



MIKROCLIMATE DESIGN

Starkstad.

Seth von Dardel







0 - 3,5 m/s



3,5 - 8 m/s



8 - 14 m/s

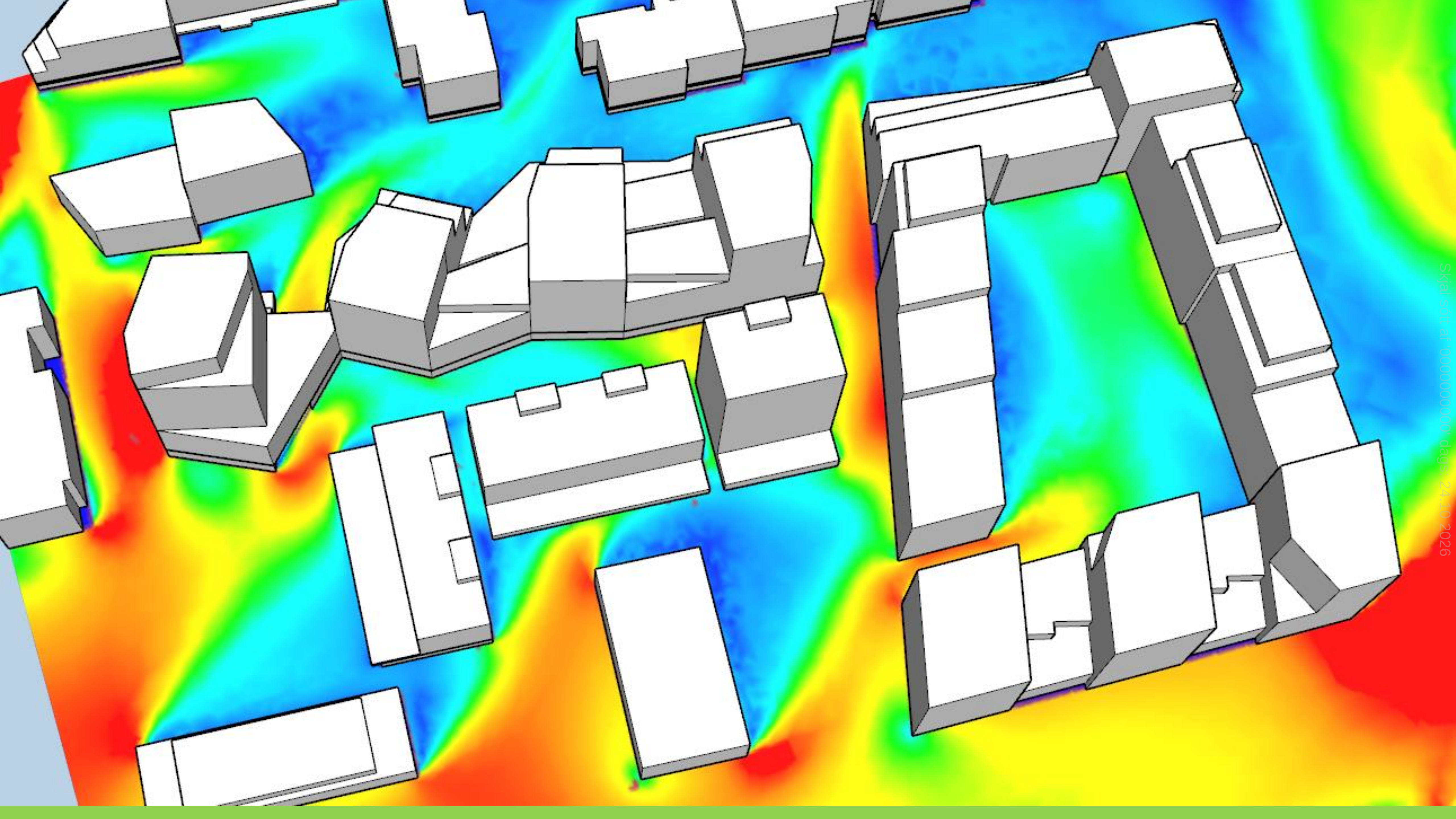


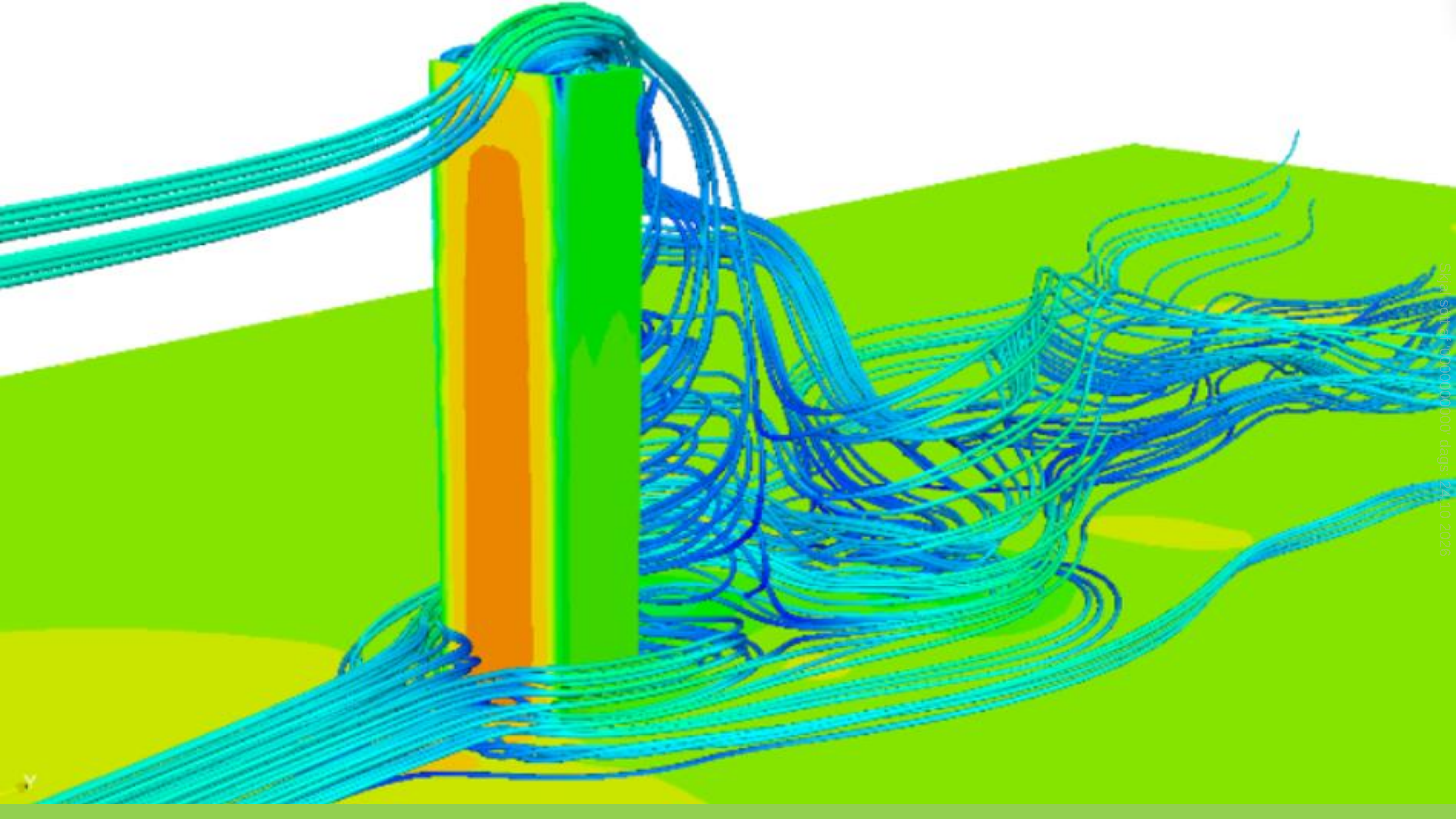
14 - 21 m/s

