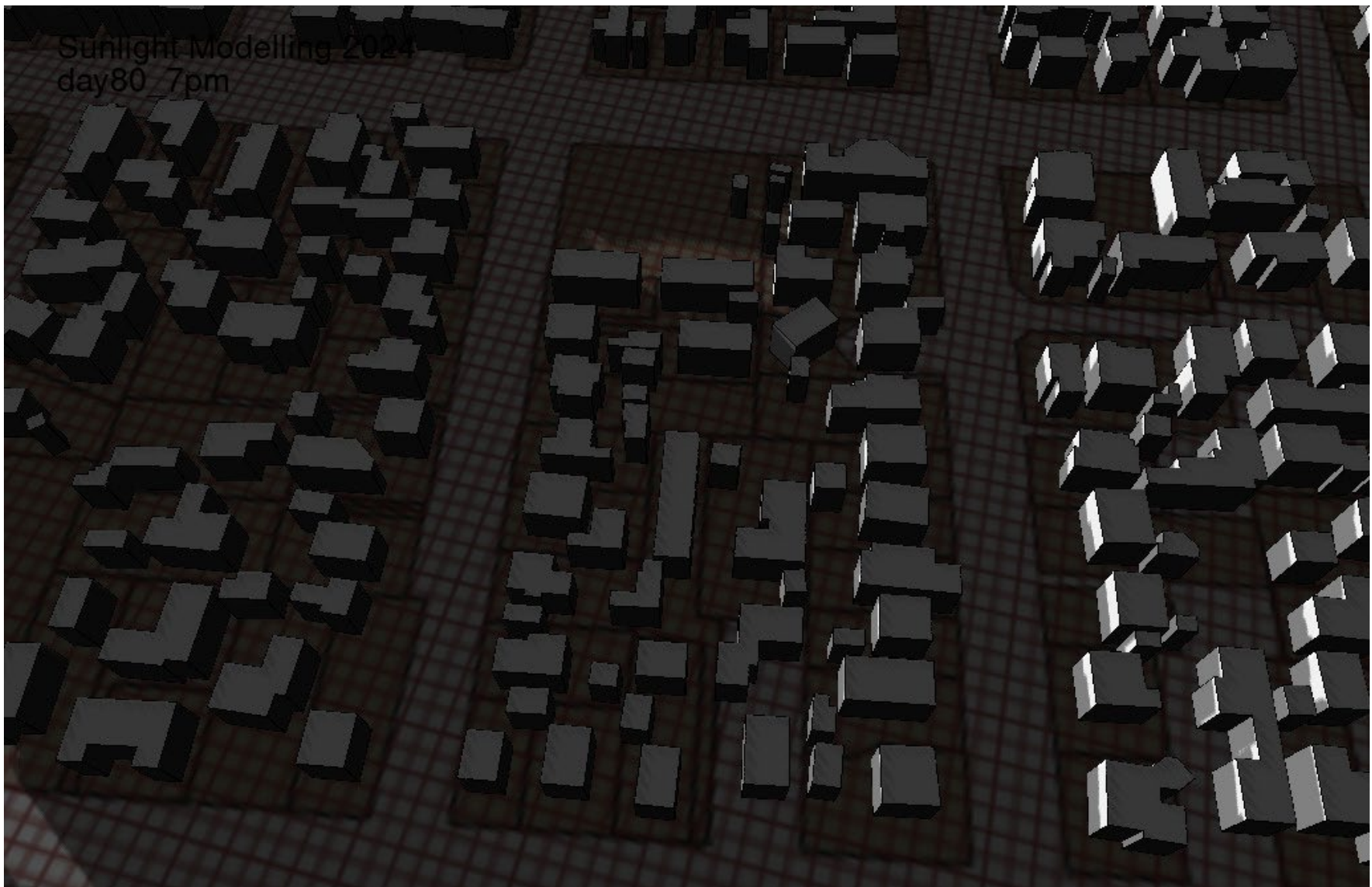
Sunlight Modelling 2024  
day80\_3pm



Sunlight Modelling 2024  
day80\_5pm



Sunlight Modelling 2024  
day80 7pm

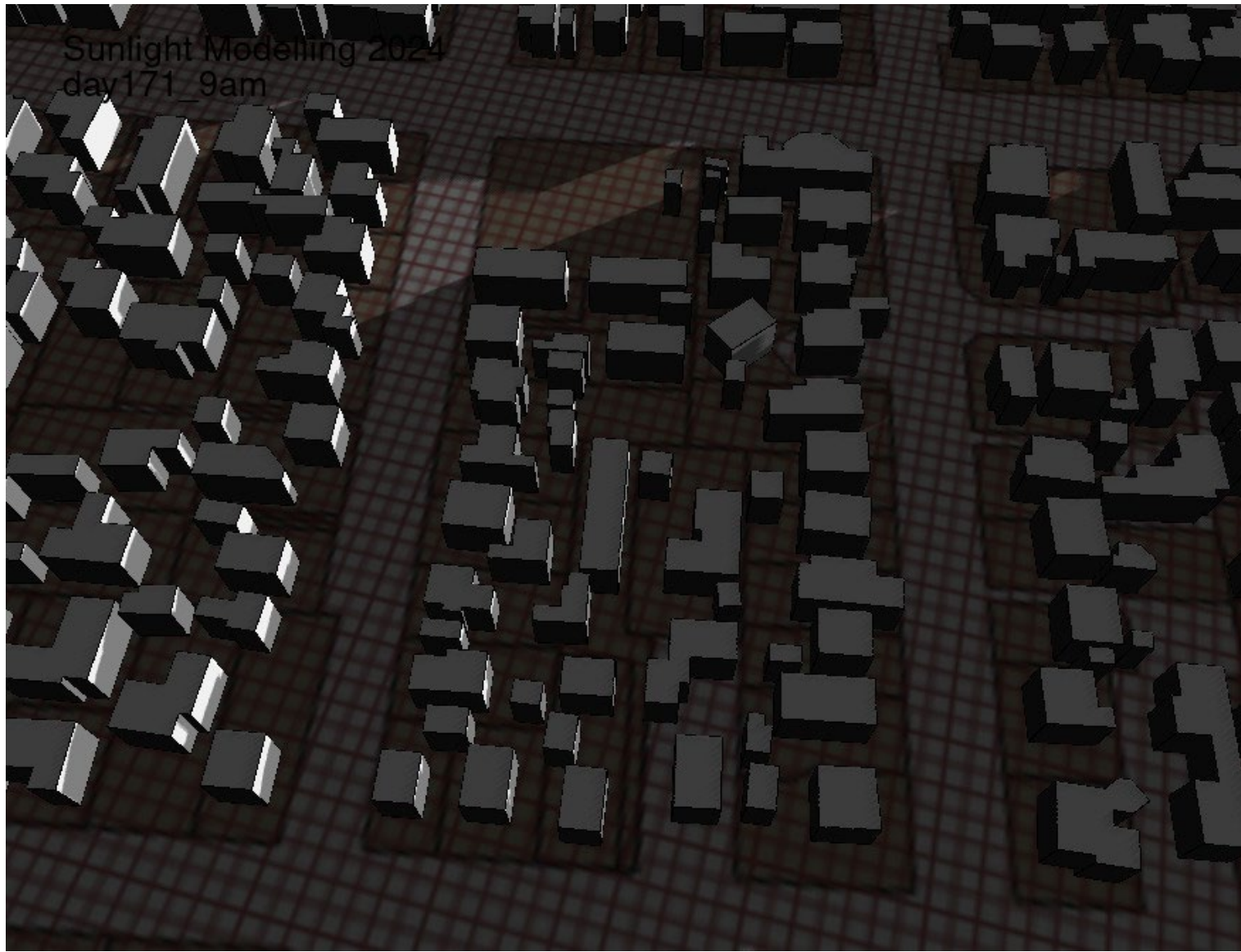


Winter Solstice (Day 171)

Existing building heights (avg 5m)



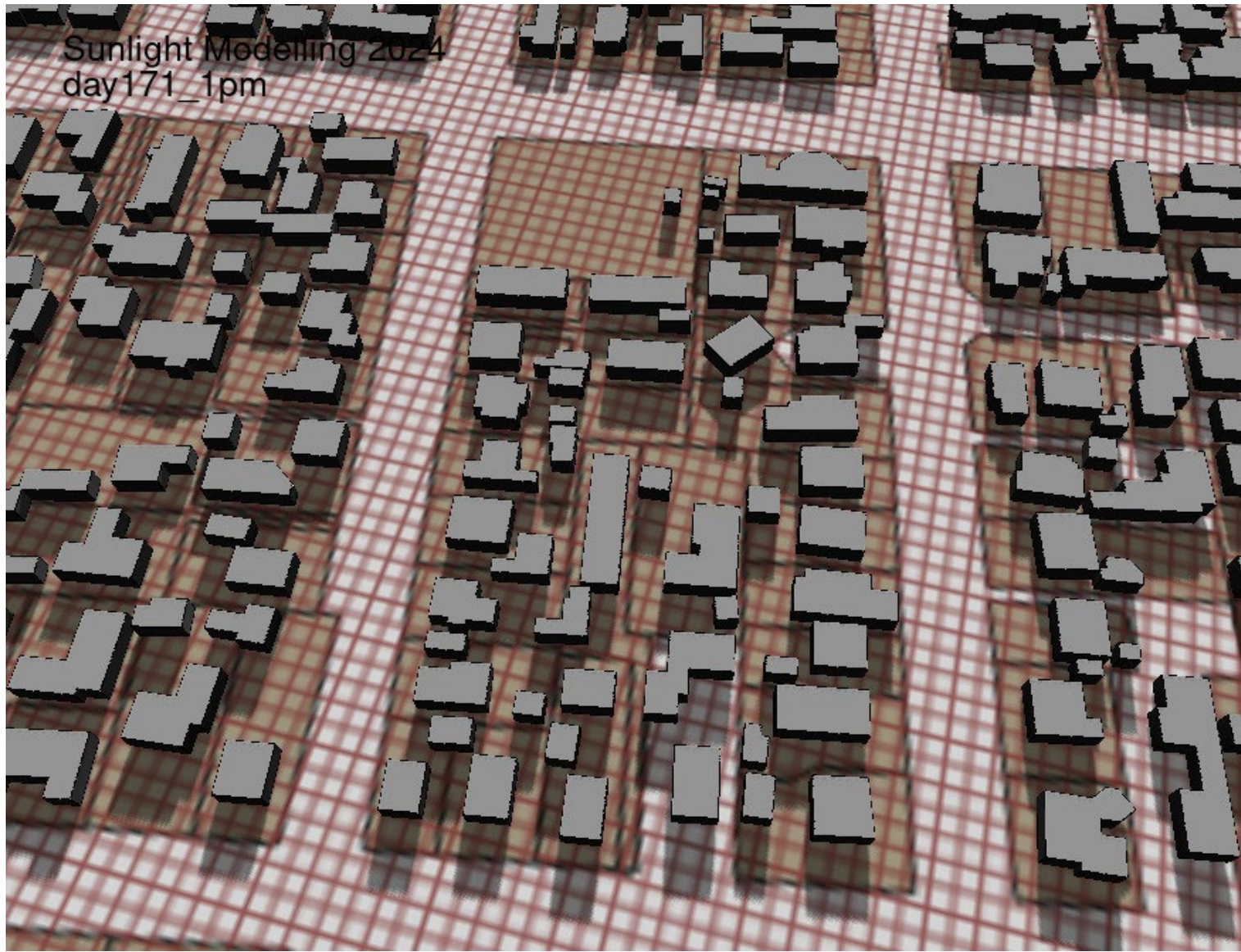
Sunlight Modelling 2024  
day171\_9am



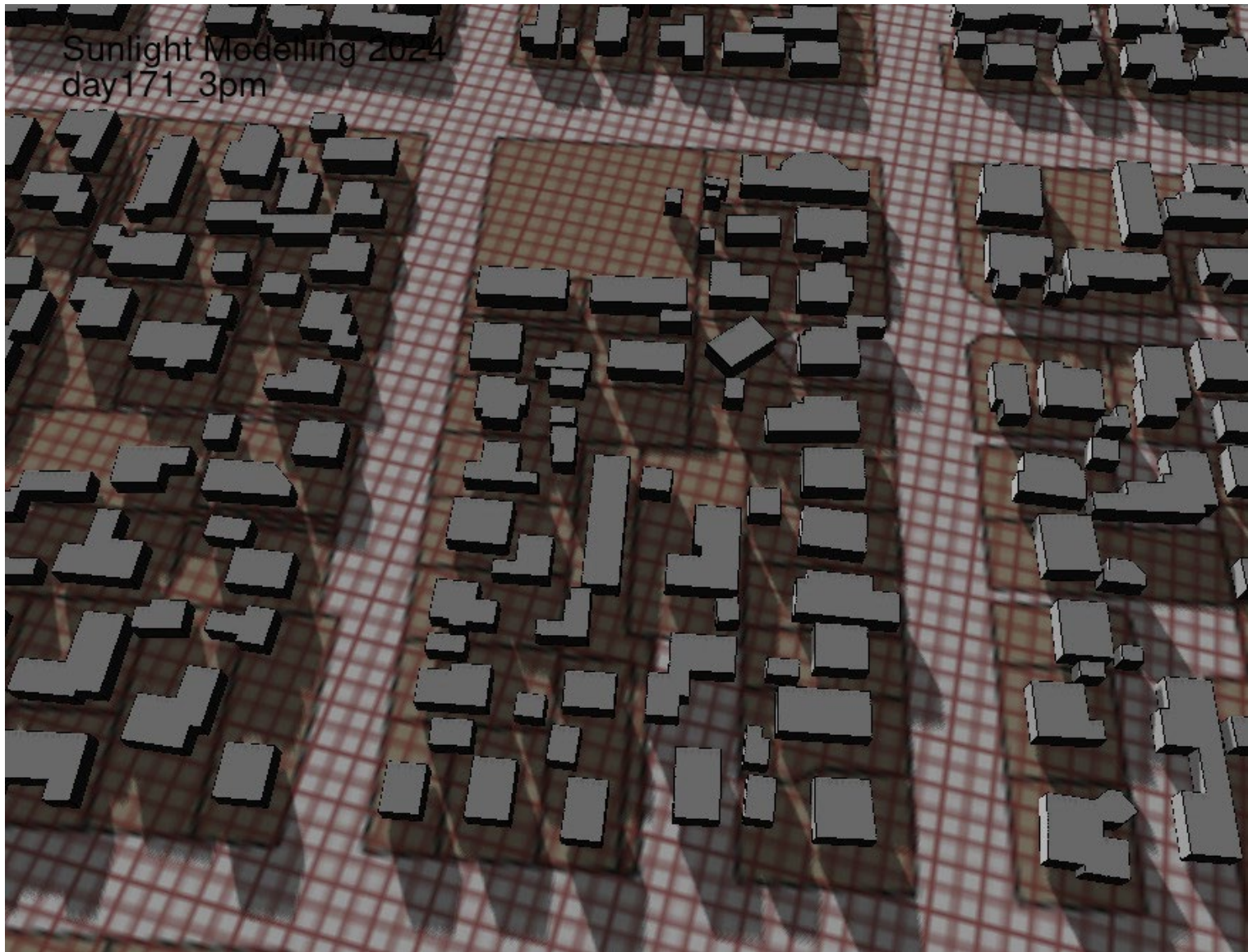
Sunlight Modelling 2024  
day171\_11am



Sunlight Modelling 2024  
day171\_1pm



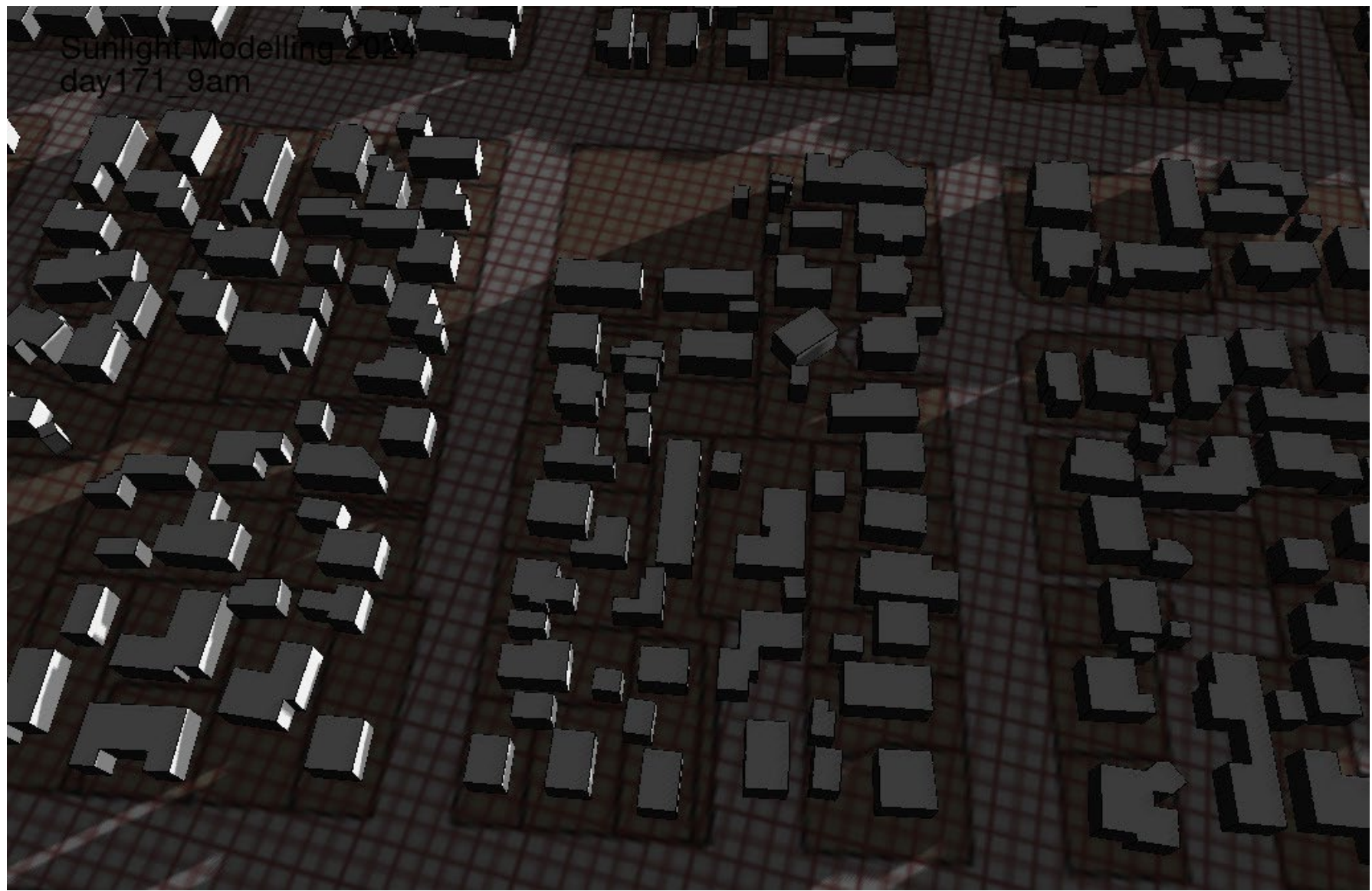
Sunlight Modelling 2024  
day171\_3pm



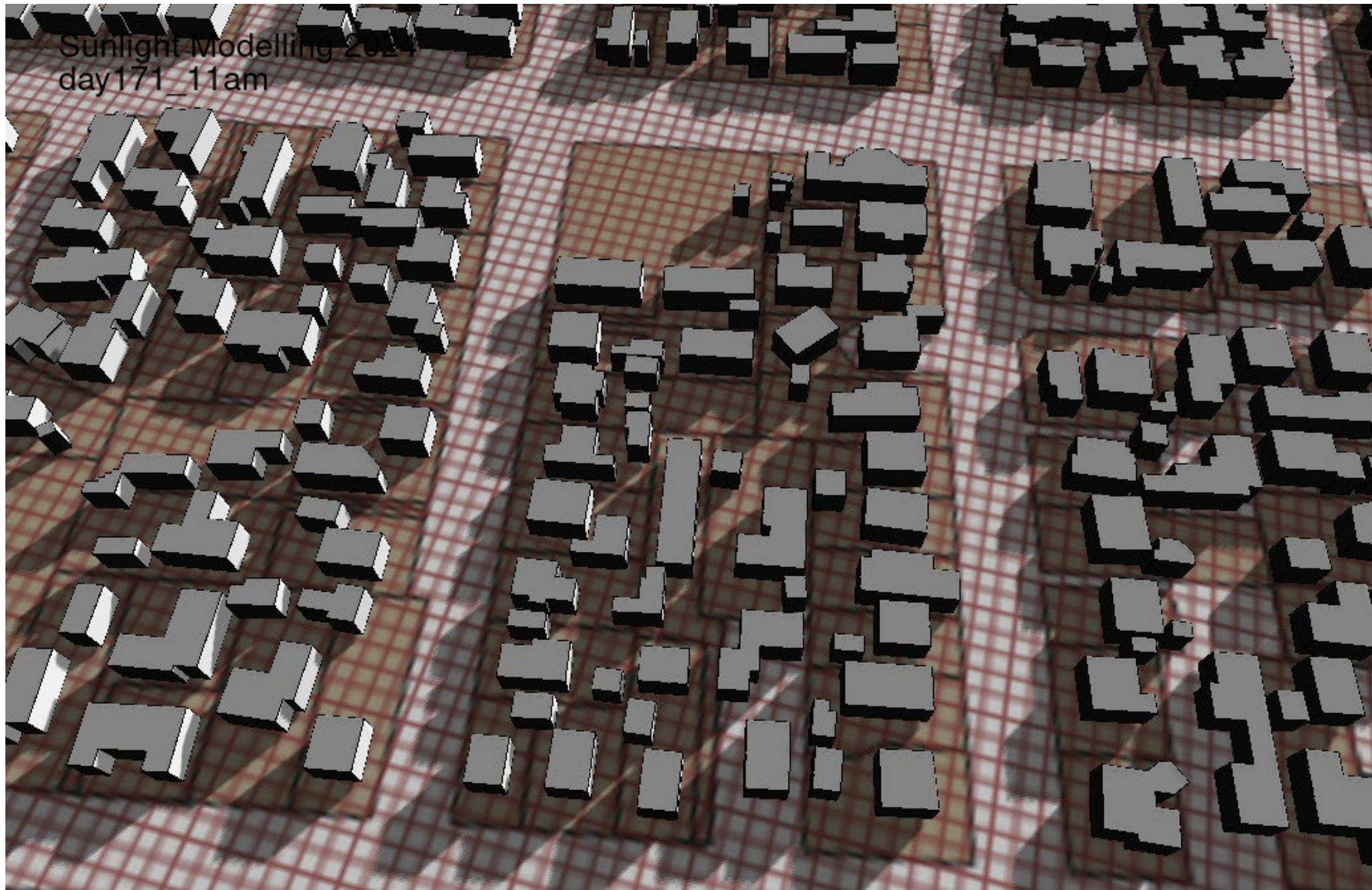
Winter Solstice (Day 171)

Two storey building heights (8m)

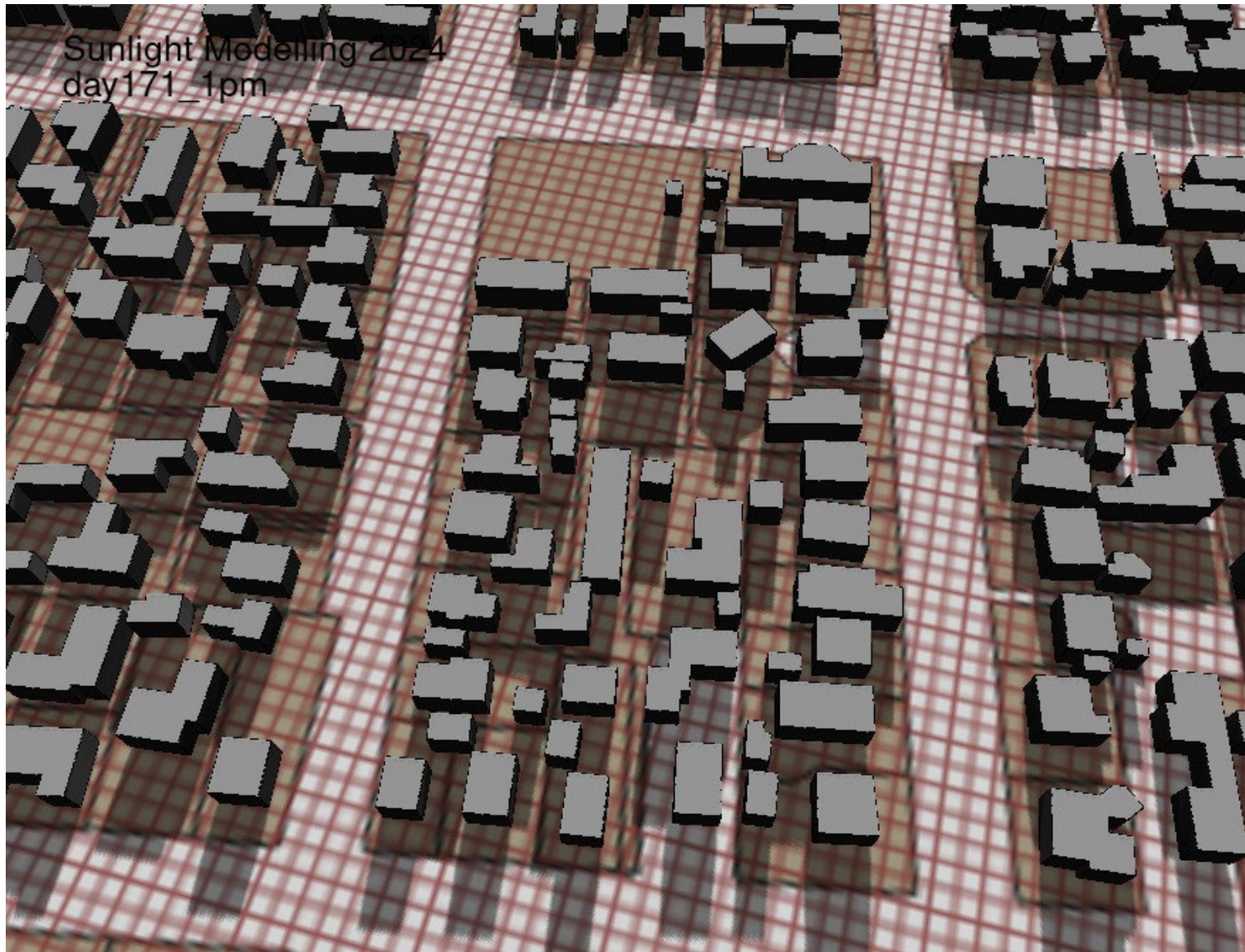
Sunlight Modelling 2024  
day171 9am



Sunlight Modelling 2021  
day171\_11am

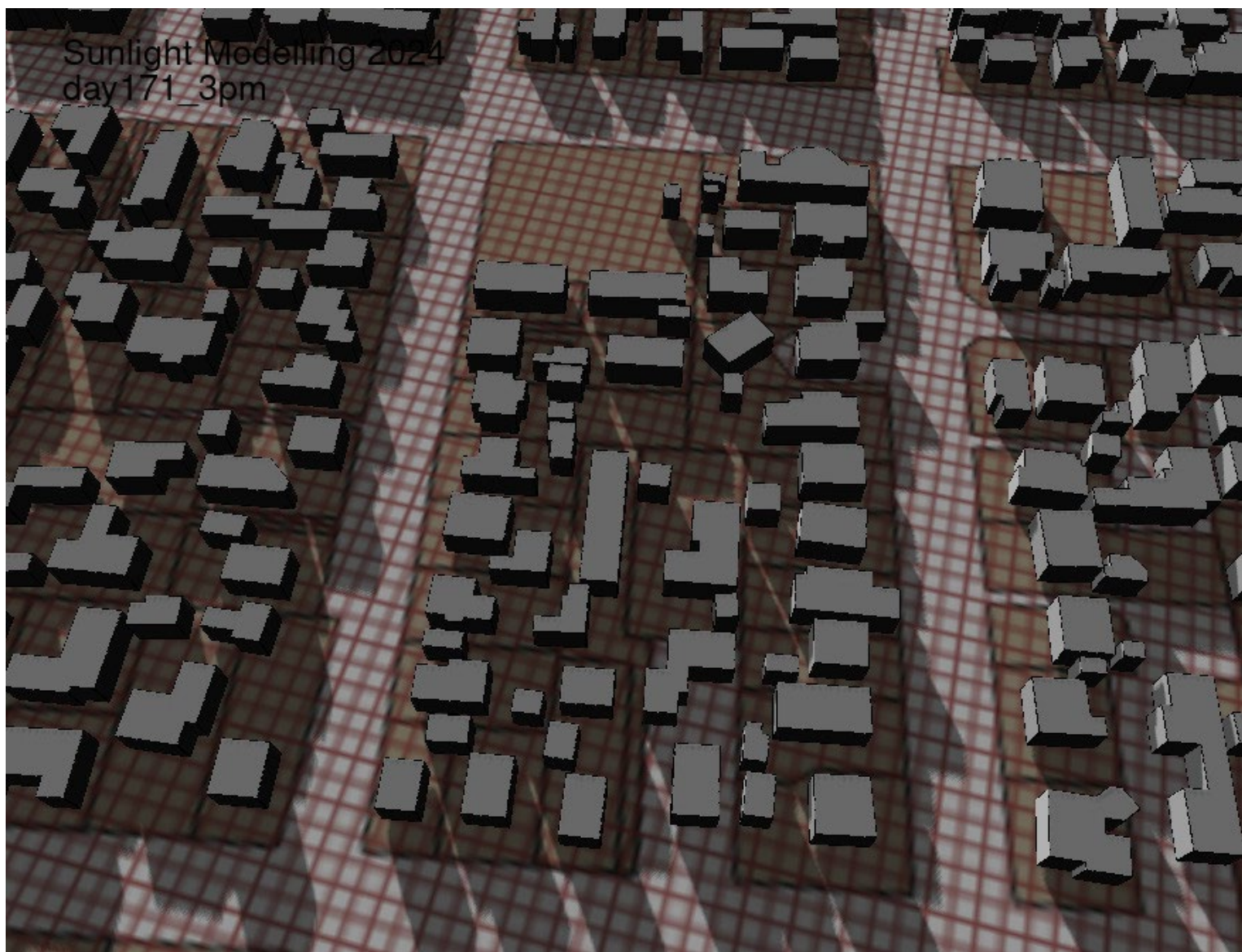


Sunlight Modelling 2024  
day171\_1pm





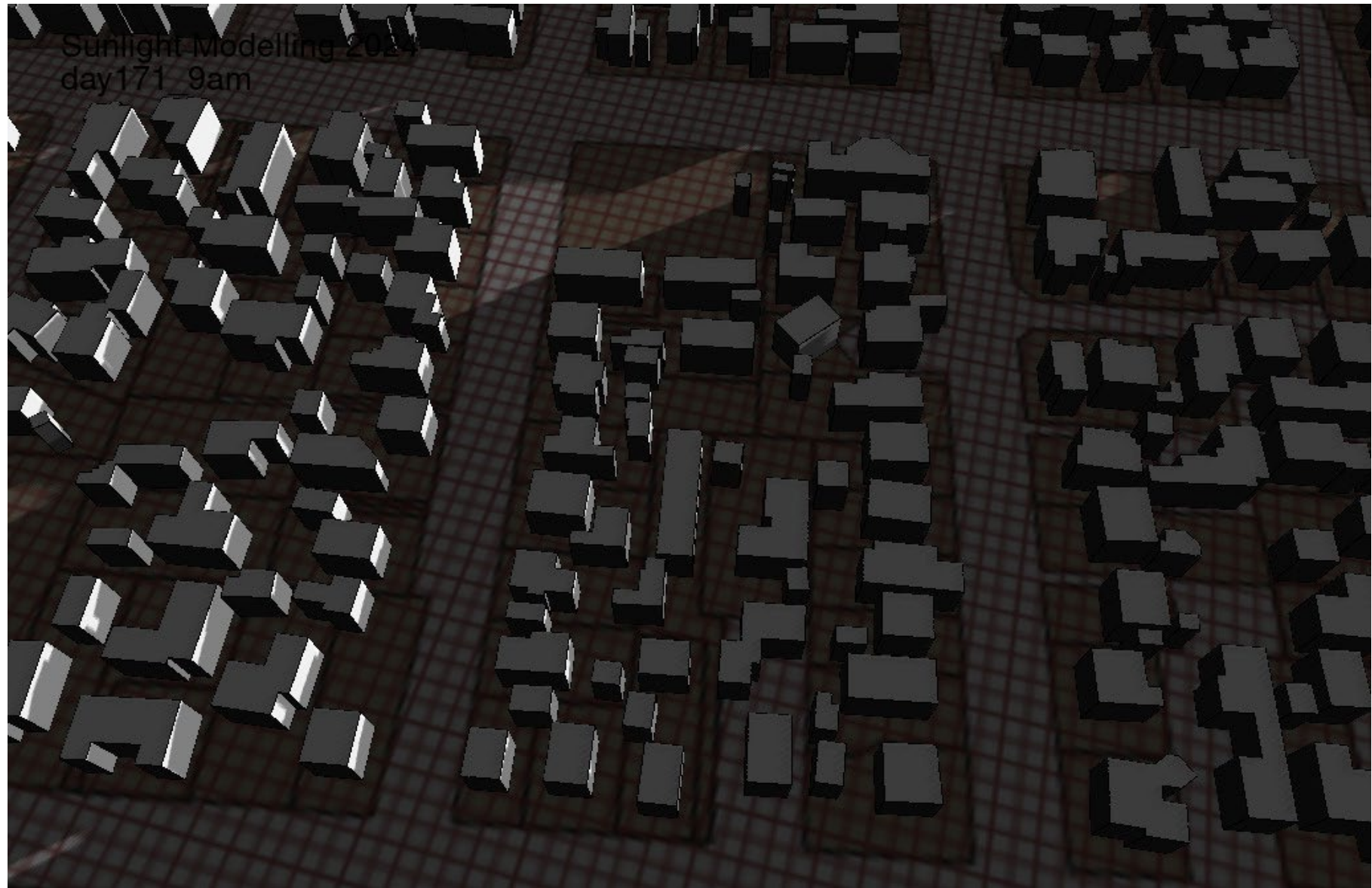
Sunlight Modelling 2024  
day171\_3pm



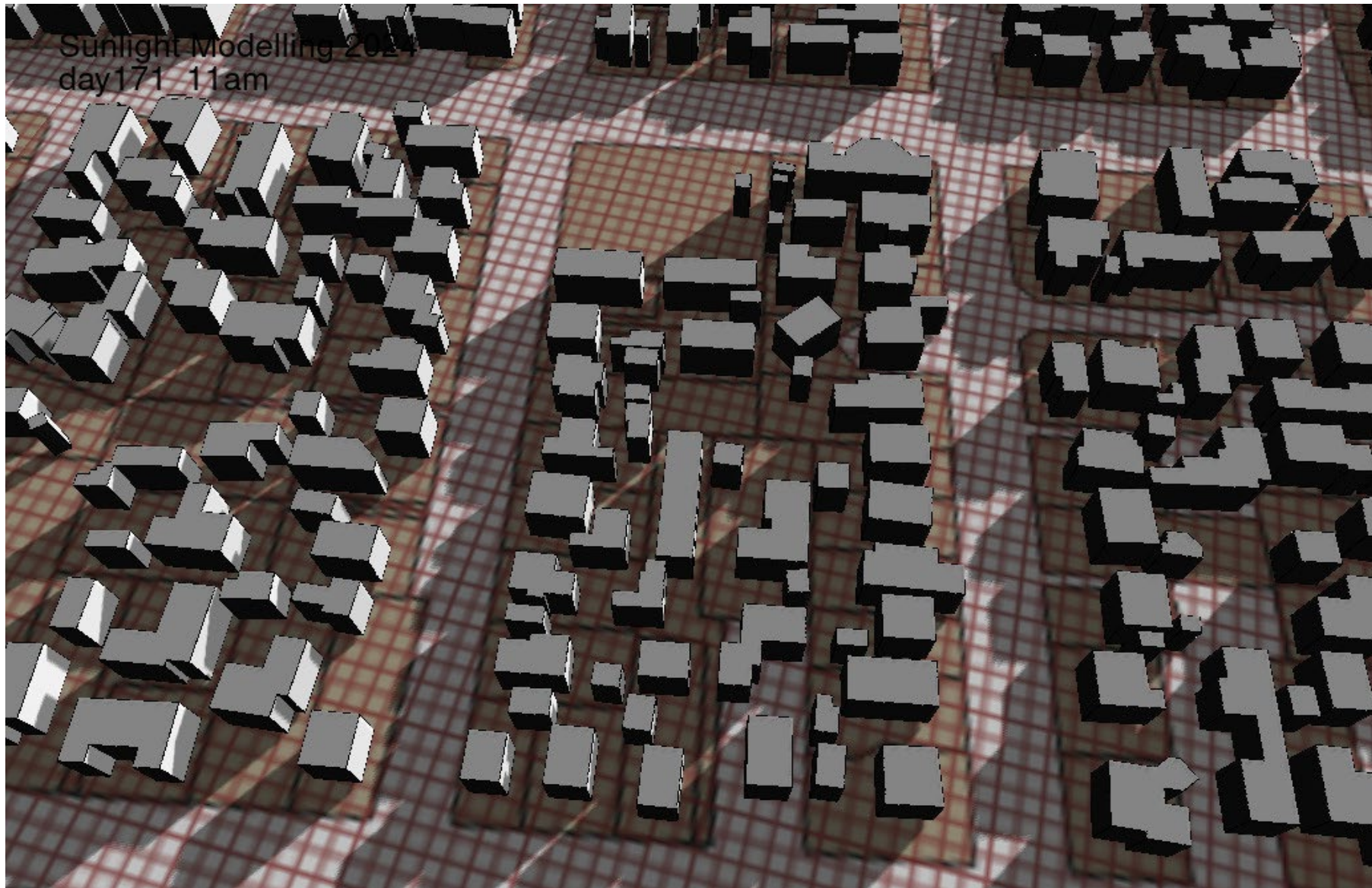
Winter Solstice (Day 171)

Three storey building heights (12m)