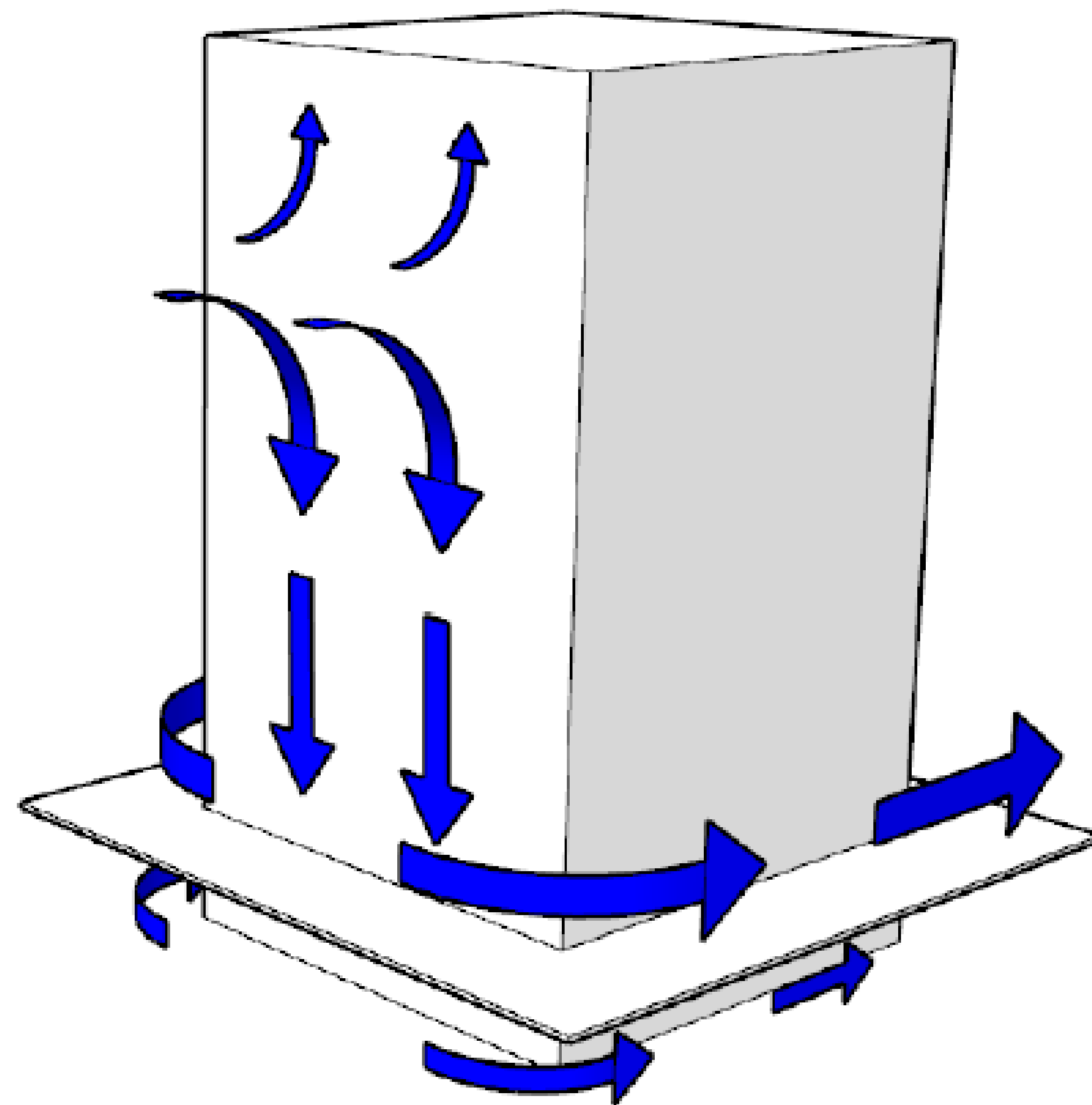
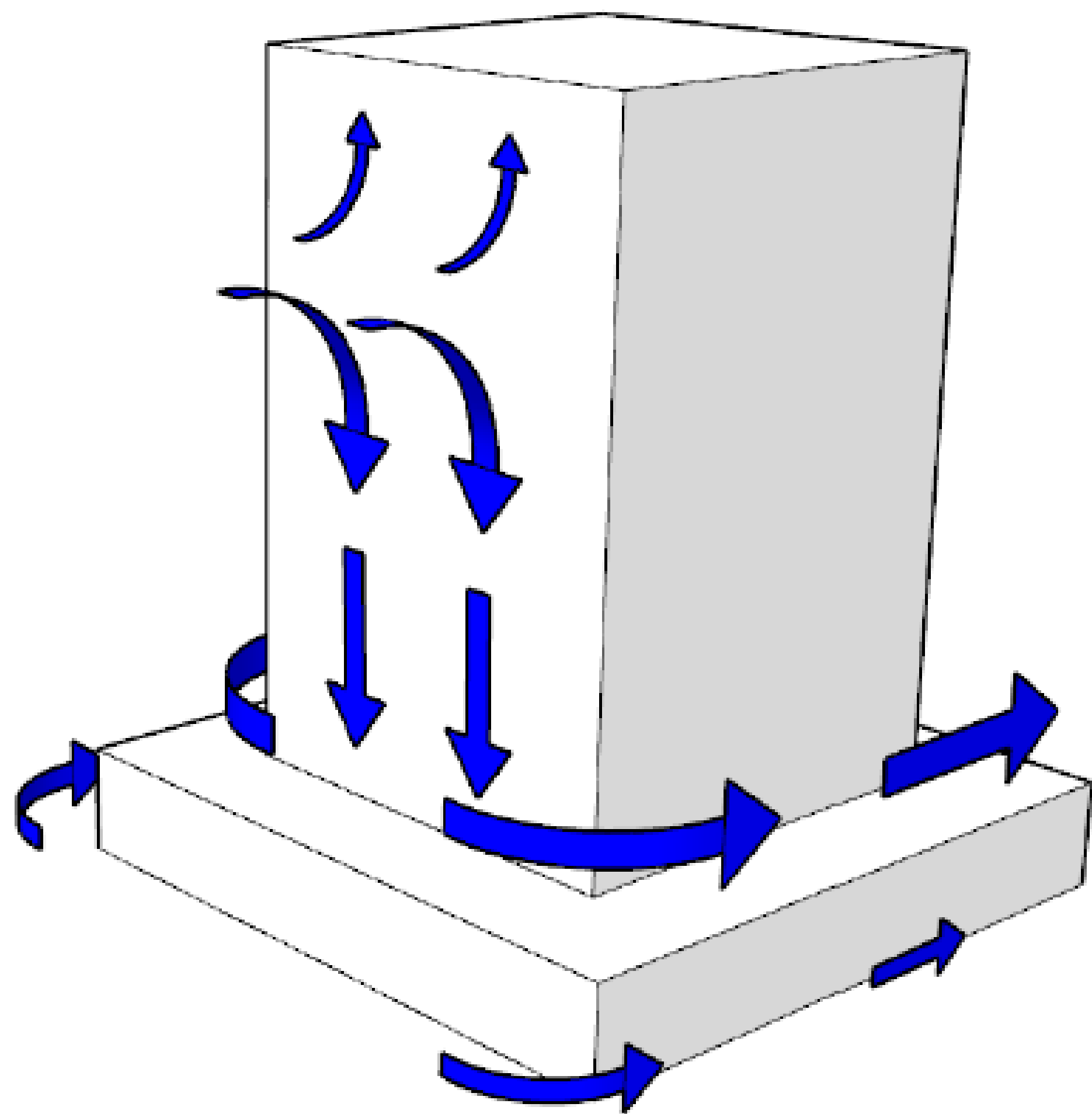
Mean velocity Fannborg: 6,0 m/s