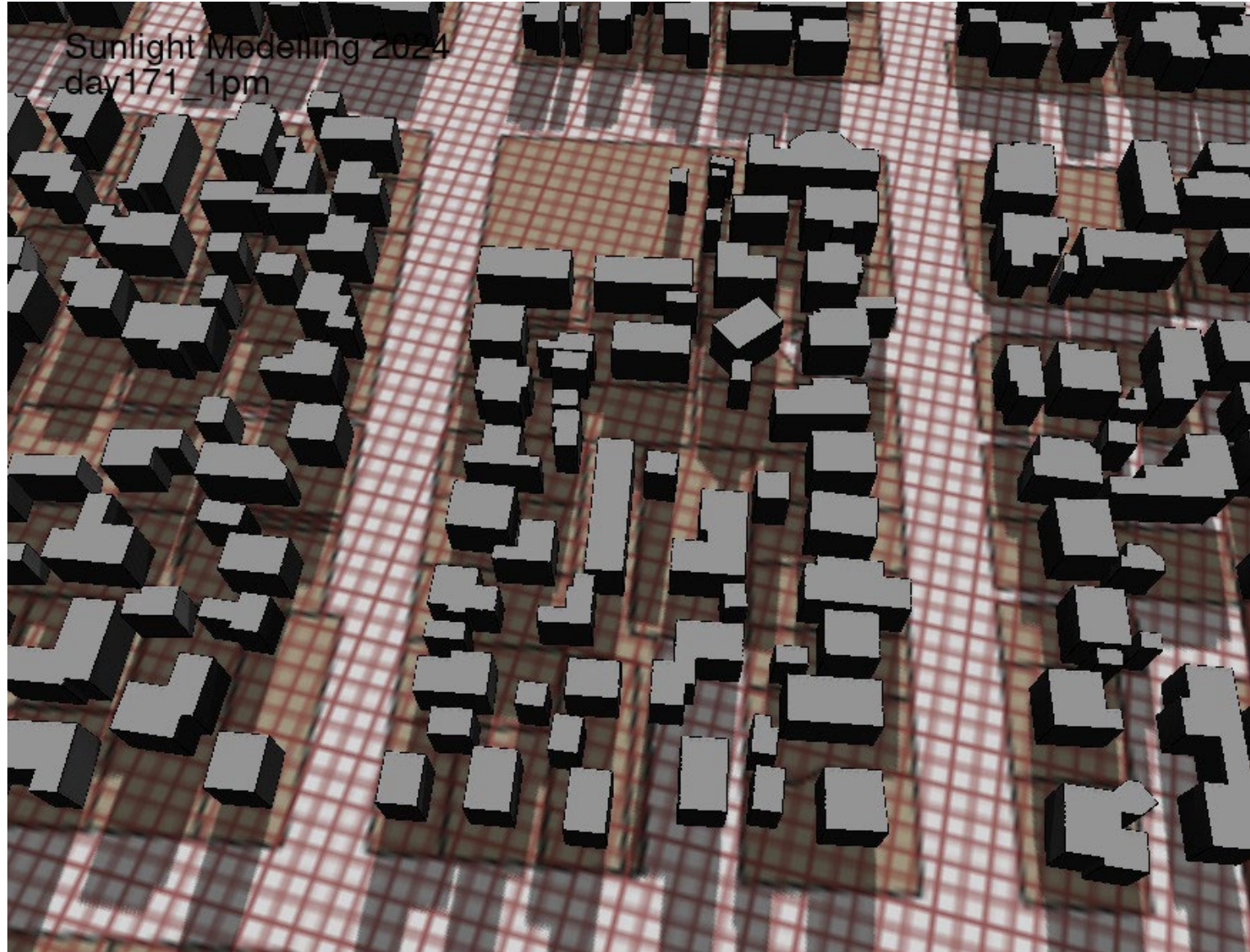
Sunlight Modelling 2024  
day171 9am



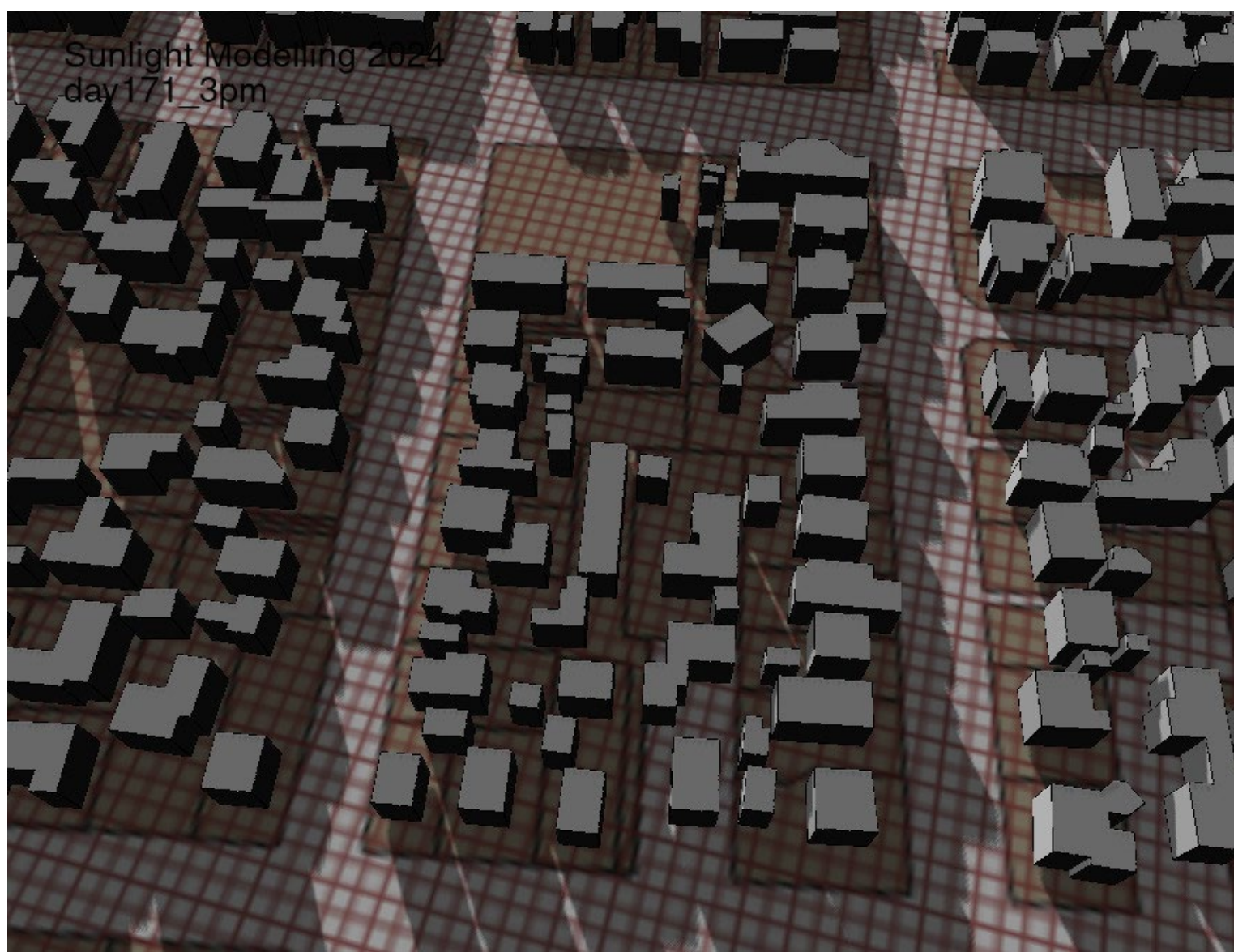
Sunlight modelling 2024  
day171 11am



Sunlight Modelling 2024  
day171\_1pm



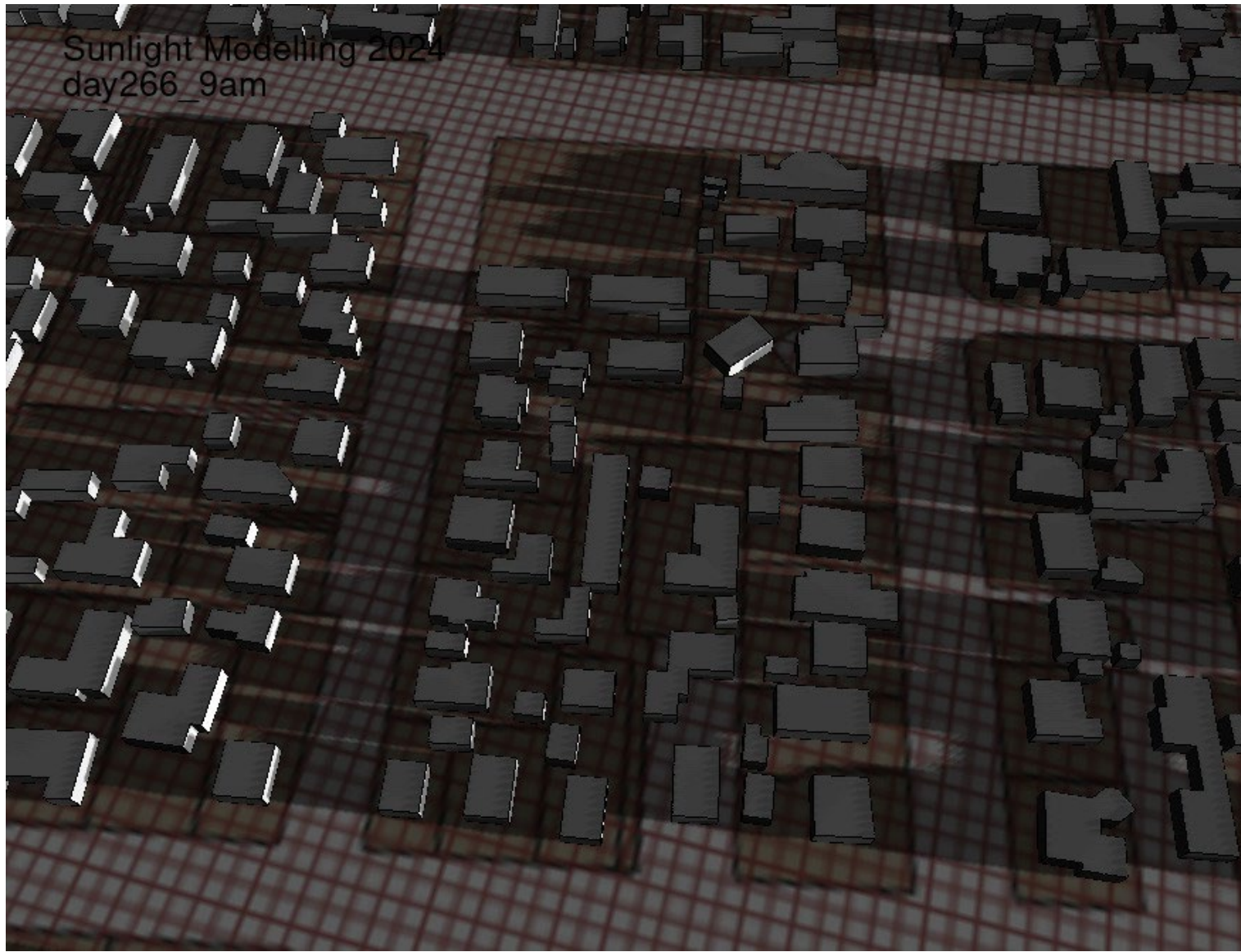
Sunlight Modelling 2024  
day171\_3pm



Spring Equinox (Day 266)

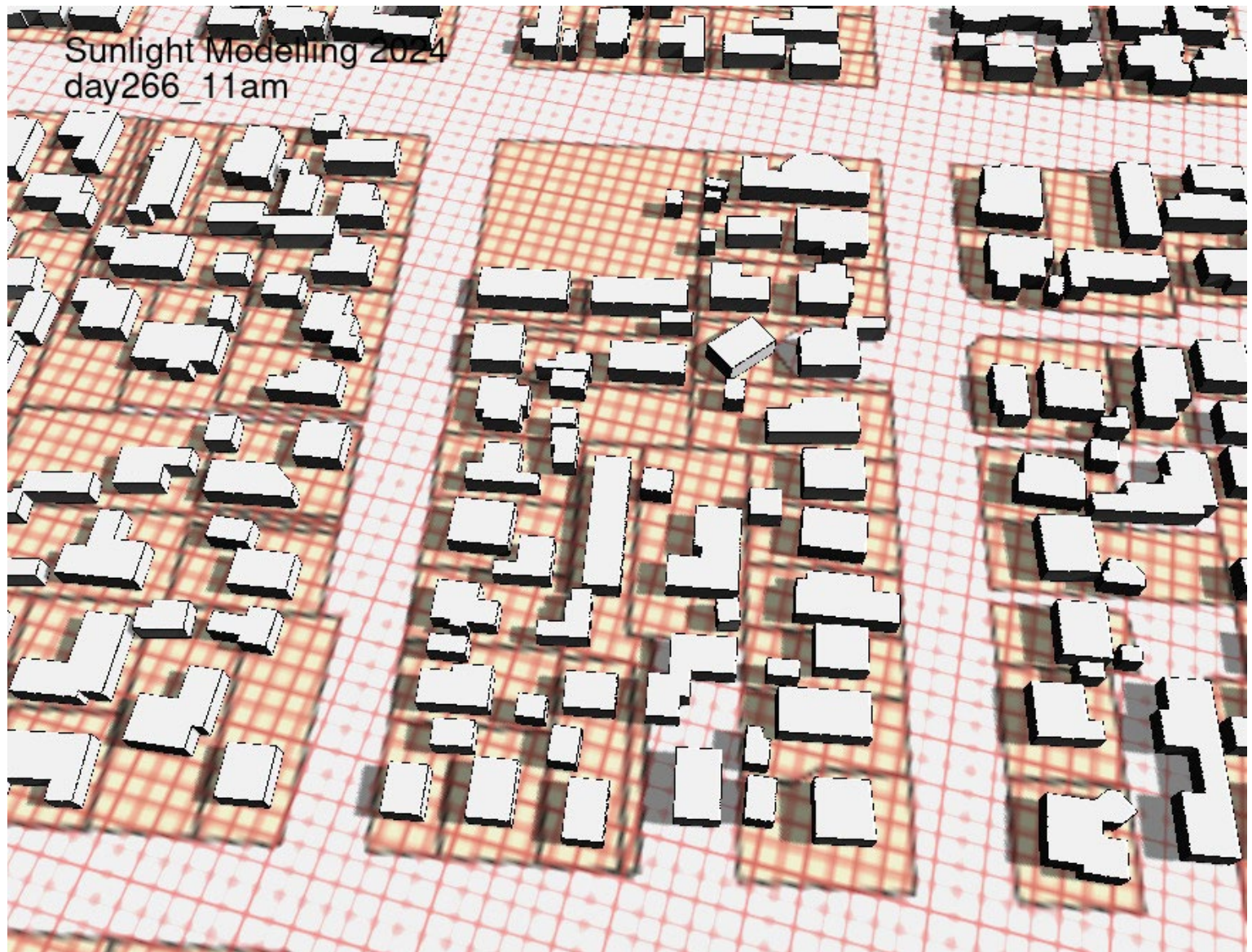
Existing building heights (avg 5m)

Sunlight Modelling 2024  
day266\_9am

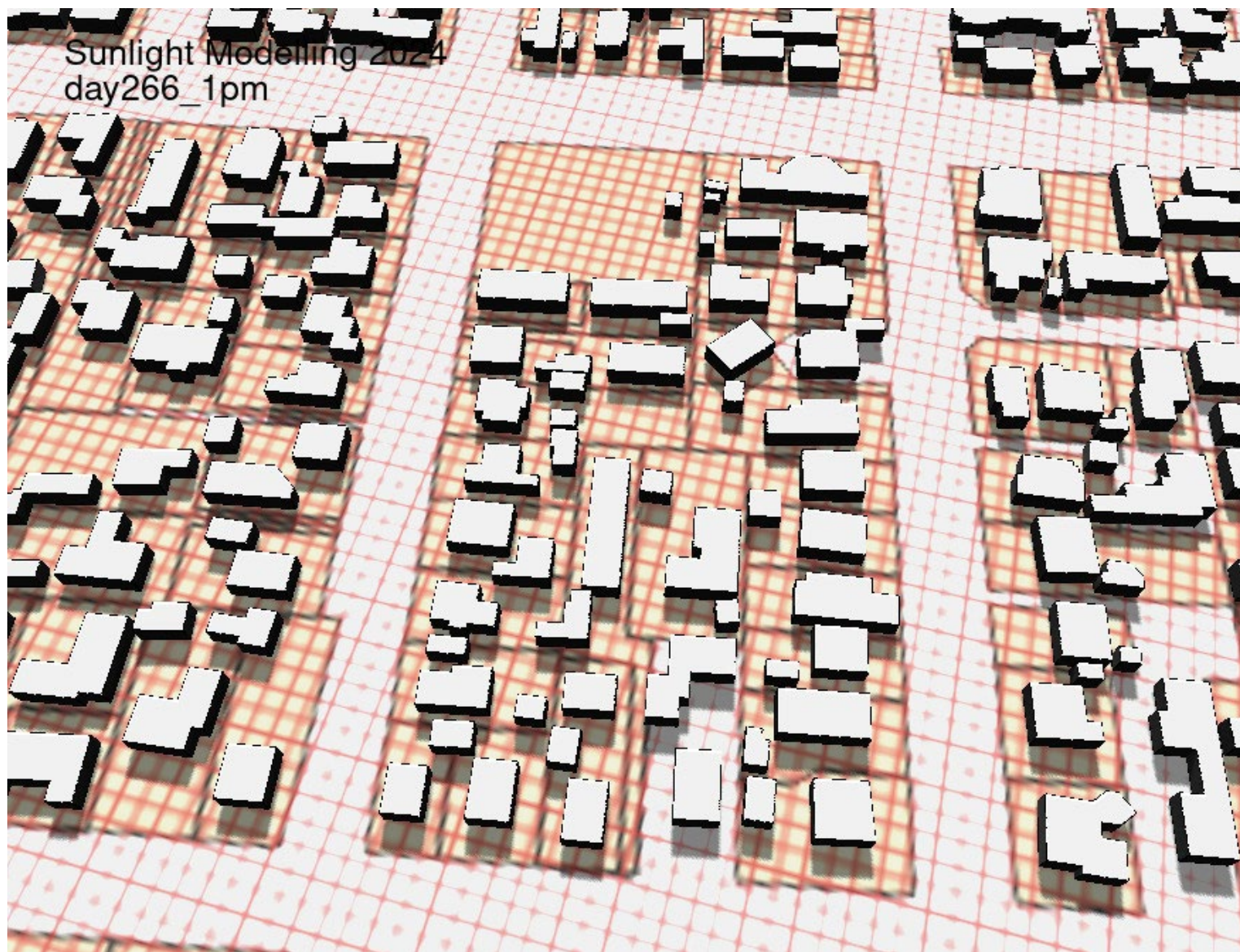




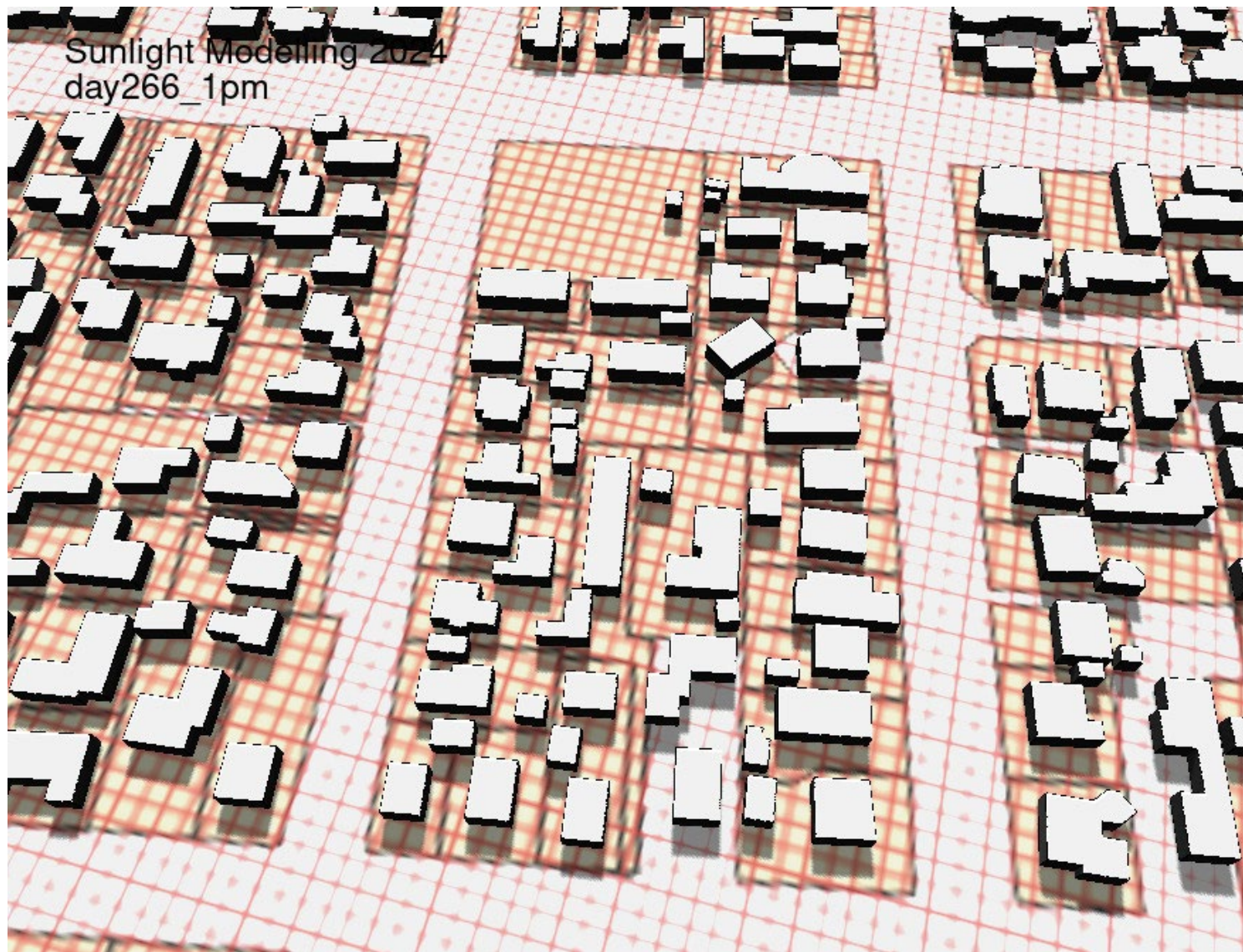
Sunlight Modelling 2024  
day266\_11am



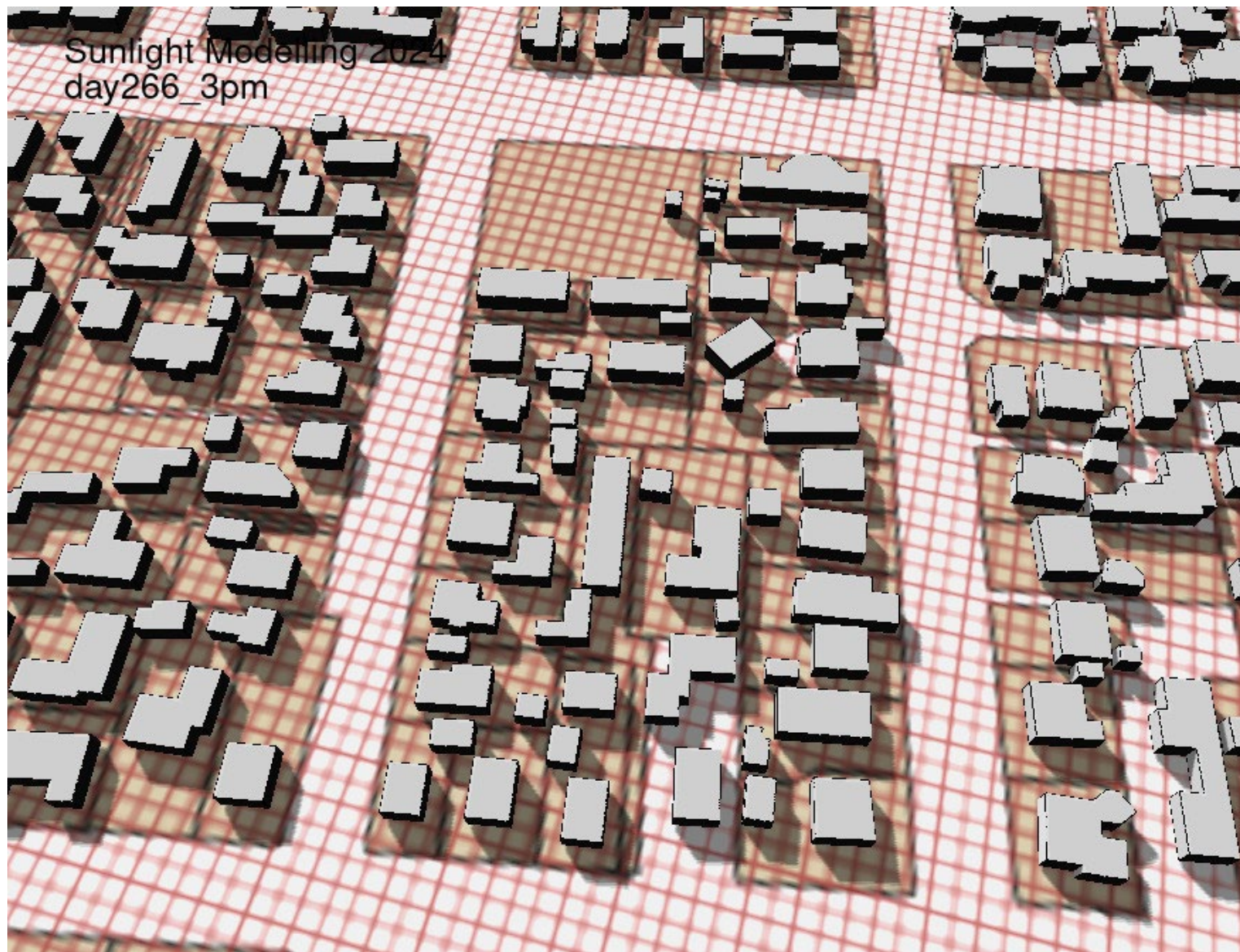
Sunlight Modelling 2024  
day266\_1pm



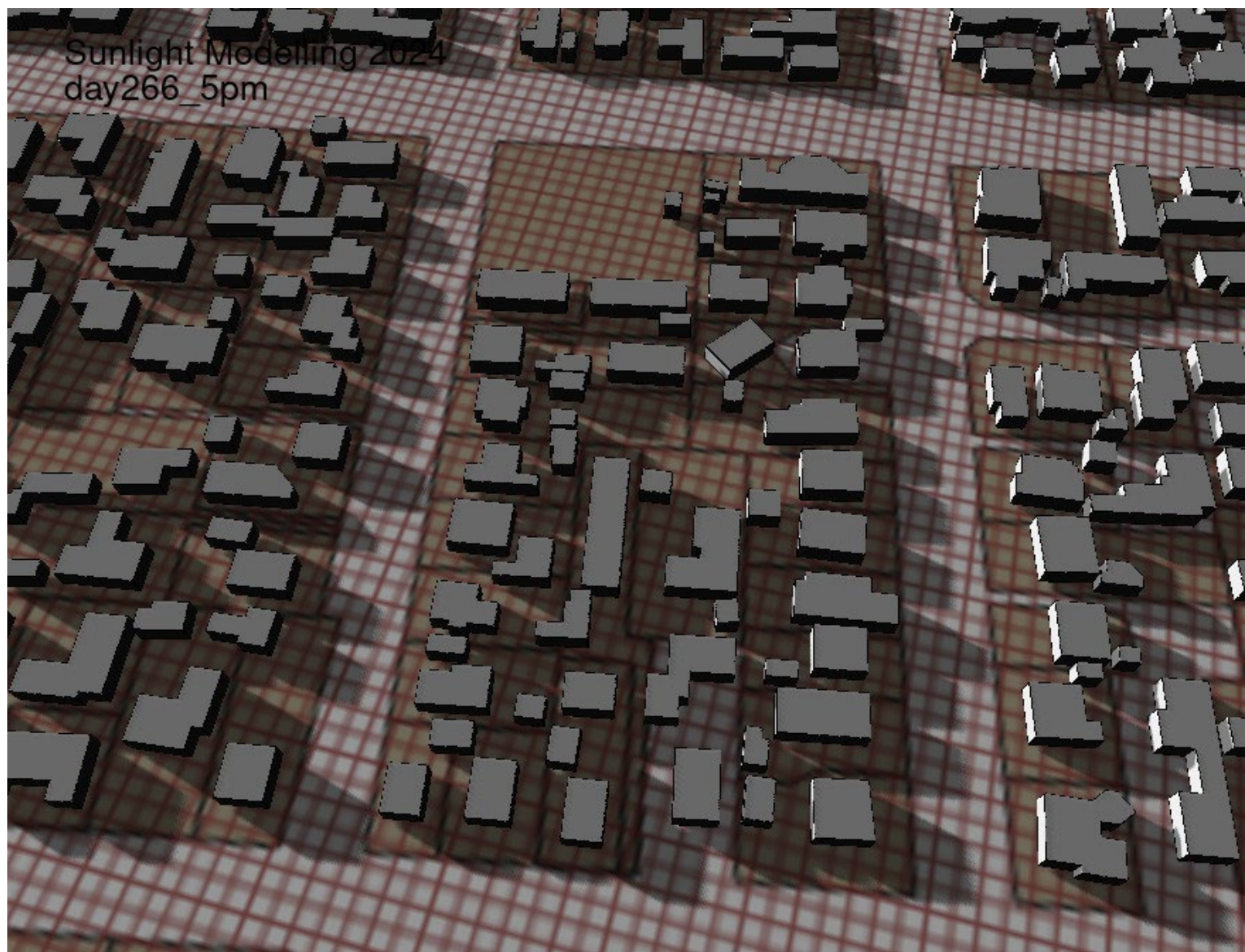
Sunlight Modelling 2024  
day266\_1pm



Sunlight Modelling 2024  
day266\_3pm



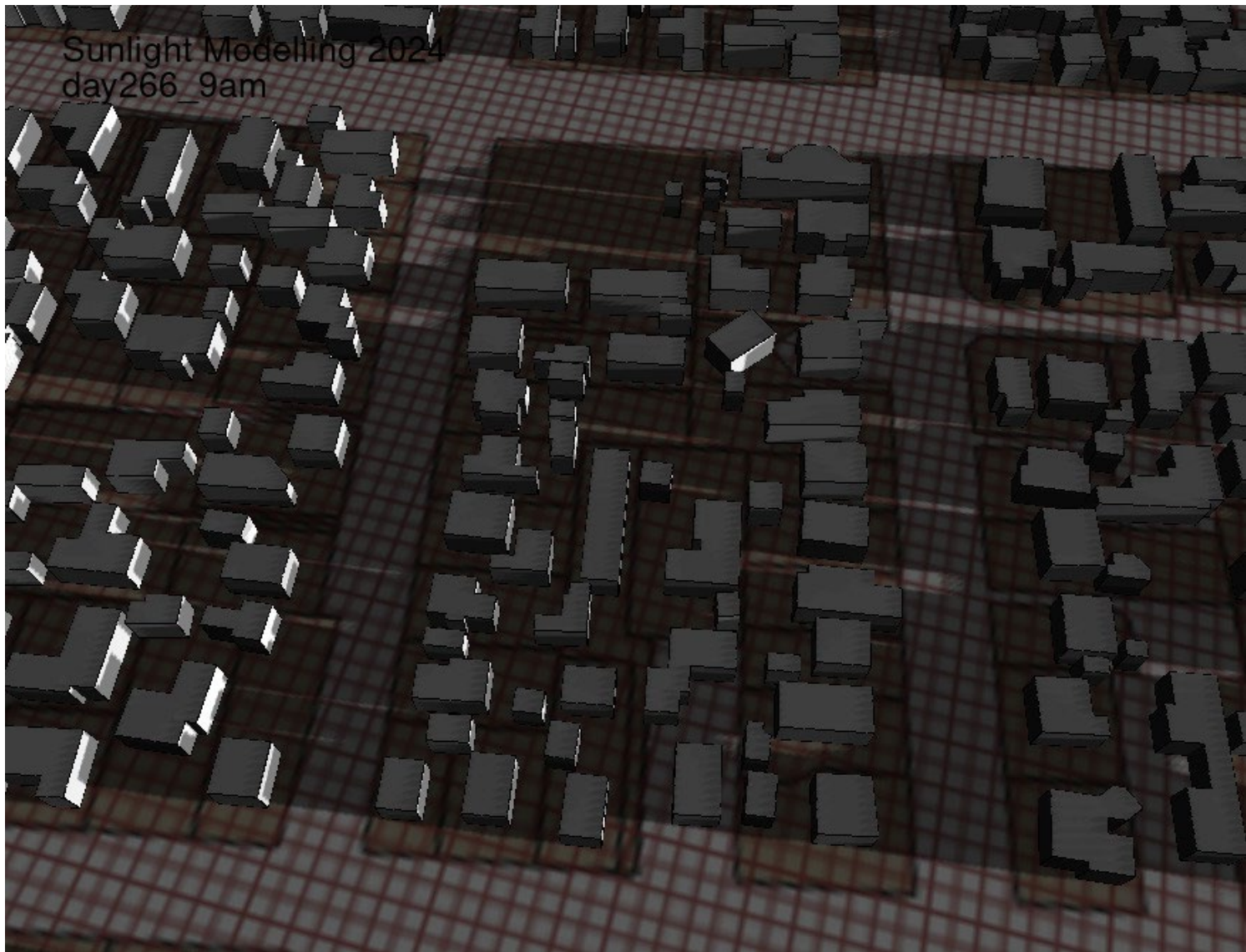
Sunlight Modelling 2024  
day266\_5pm



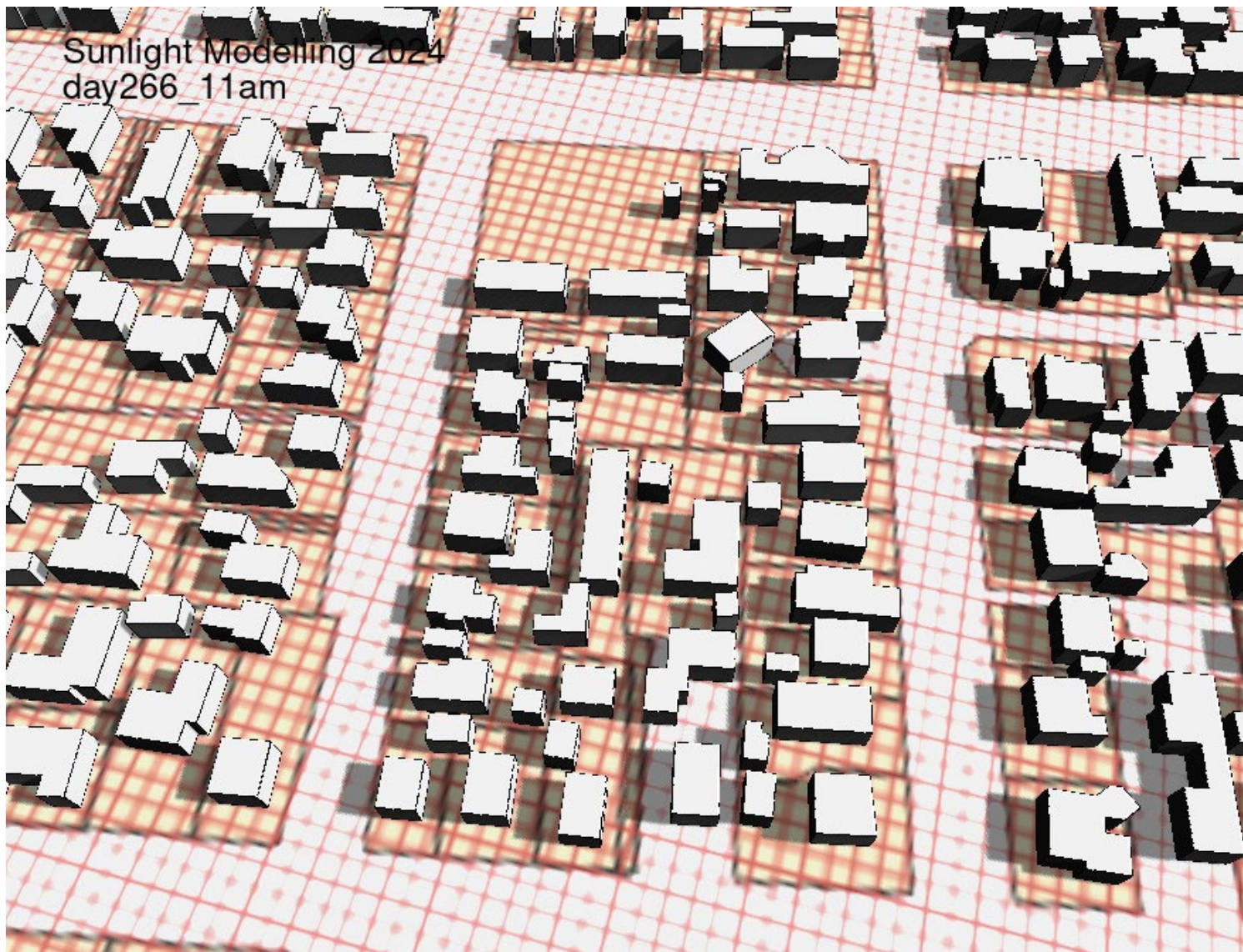
Spring Equinox (Day 266)

Two storey building heights (8m)

Sunlight Modelling 2024  
day266\_9am

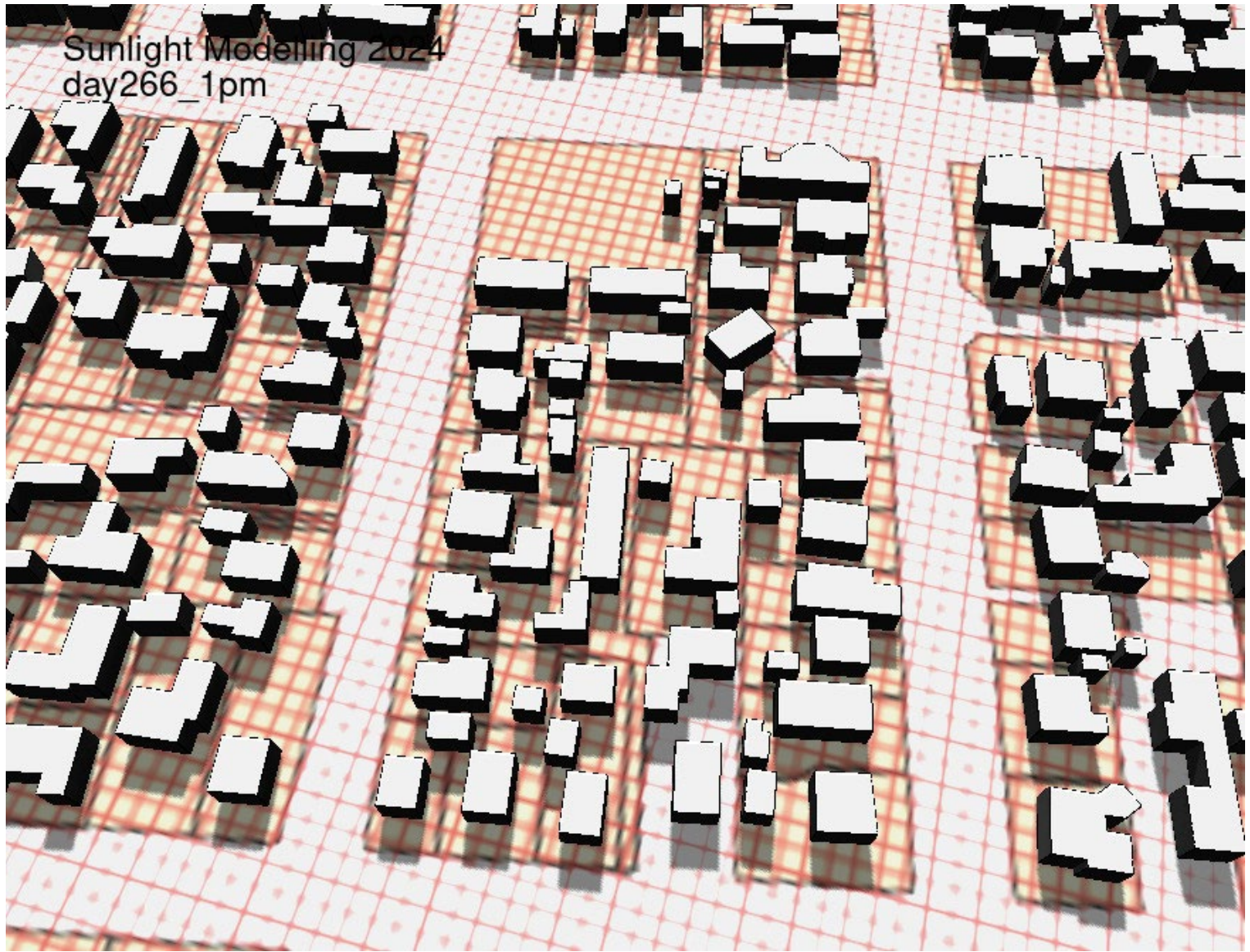


Sunlight Modelling 2024  
day266\_11am

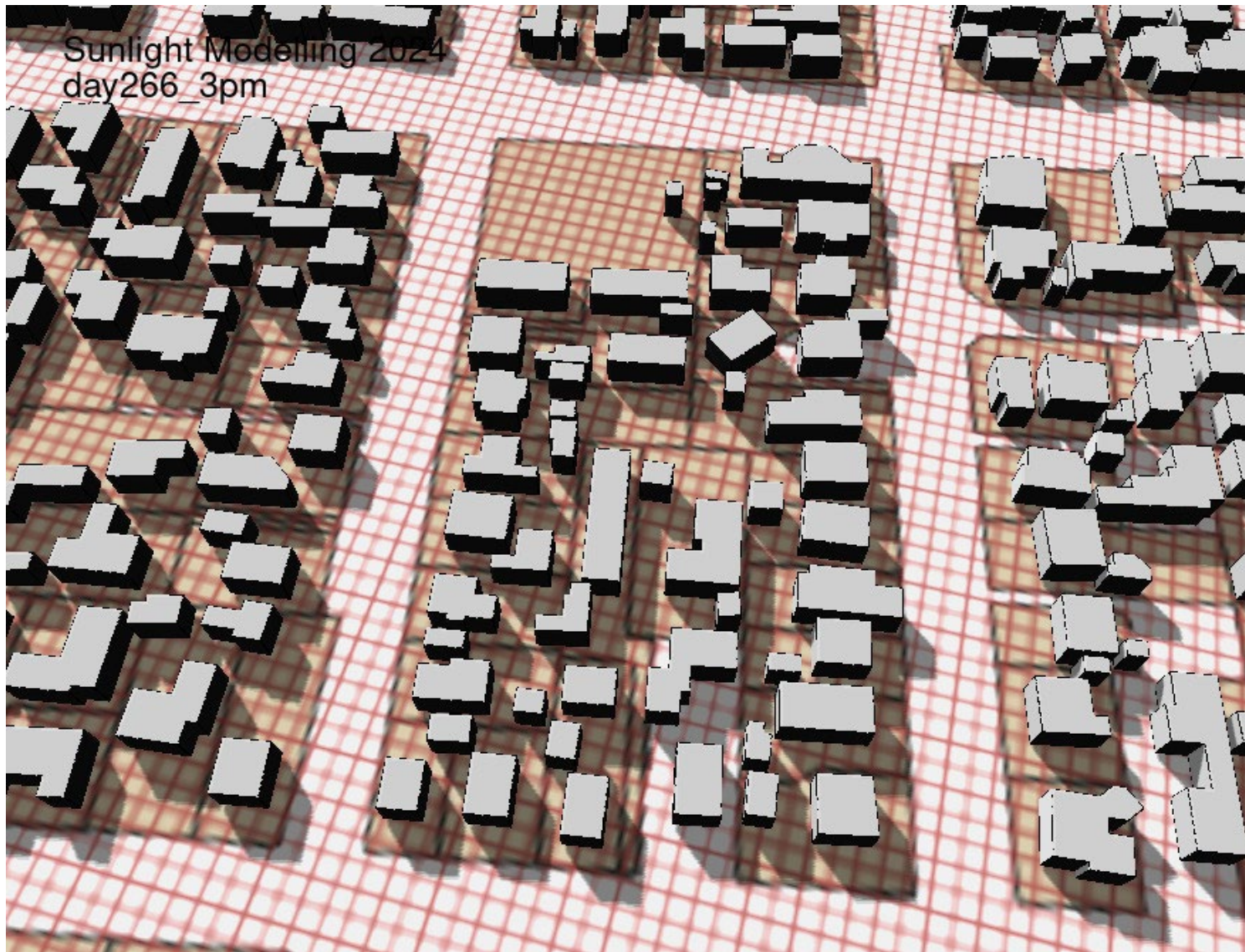




Sunlight Modelling 2024  
day266\_1pm



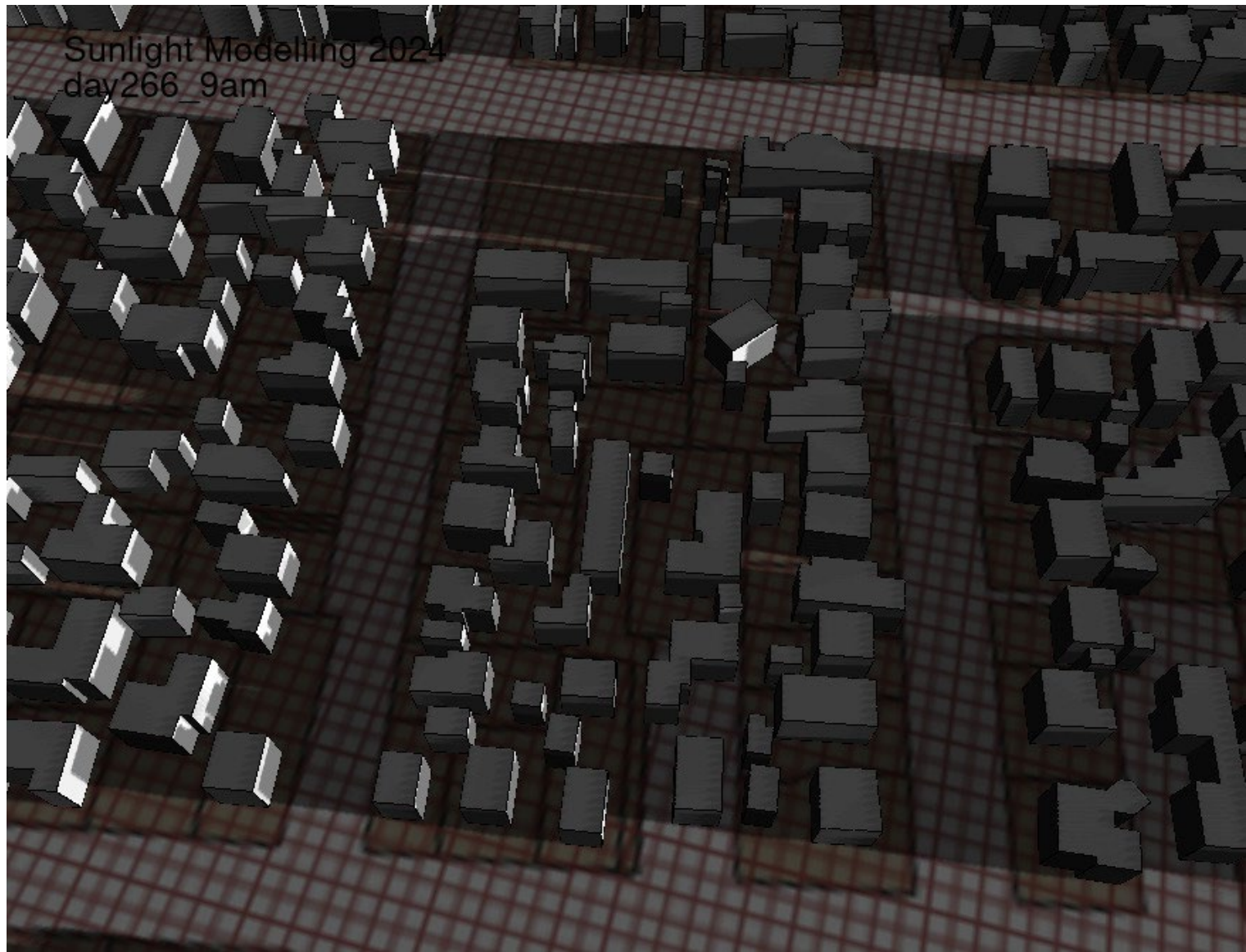
Sunlight Modelling 2024  
day266\_3pm



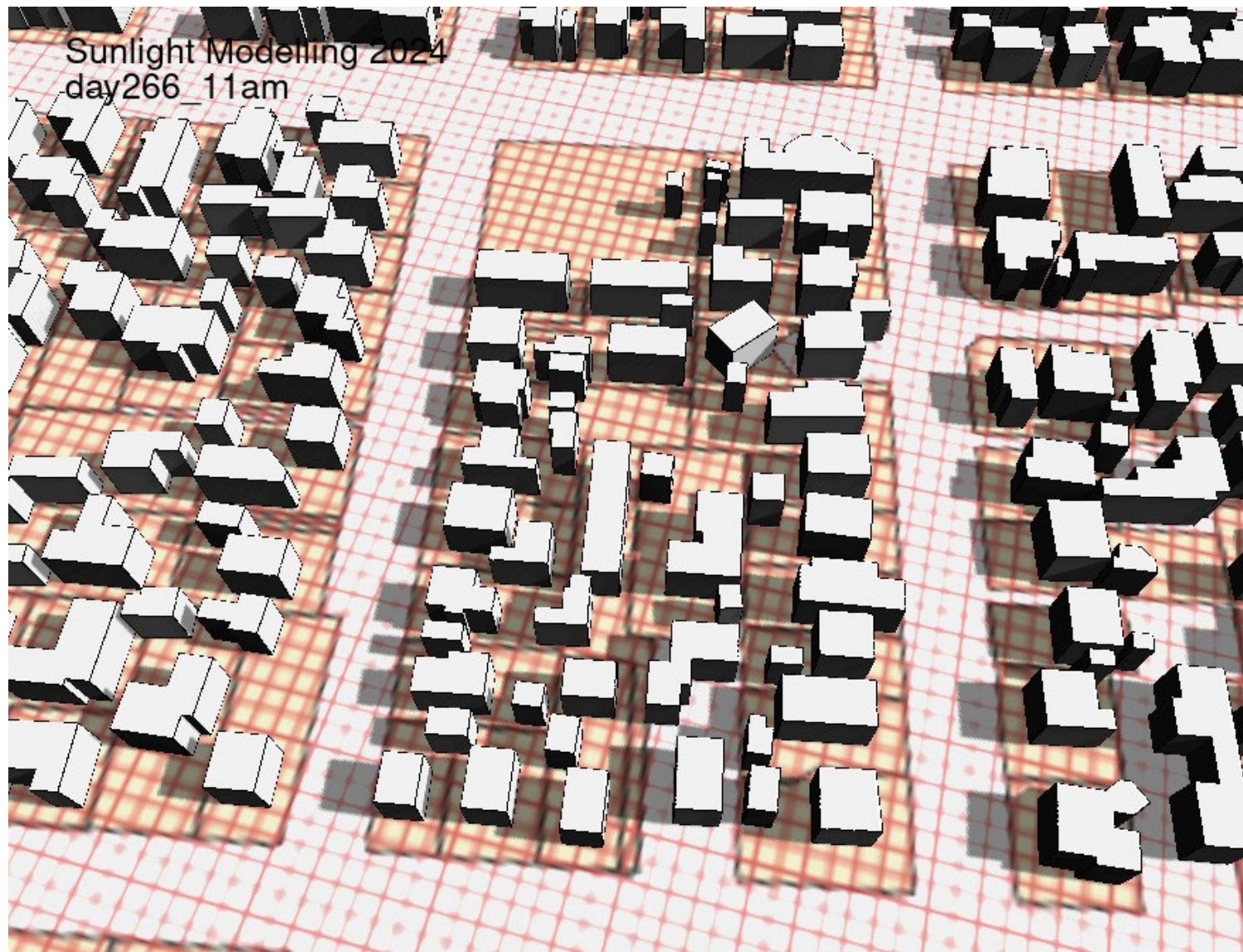
Spring Equinox (Day 266)