Outdoor environment	Percentage of year with wind velocity > 5 m/s
Pedestrian and bike path	50%
Plazas and bus stops	20%
Outdoor seatings, playgrounds	0,50%

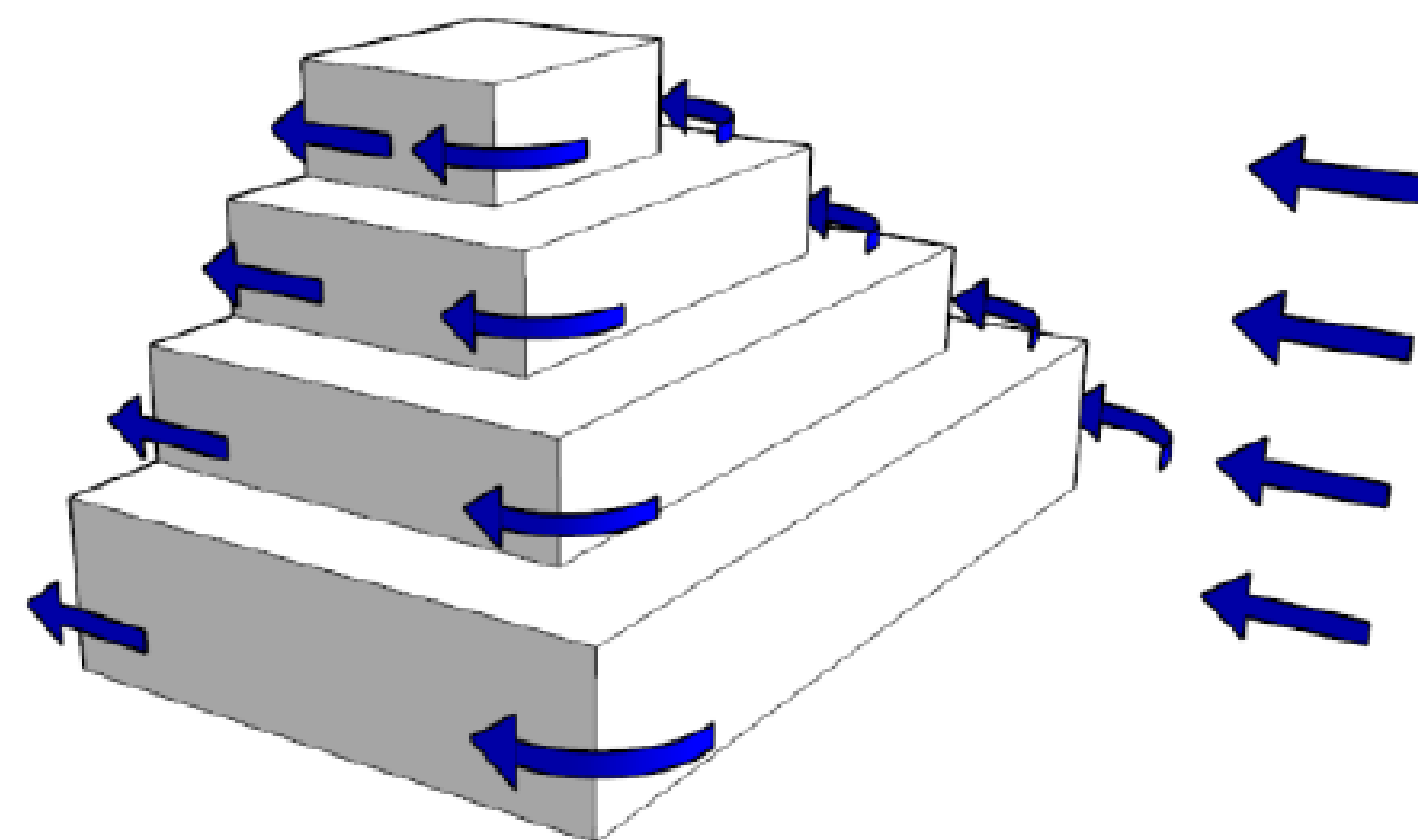
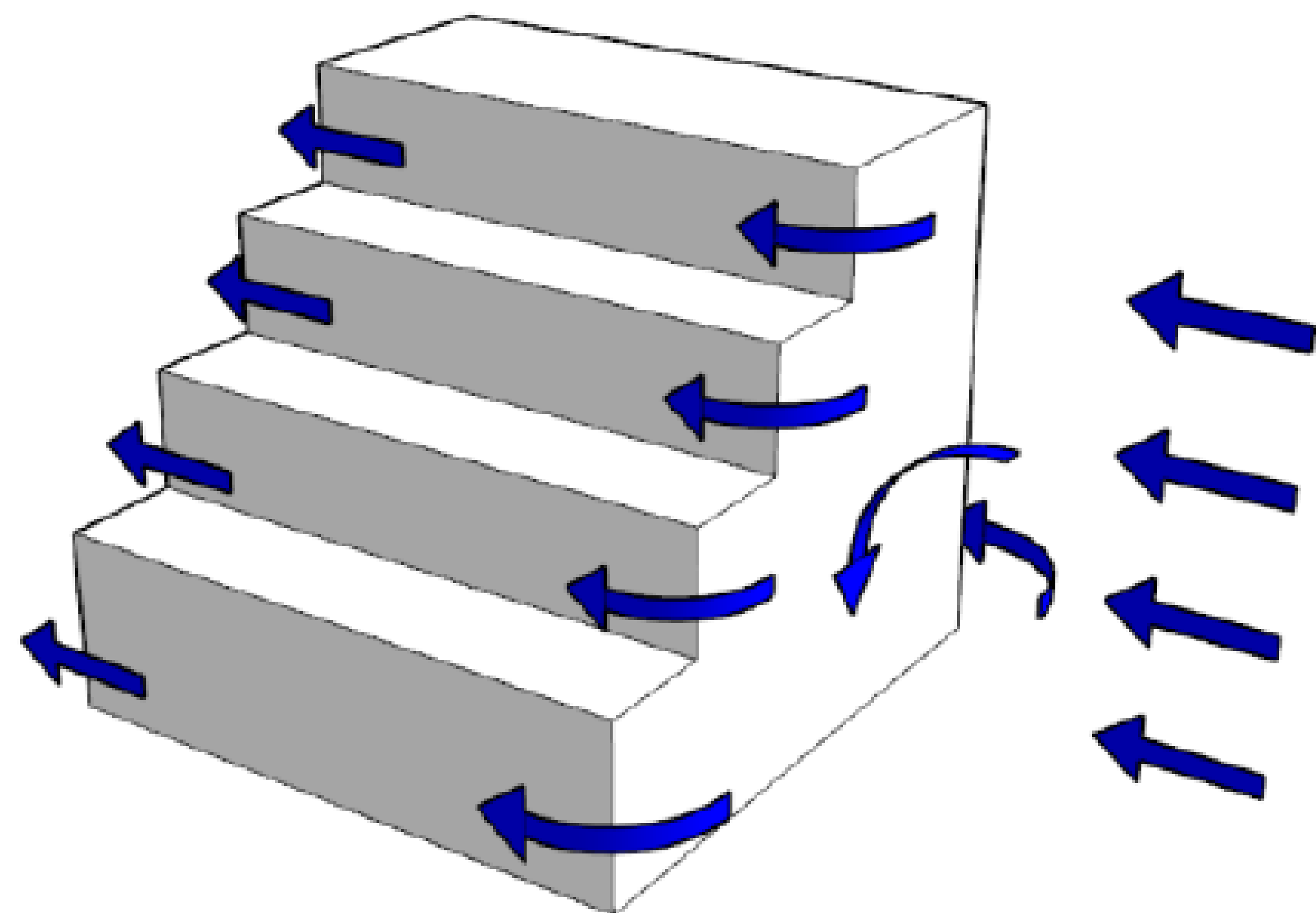
**Solar access: 5 hours per day at spring and autumnal equinox
+ particular hours**