Three storey building heights (12m)

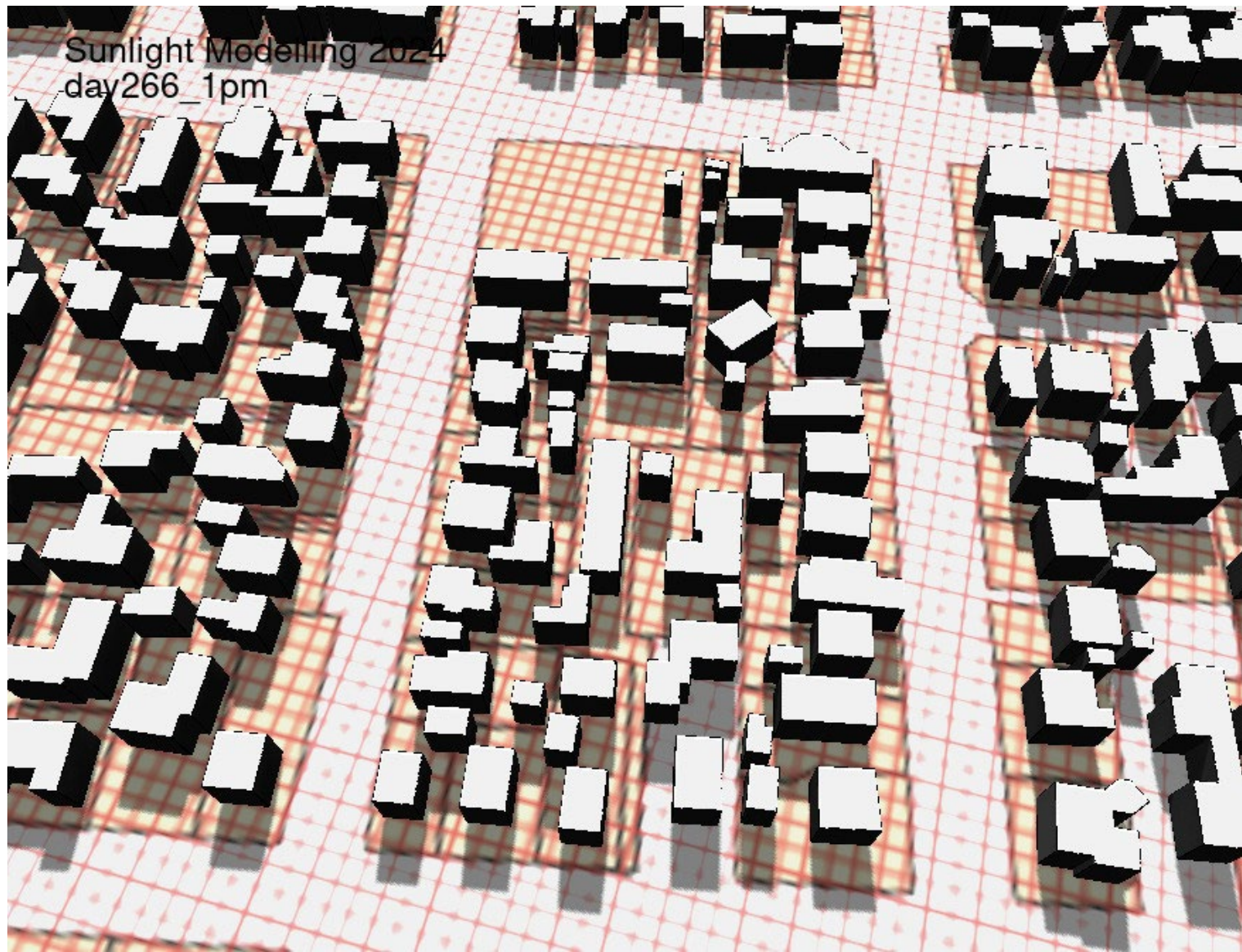
Sunlight Modelling 2024  
day266\_9am



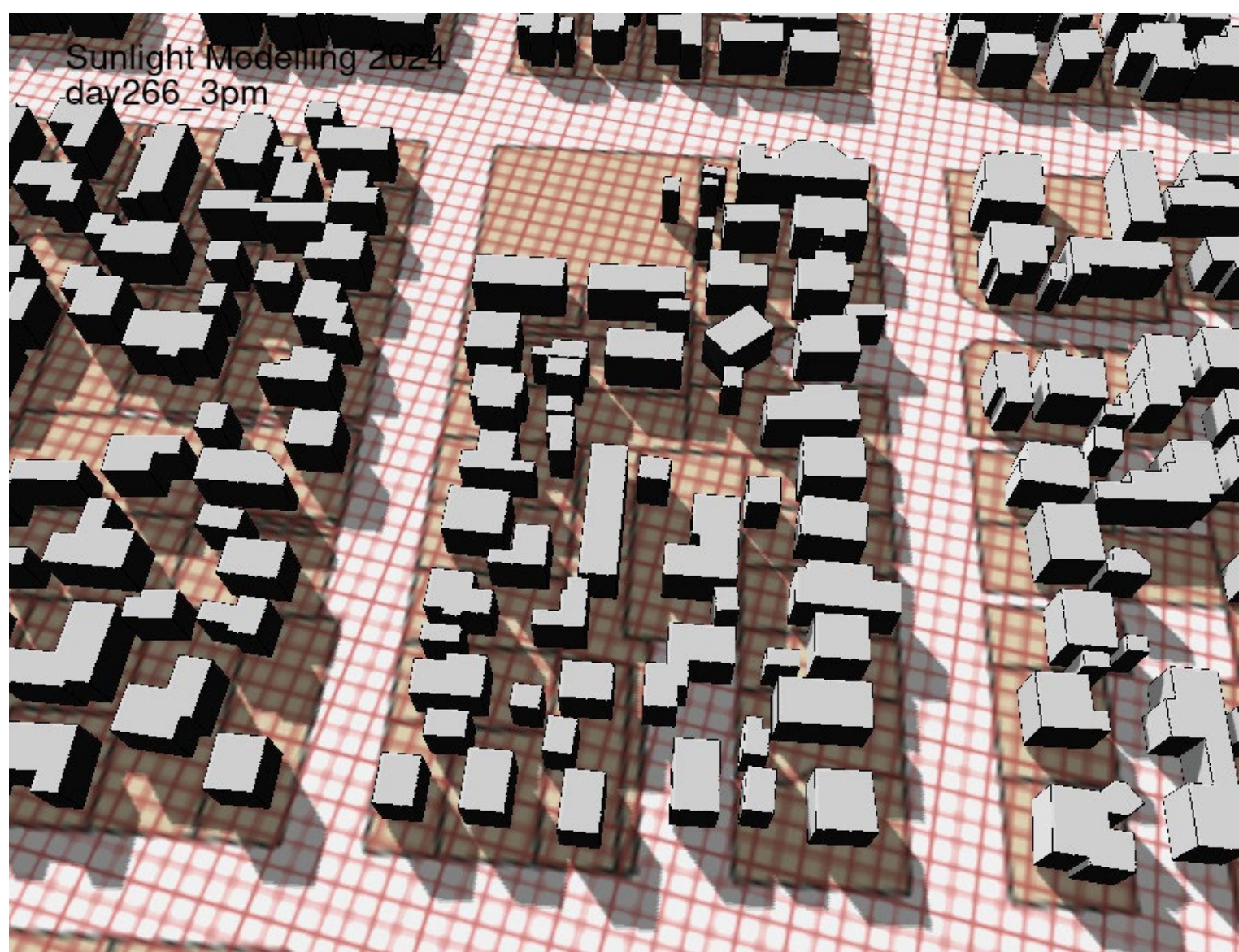
Sunlight Modelling 2024  
day266 11am



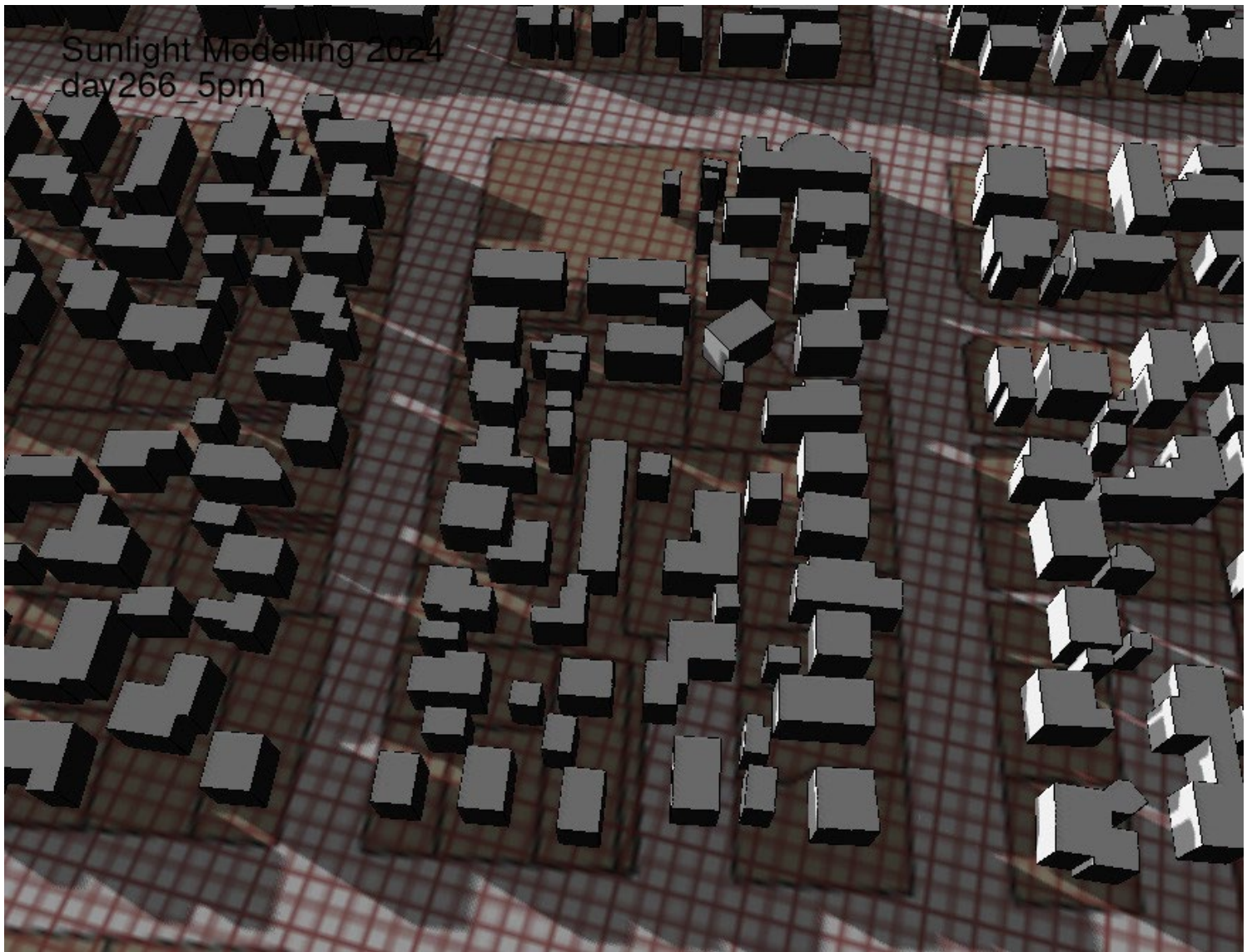
Sunlight Modelling 2024  
day266\_1pm



Sunlight Modelling 2024  
day266\_3pm



Sunlight Modelling 2024  
day266\_5pm

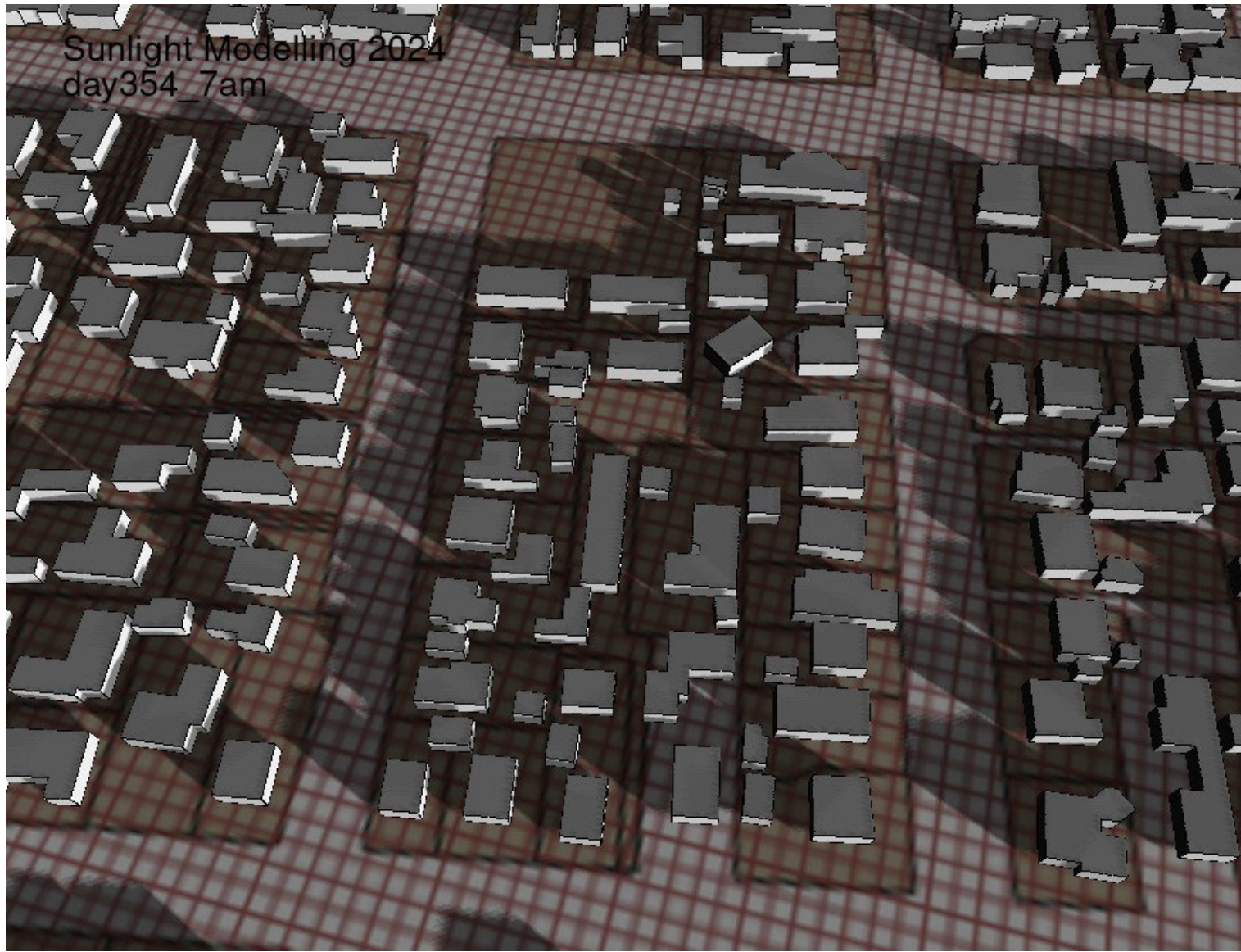




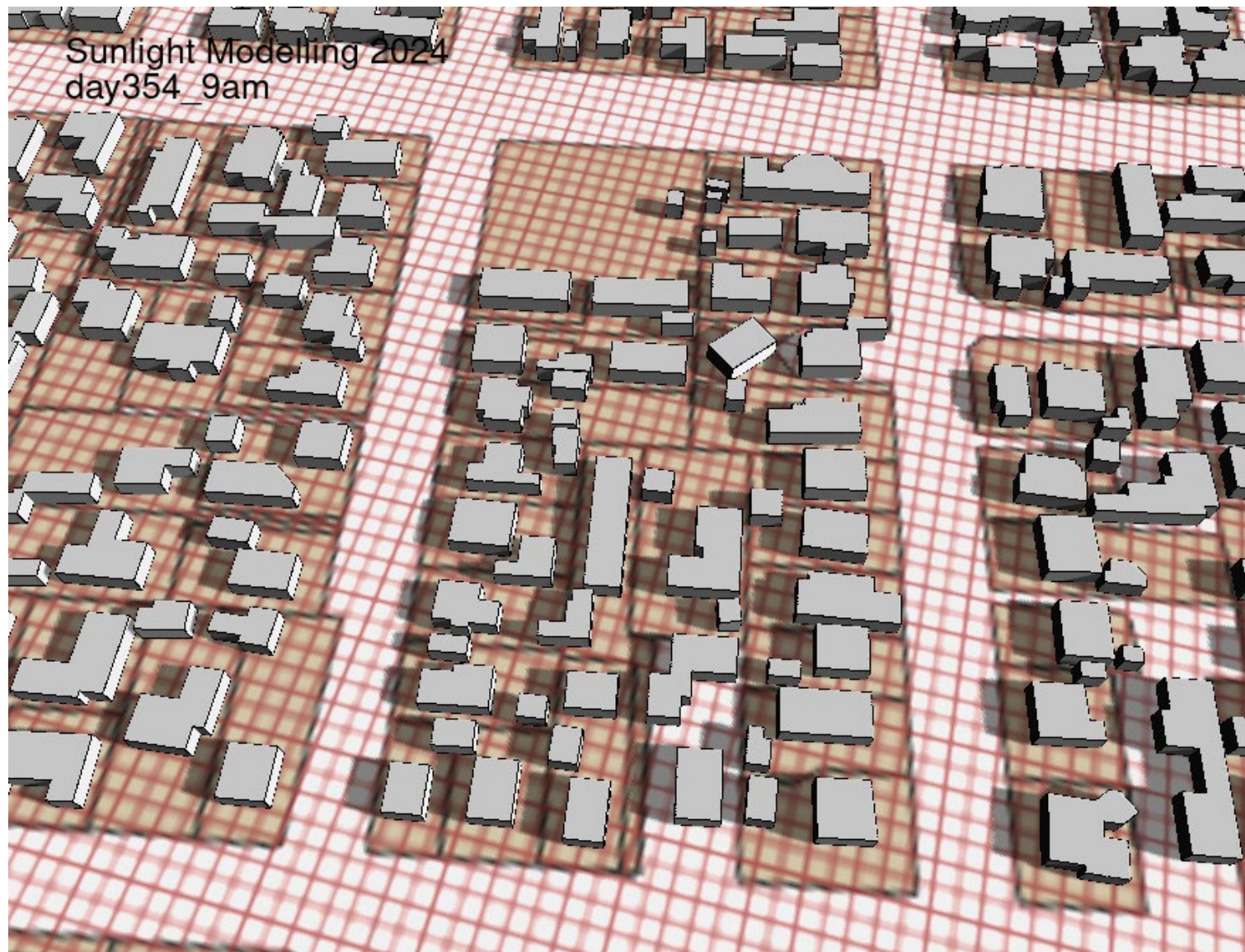
Summer Solstice (Day 354)

Existing building heights (avg 5m)

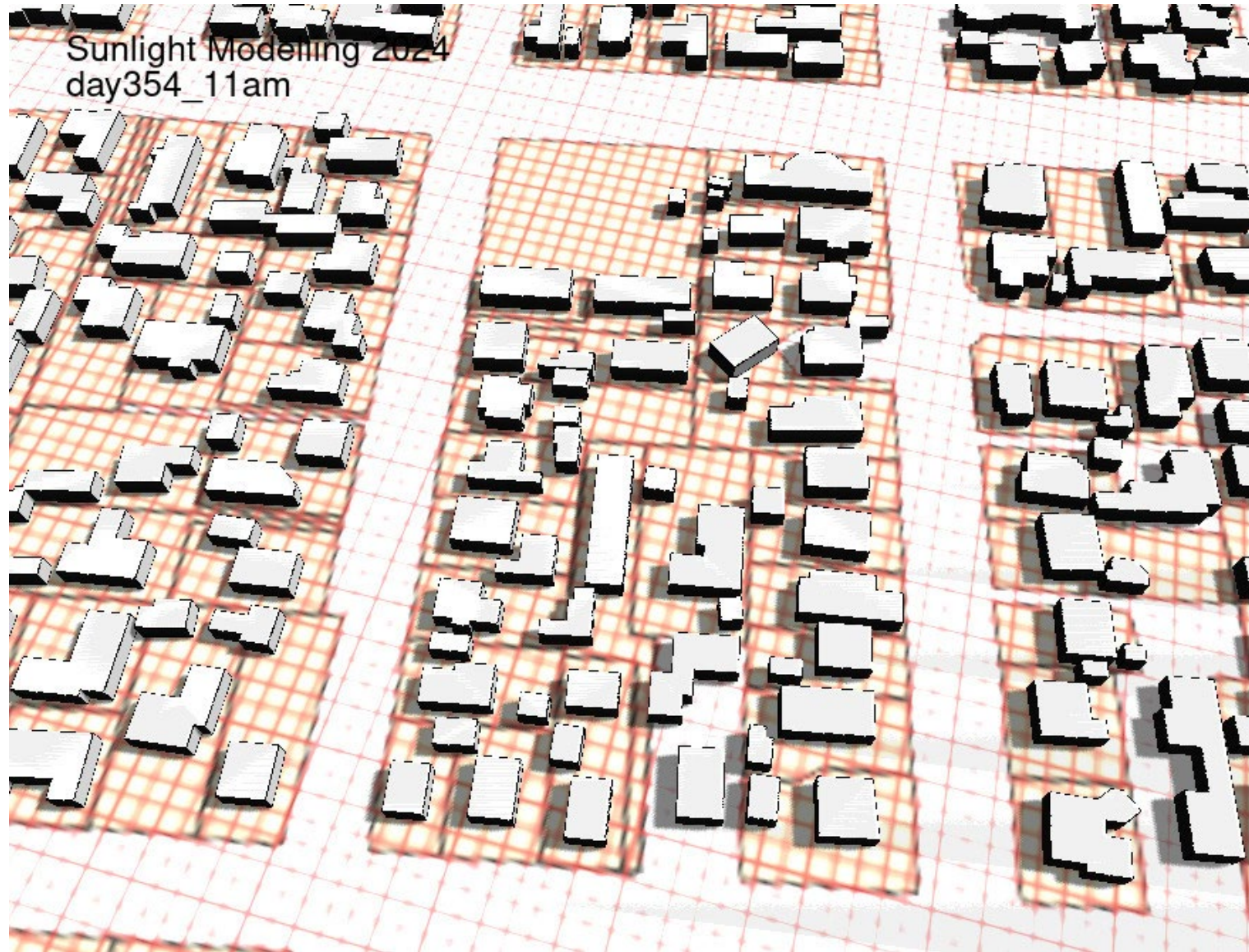
Sunlight Modelling 2024  
day354\_7am



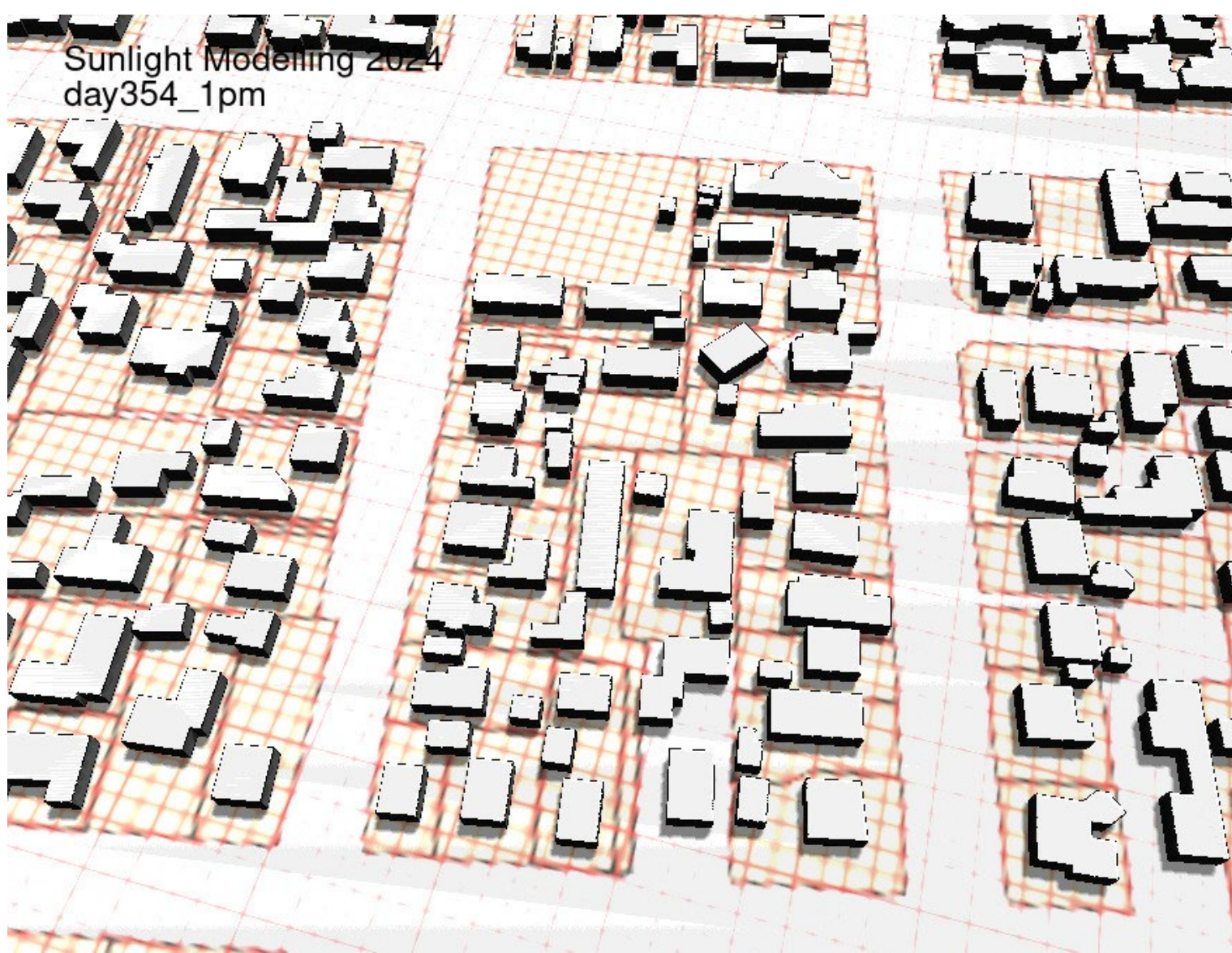
Sunlight Modelling 2024  
day354\_9am



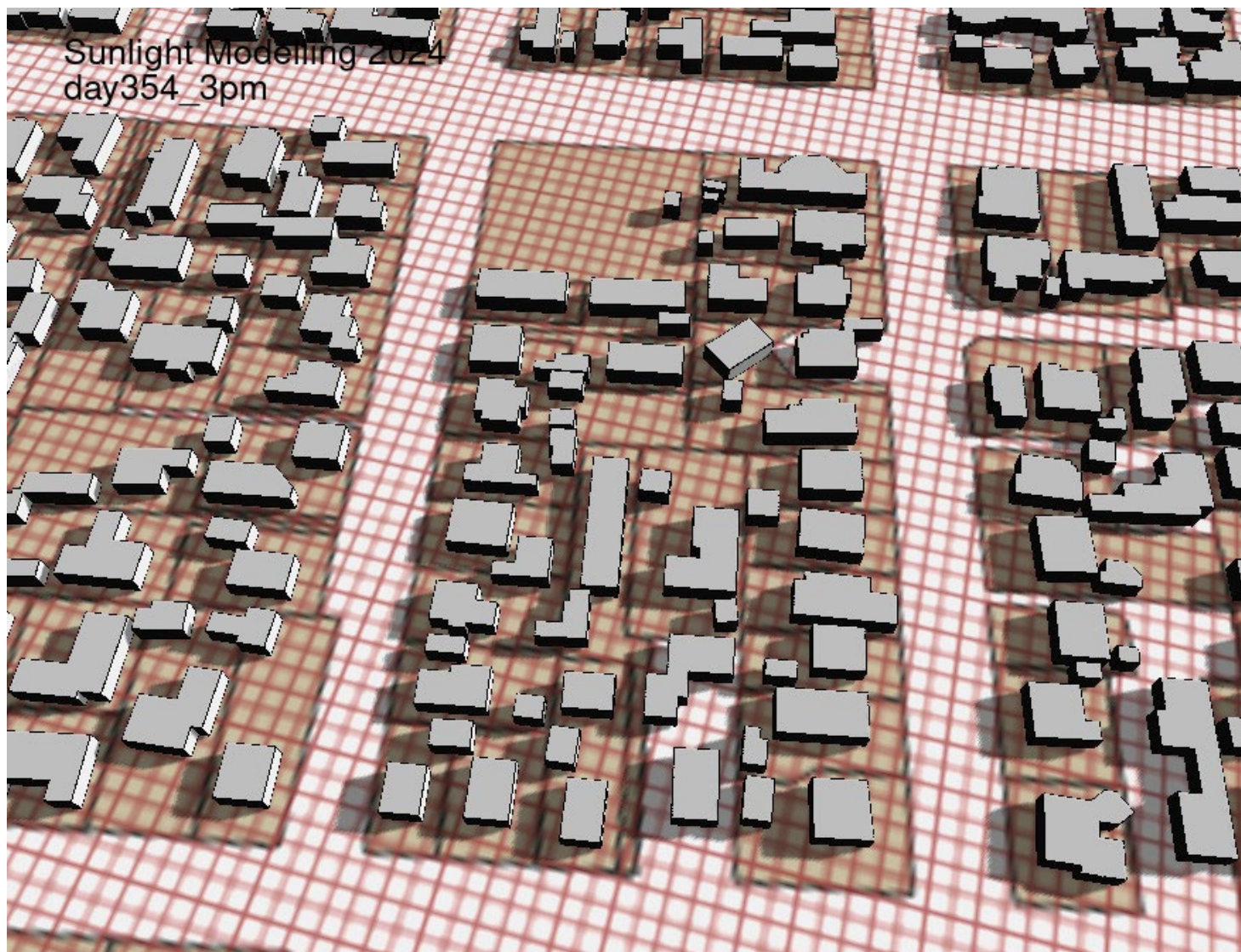
Sunlight Modelling 2024  
day354\_11am



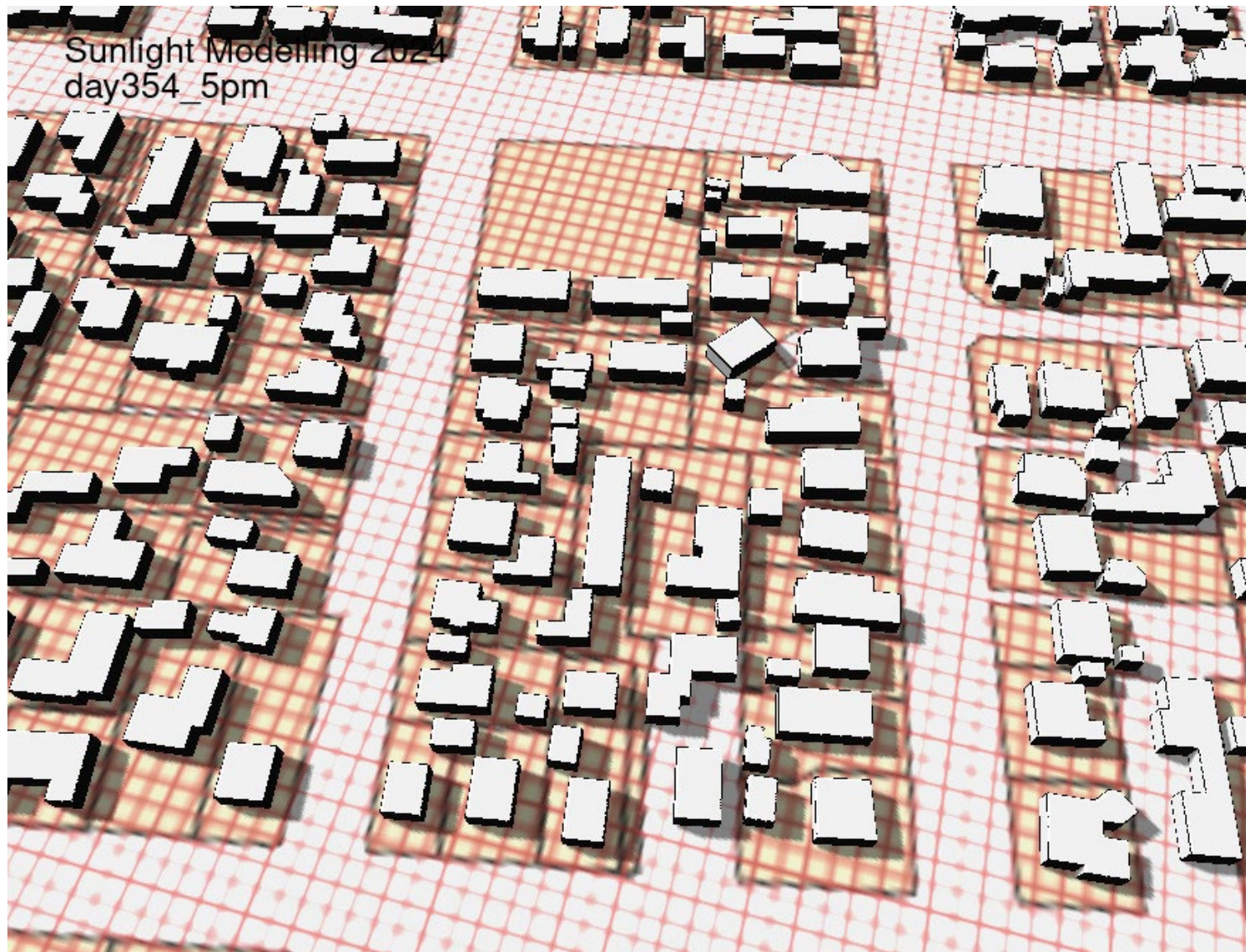
Sunlight Modelling 2024  
day354\_1pm



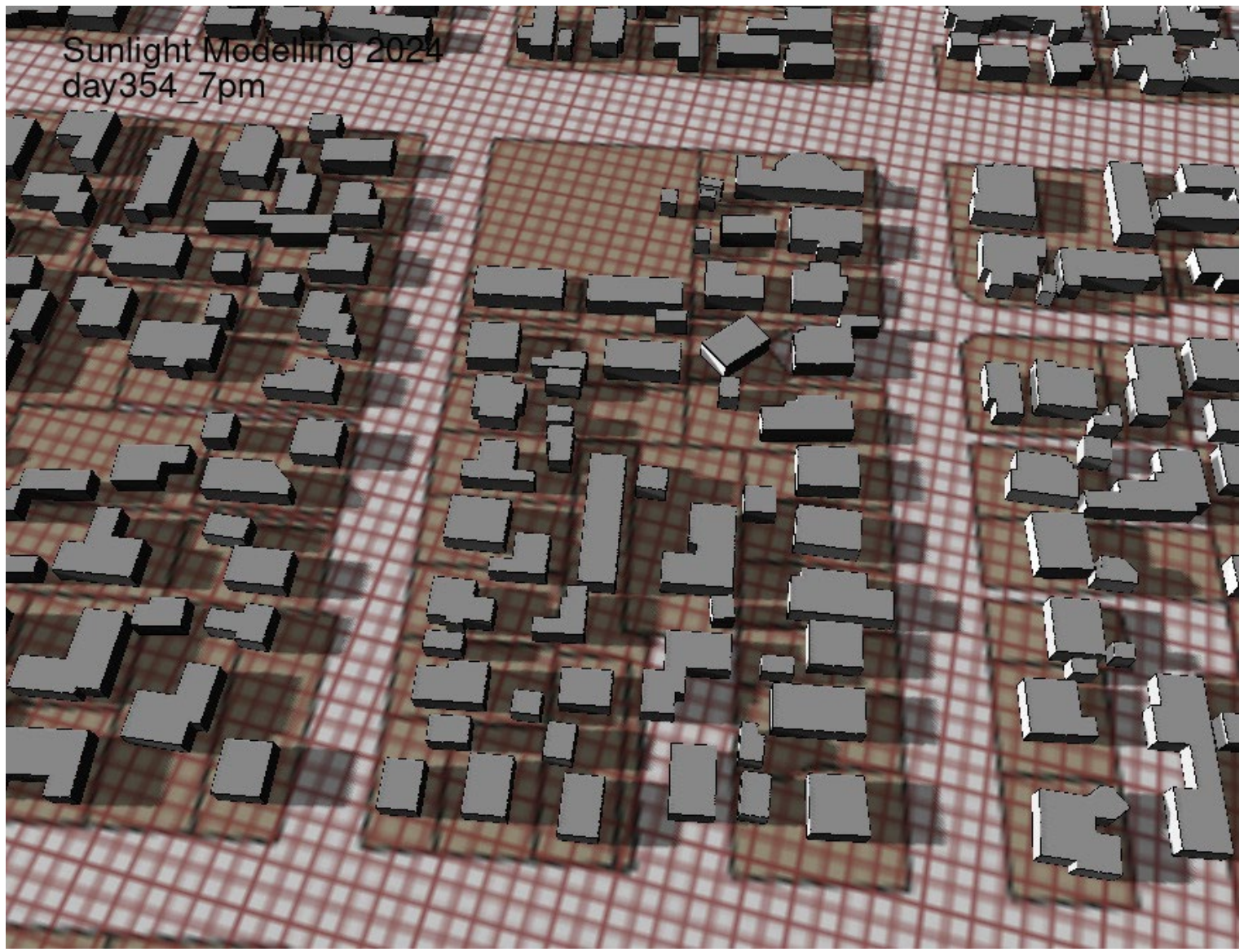
Sunlight Modelling 2024  
day354\_3pm



Sunlight Modelling 2024  
day354\_5pm



Sunlight Modelling 2024  
day354\_7pm

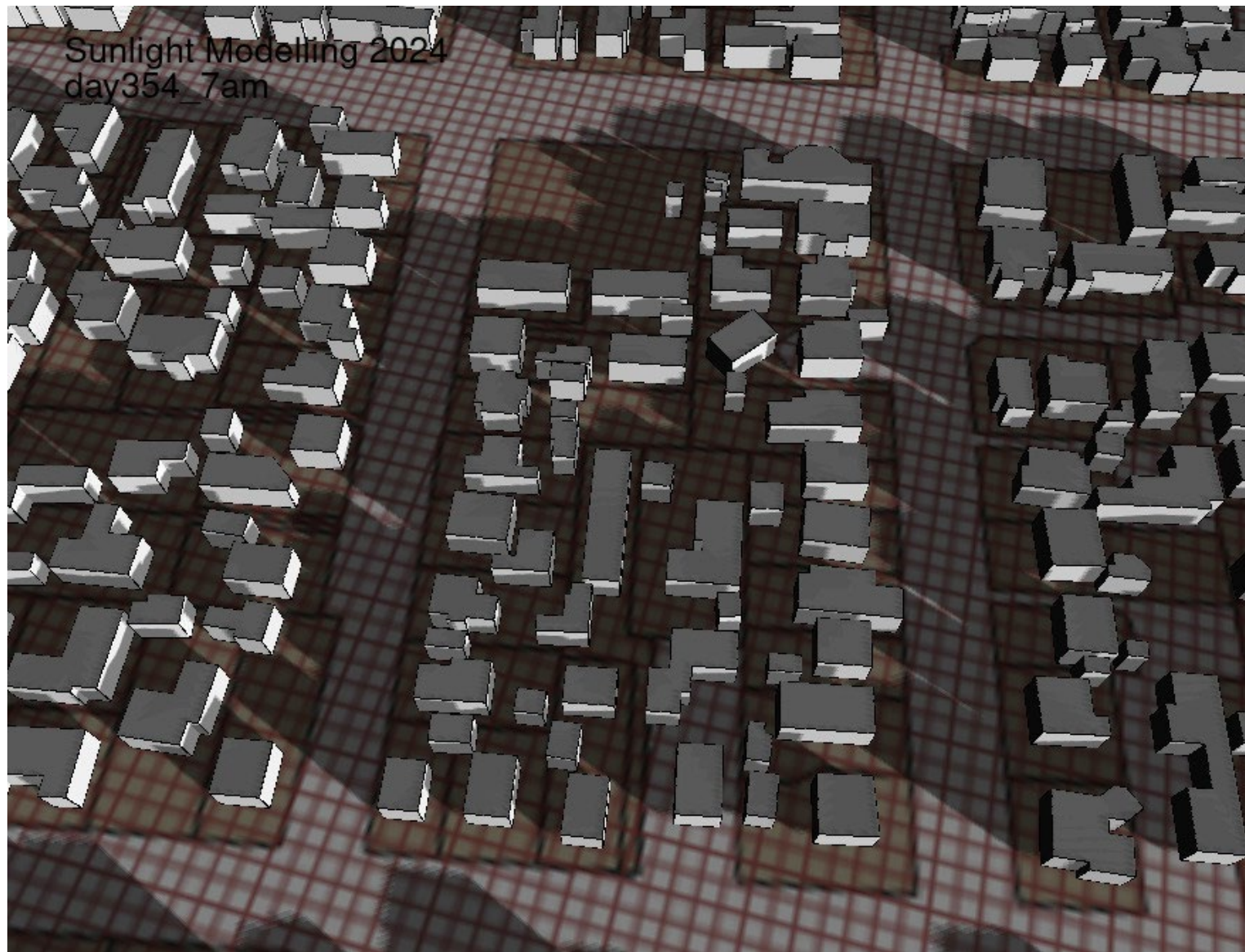




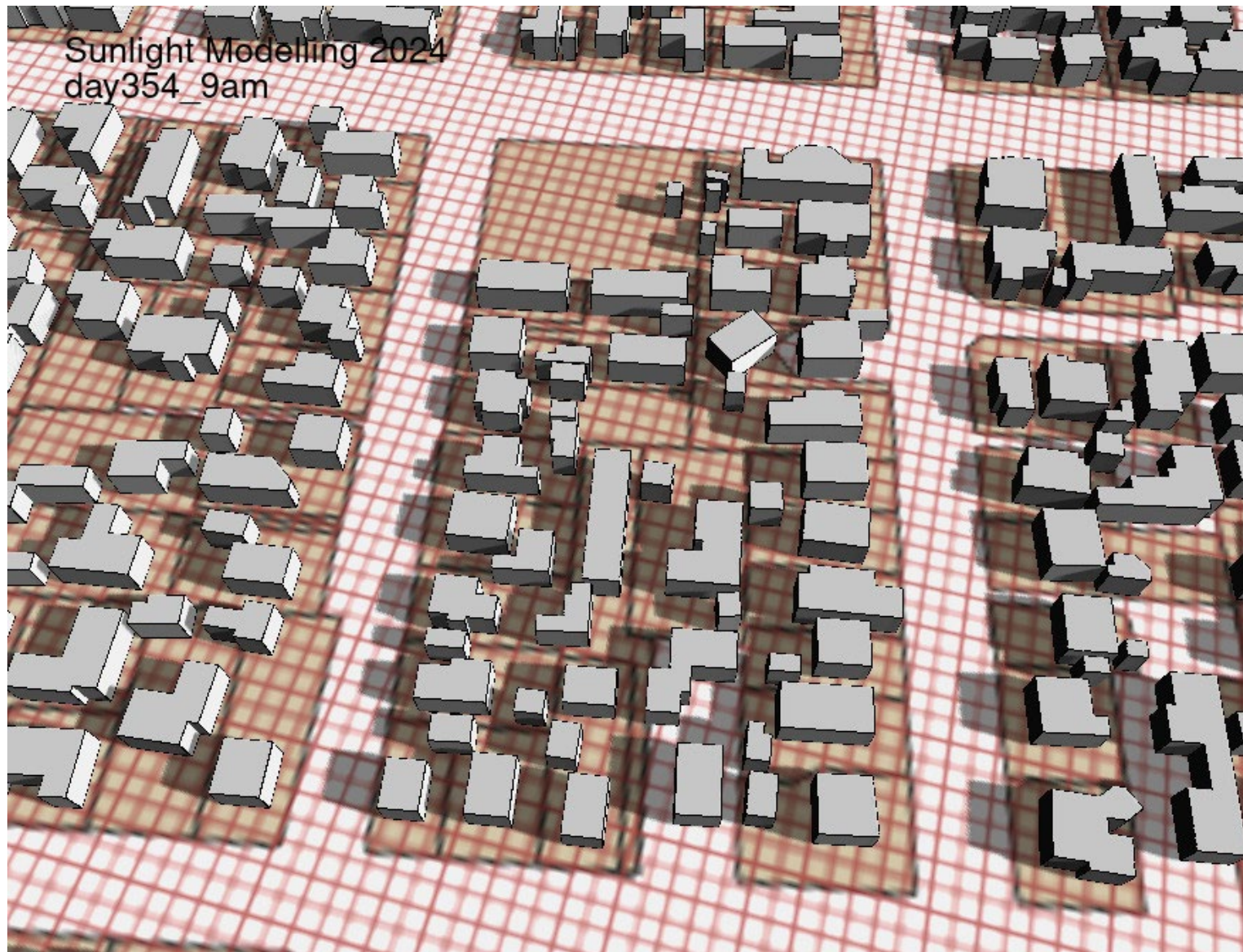
Summer Solstice (Day 354)