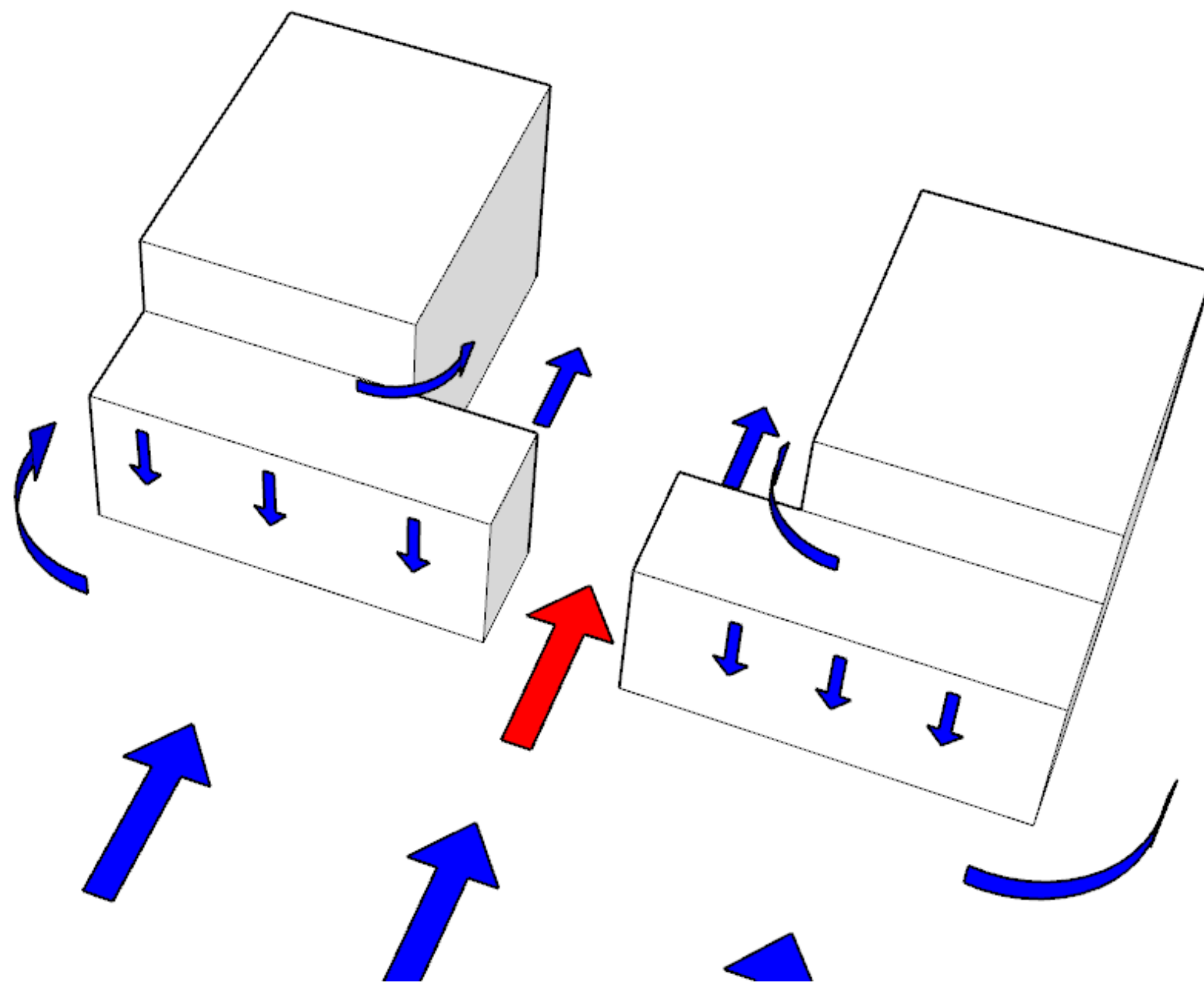