Two storey building heights (8m)

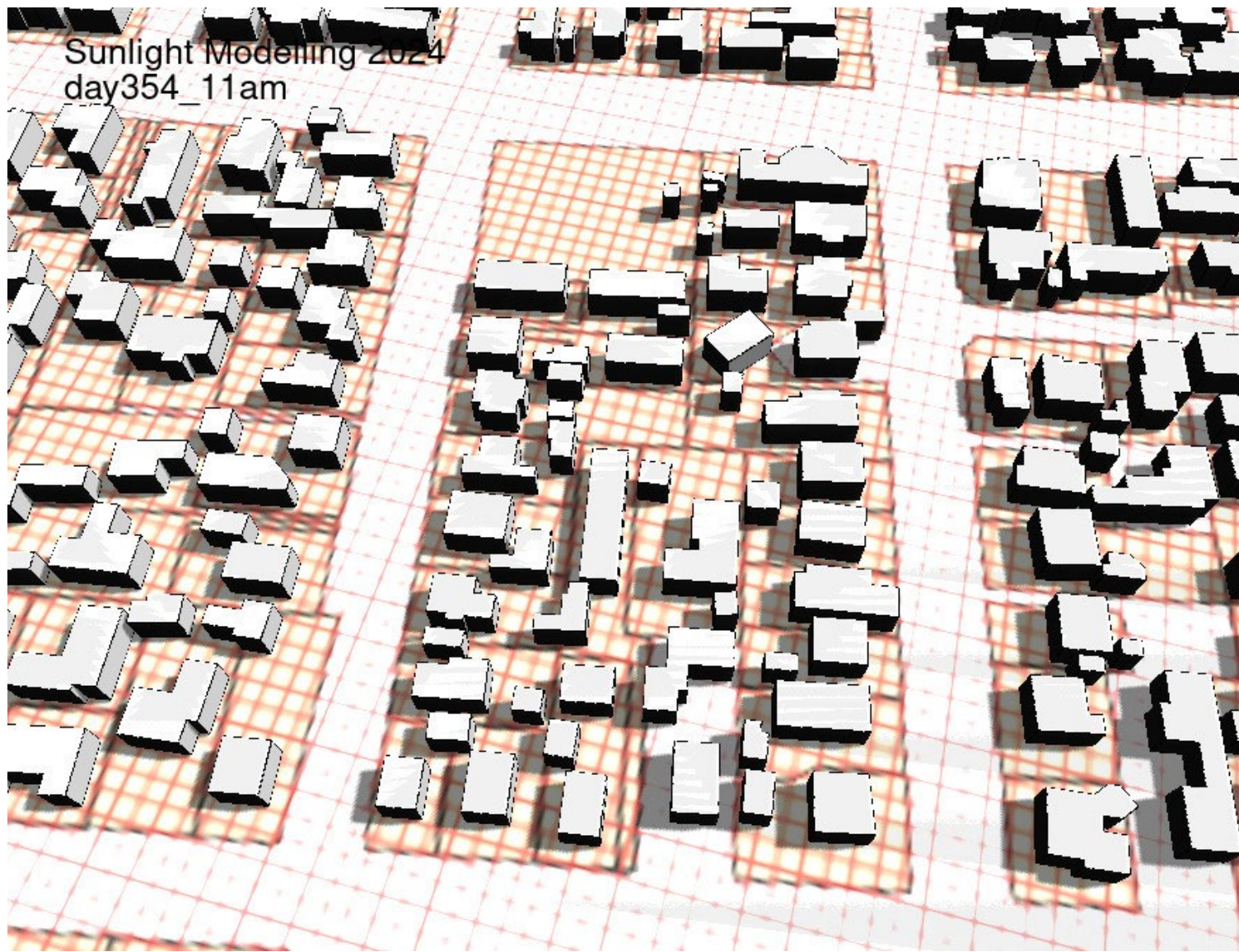
Sunlight Modelling 2024  
day354 7am



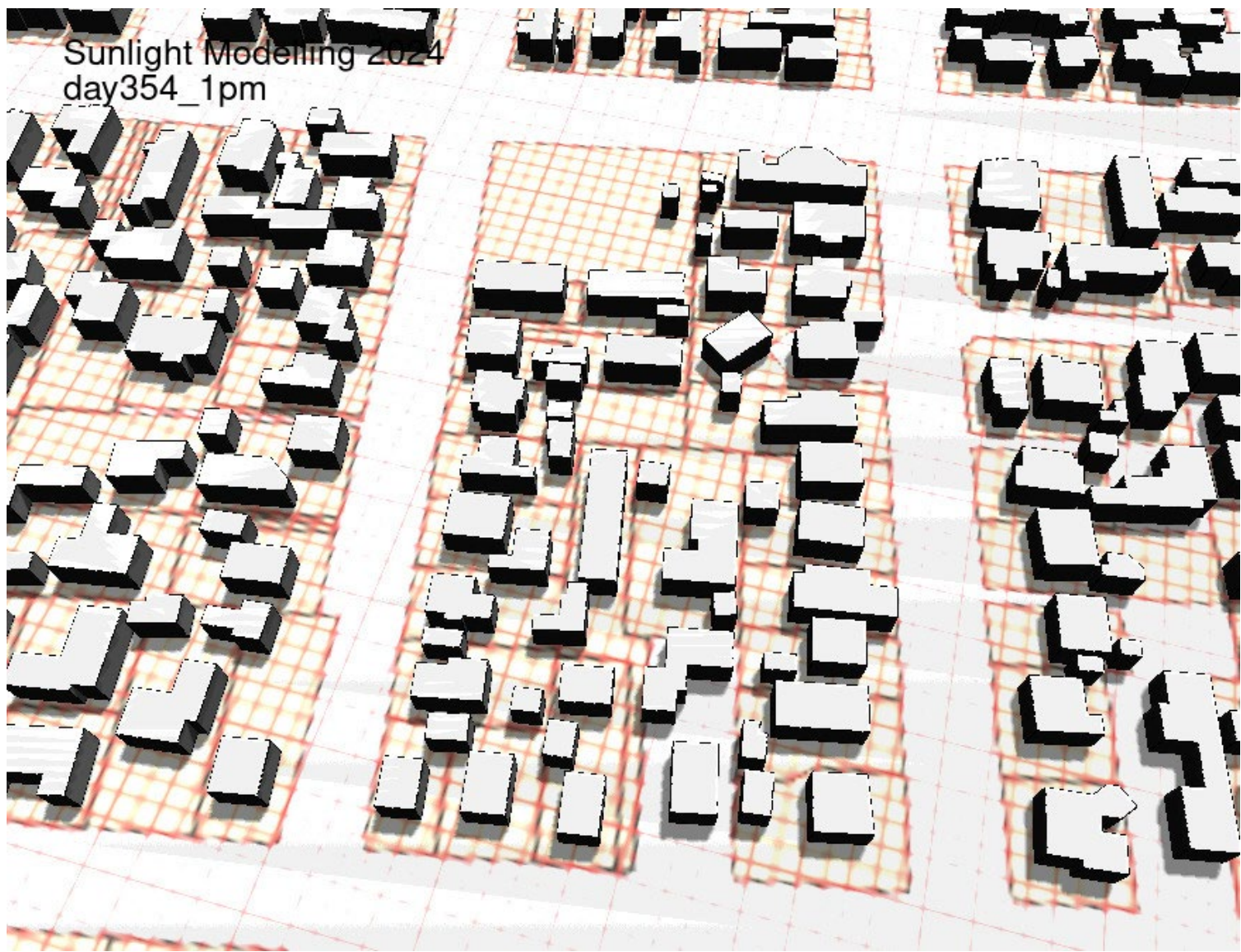
Sunlight Modelling 2024  
day354\_9am



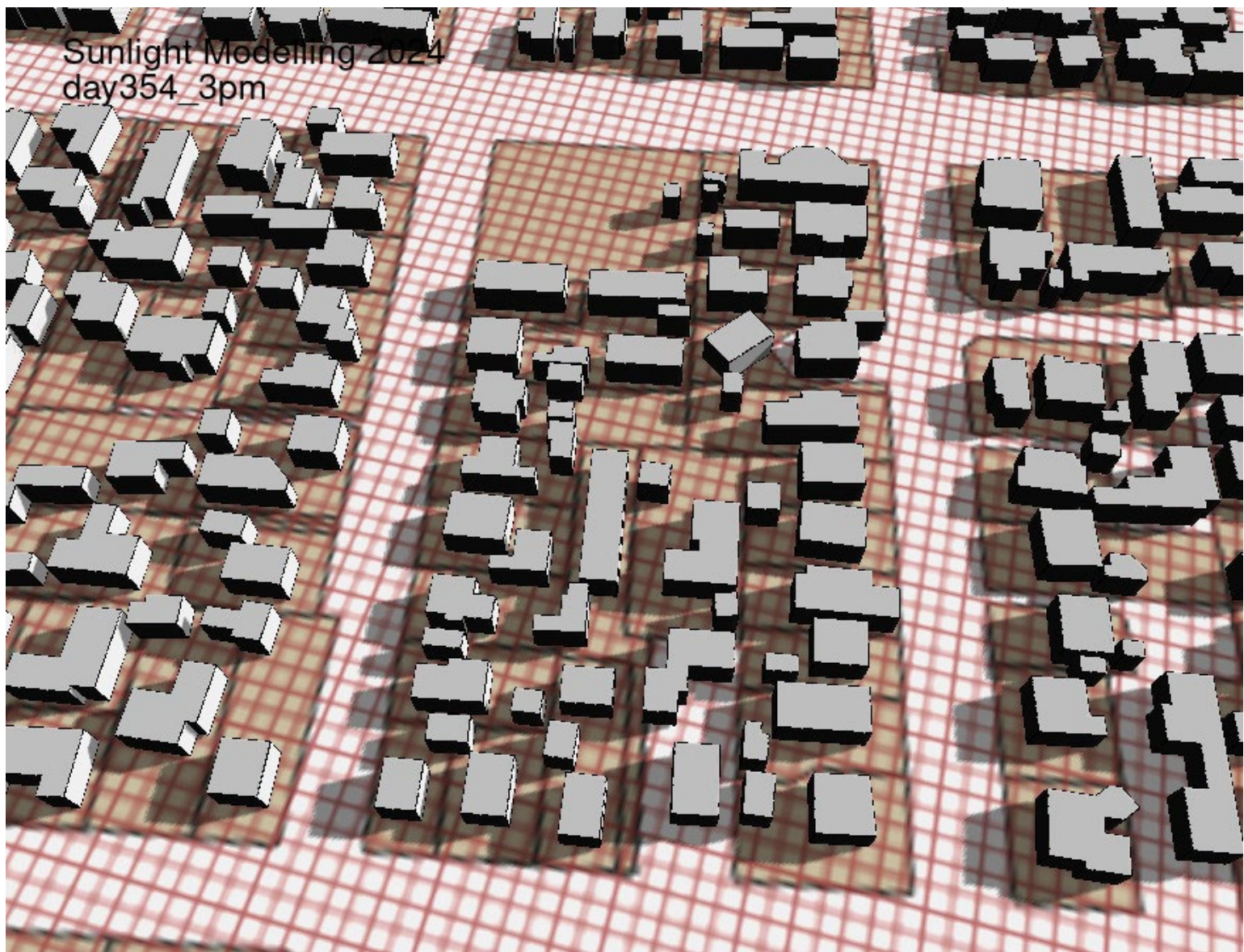
Sunlight Modelling 2024  
day354\_11am



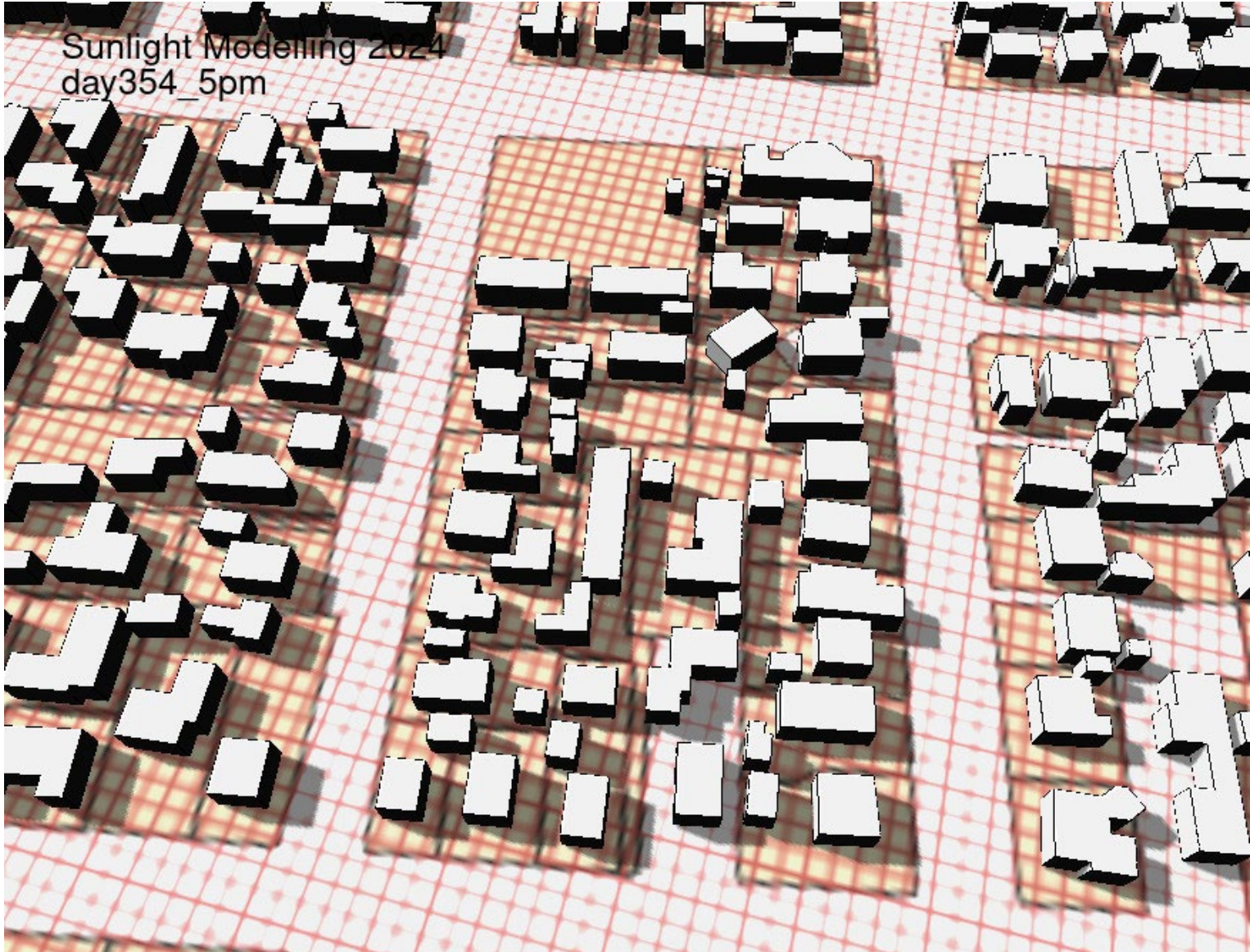
Sunlight Modelling 2024  
day354\_1pm



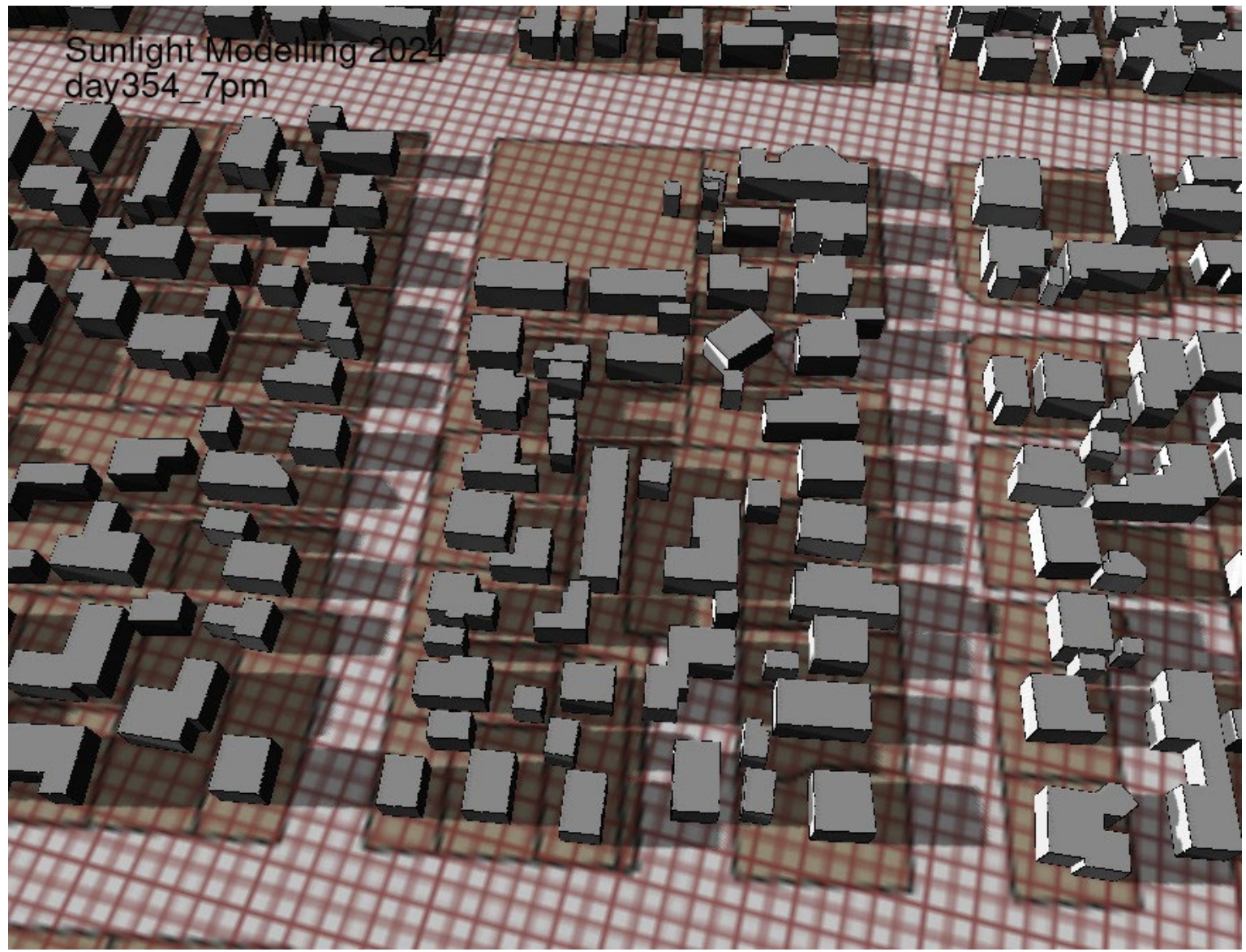
Sunlight Modelling 2024  
day354\_3pm



Sunlight Modelling 2024  
day354\_5pm



Sunlight Modelling 2024  
day354\_7pm

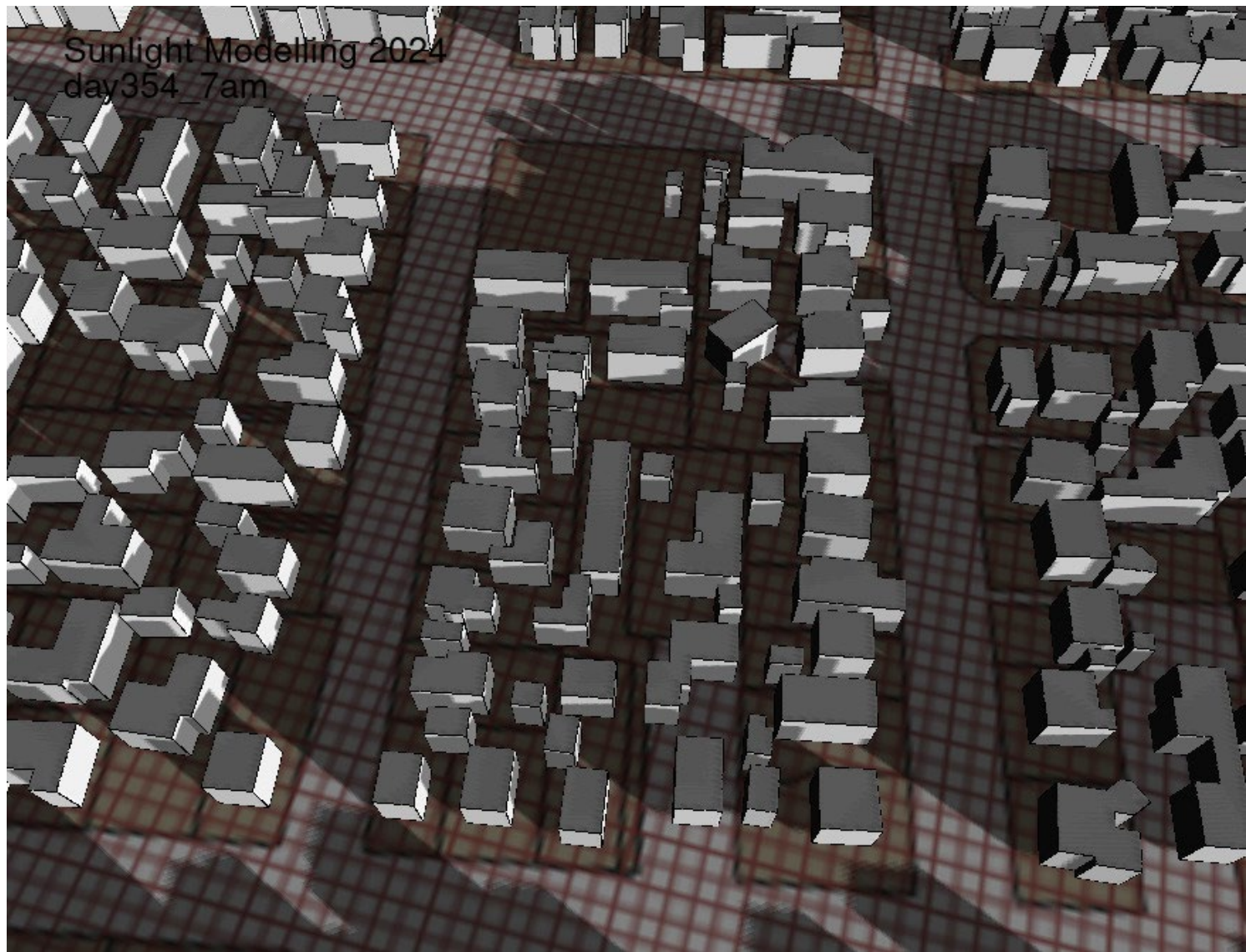




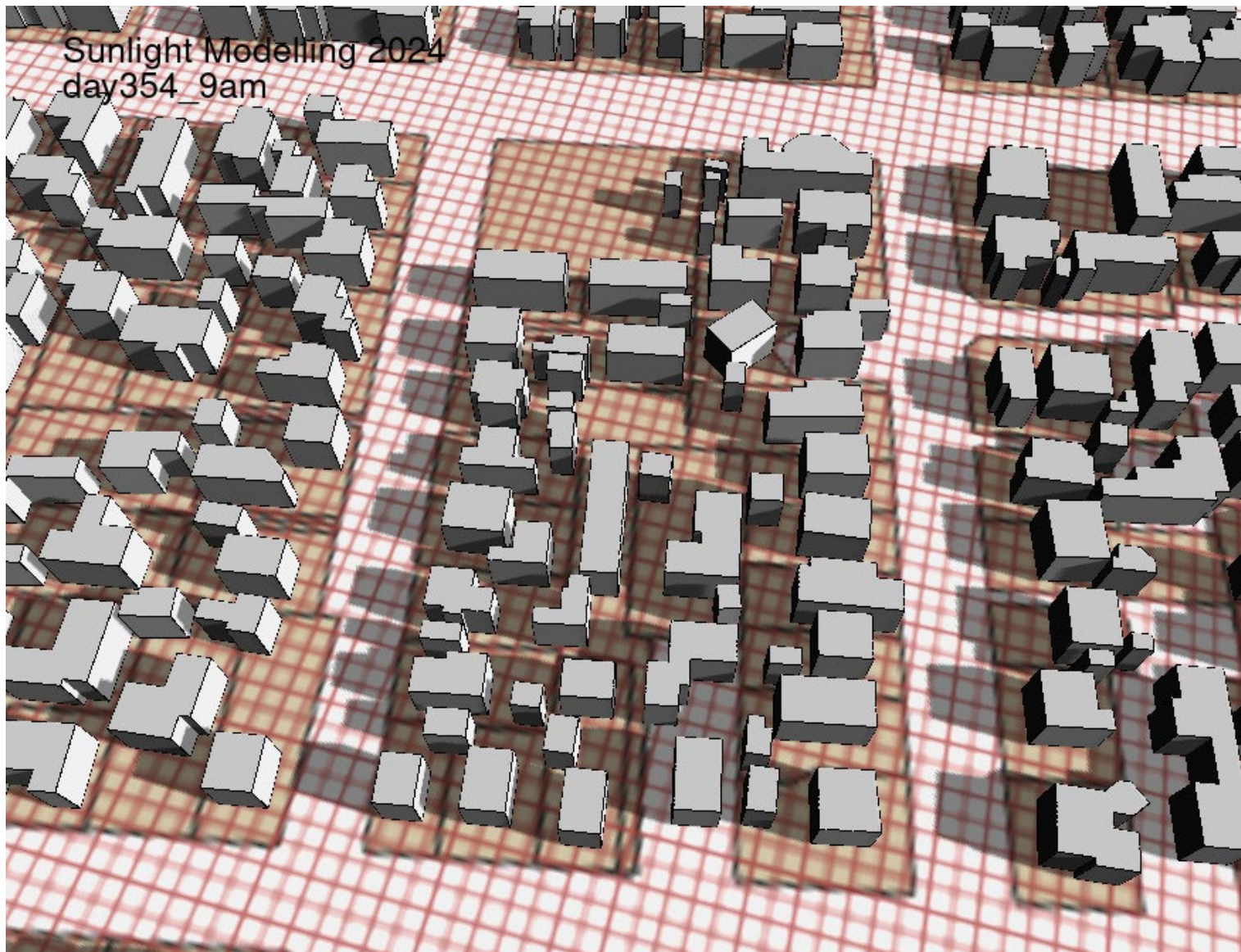
Summer Solstice (Day 354)

Three storey building heights (12m)

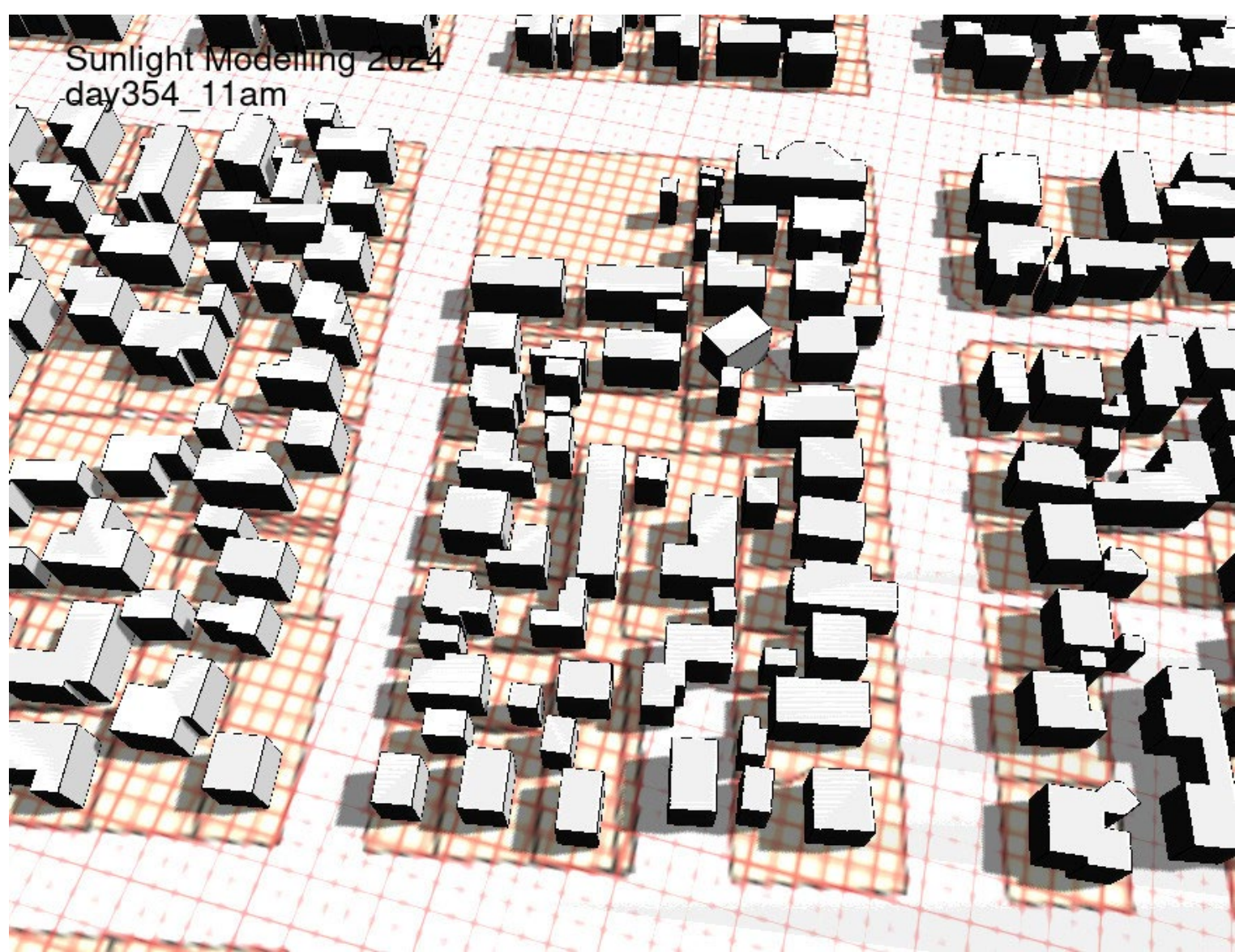
Sunlight Modelling 2024  
day354\_7am



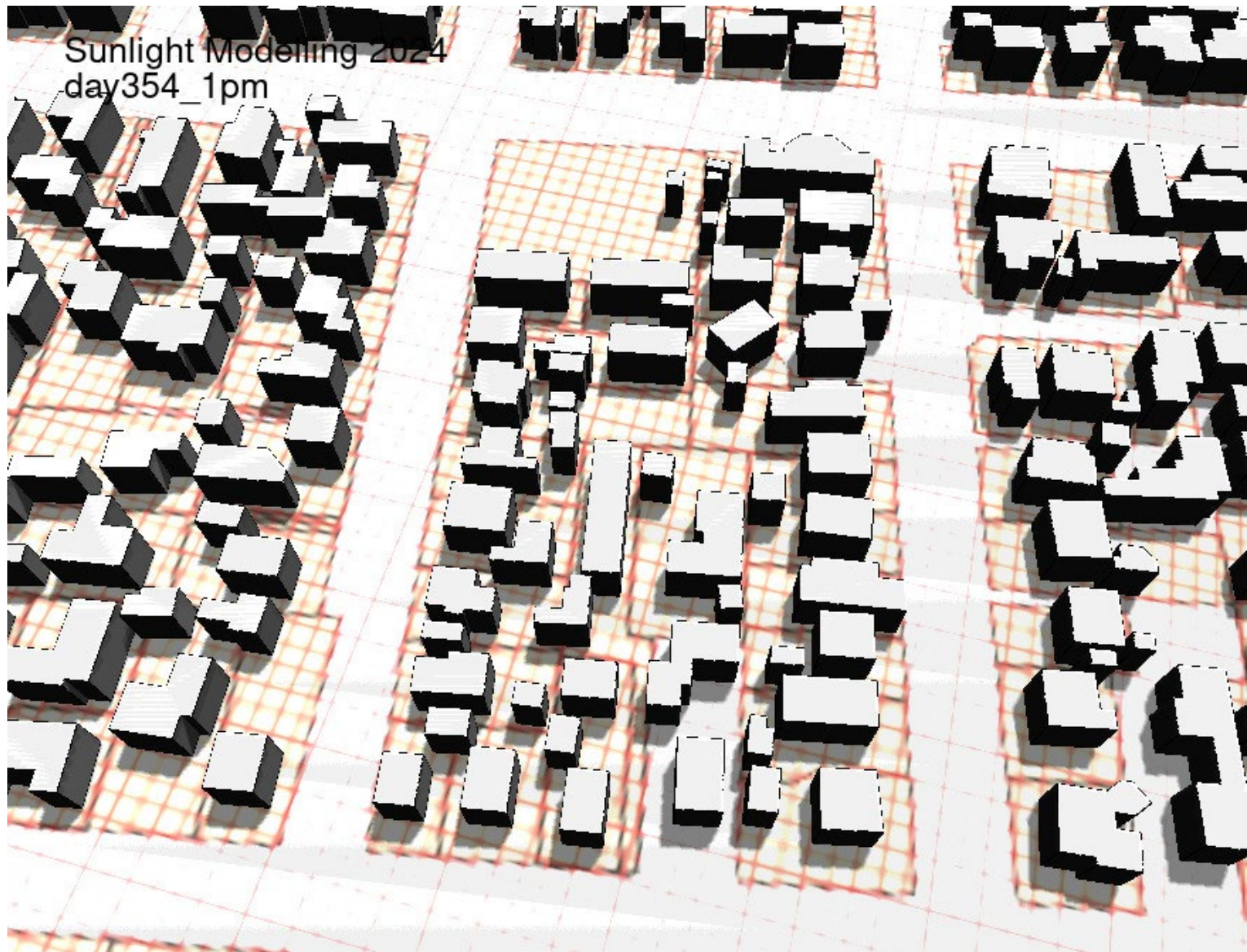
Sunlight Modelling 2024  
day354\_9am



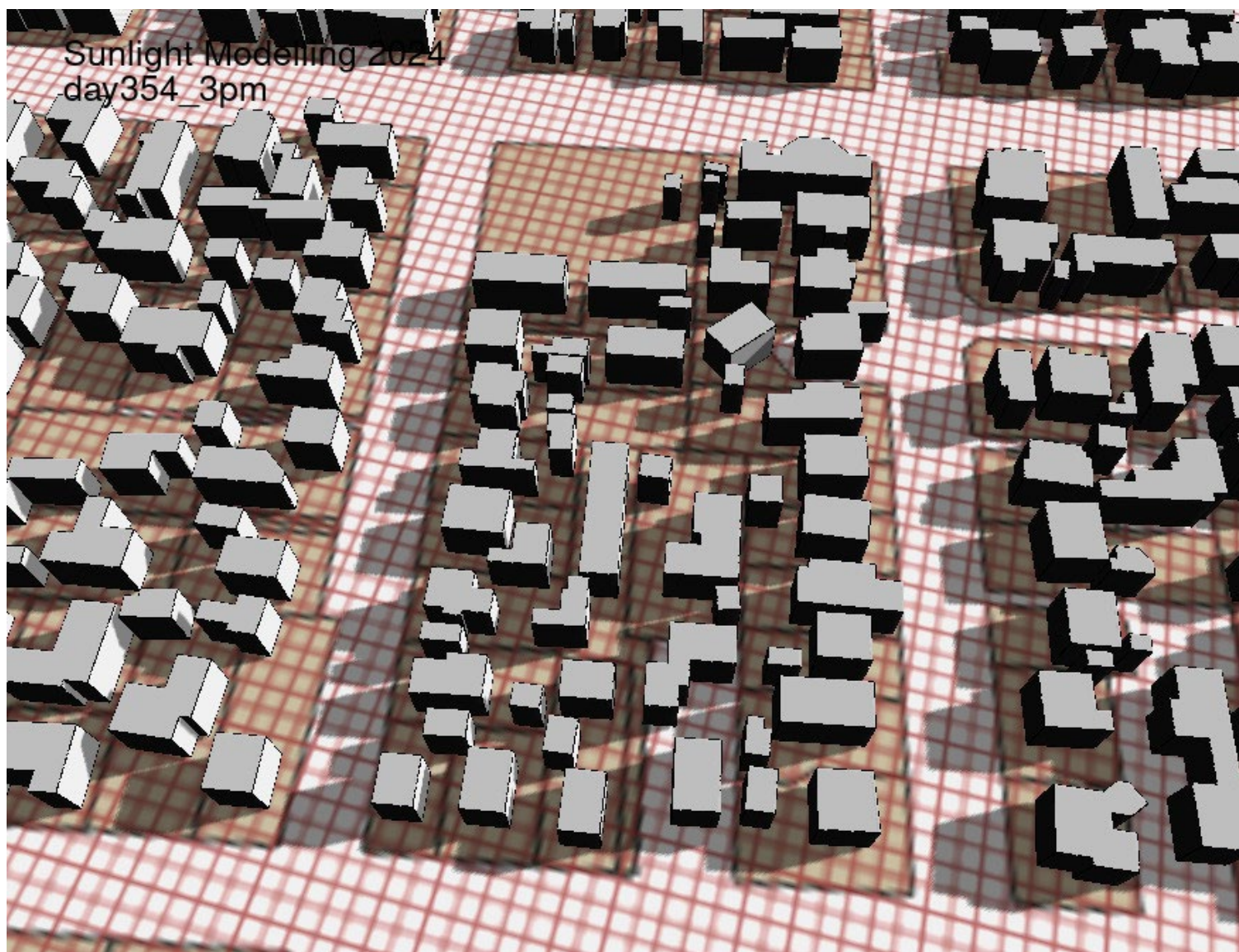
Sunlight Modelling 2024  
day354\_11am



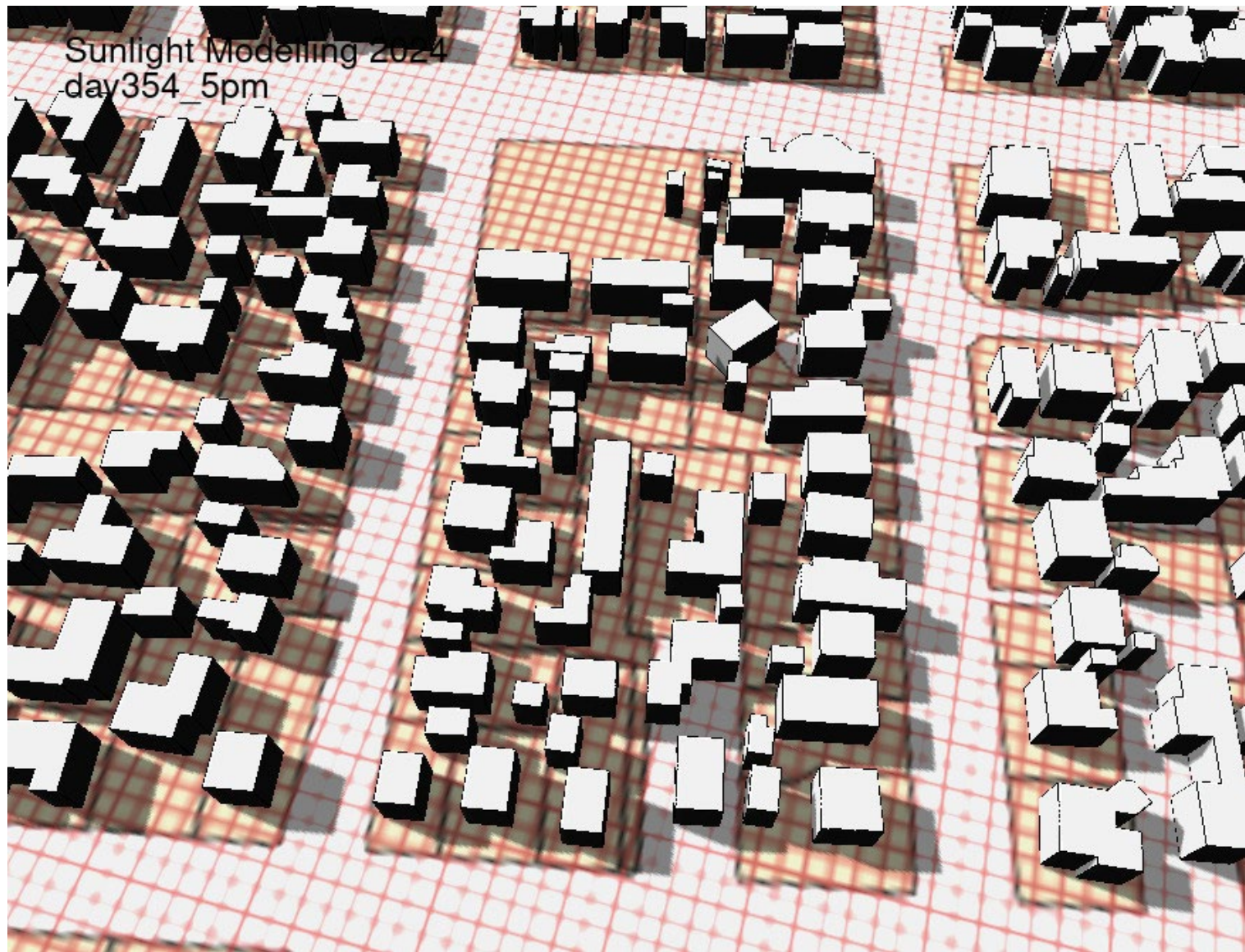
Sunlight Modelling 2024  
day354\_1pm



Sunlight Modelling 2024  
day354\_3pm



Sunlight Modelling 2024  
day354\_5pm



Sunlight Modelling 2024  
day354\_7pm