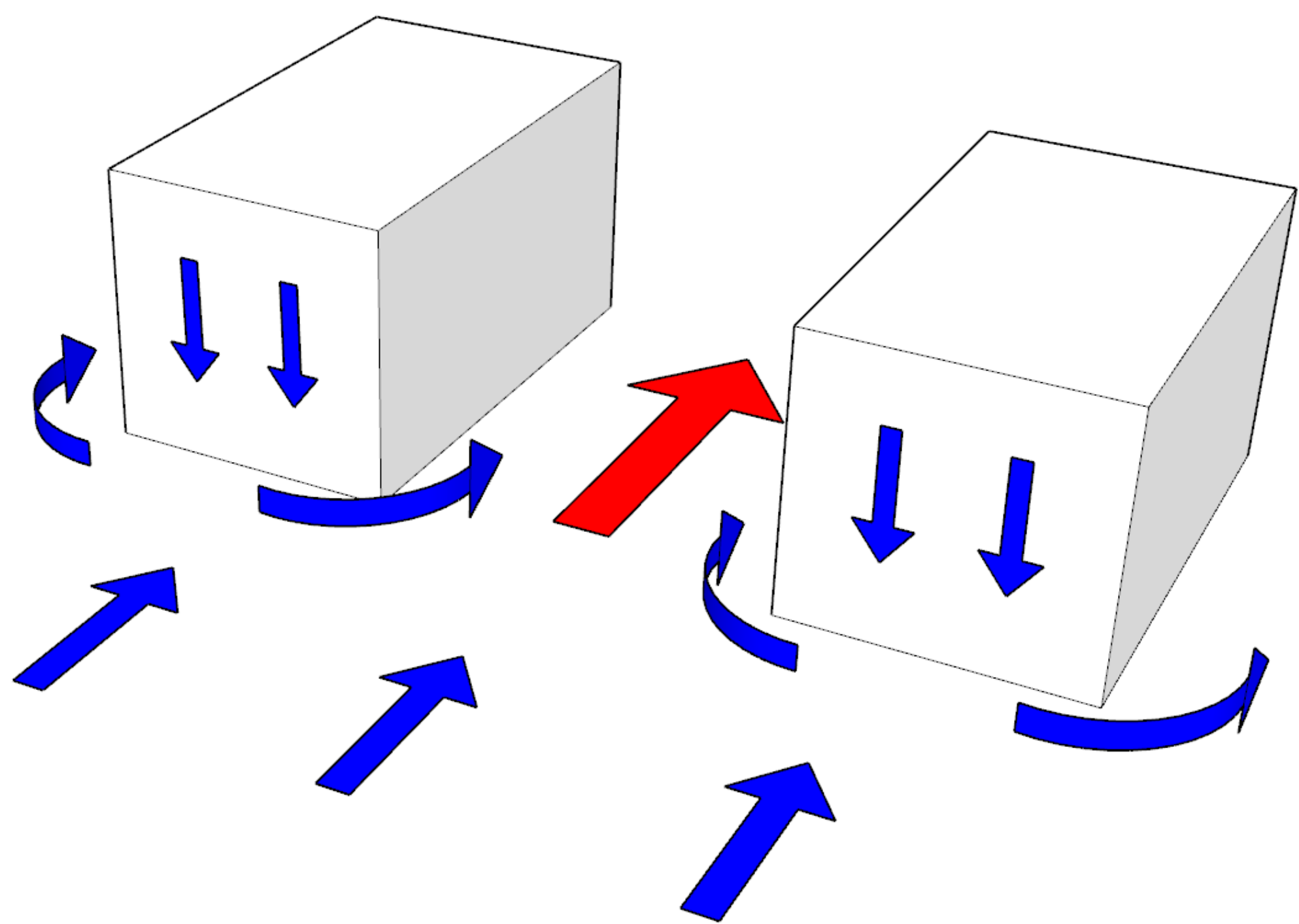


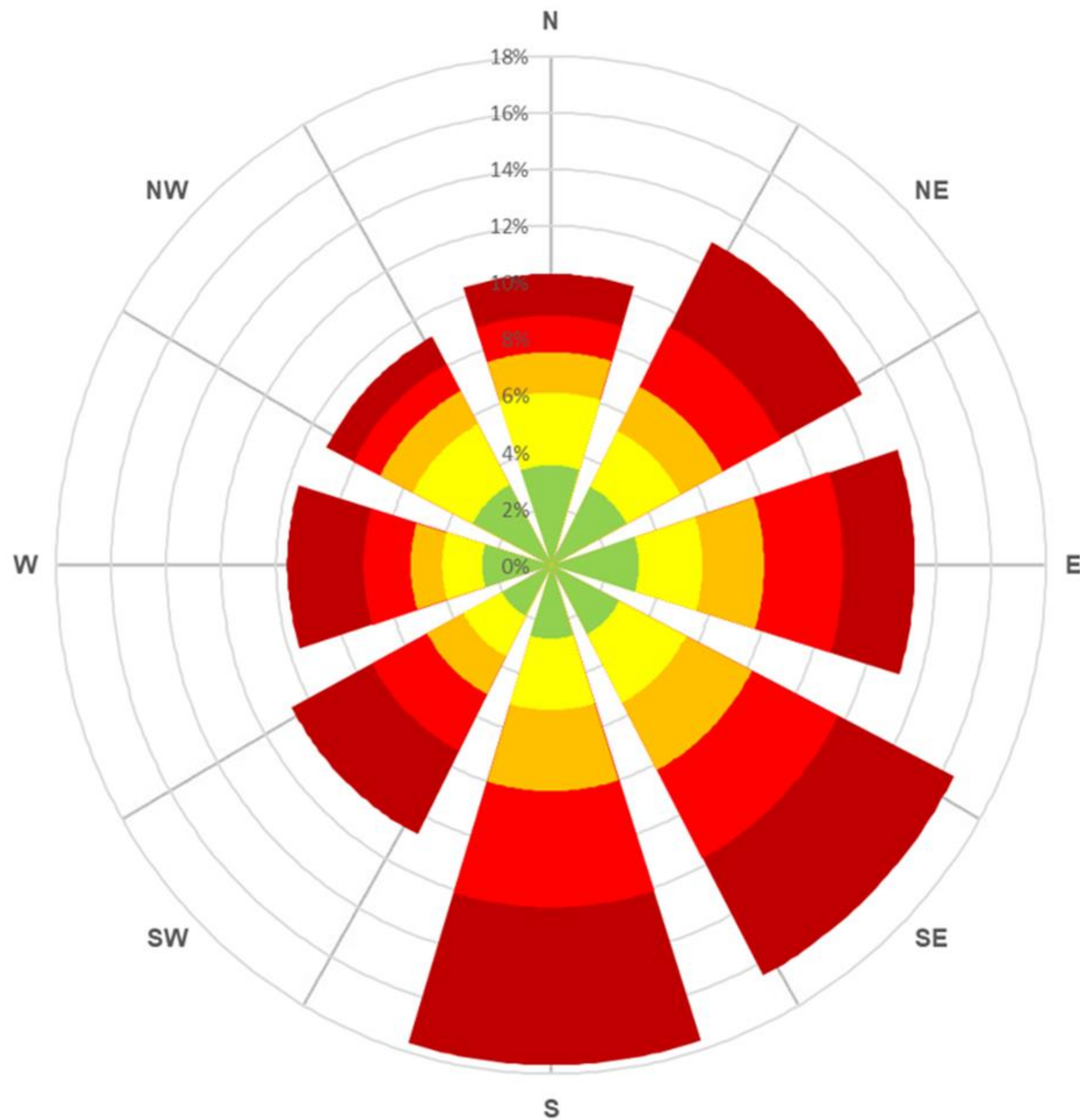


Vinddesign



Vinddesign



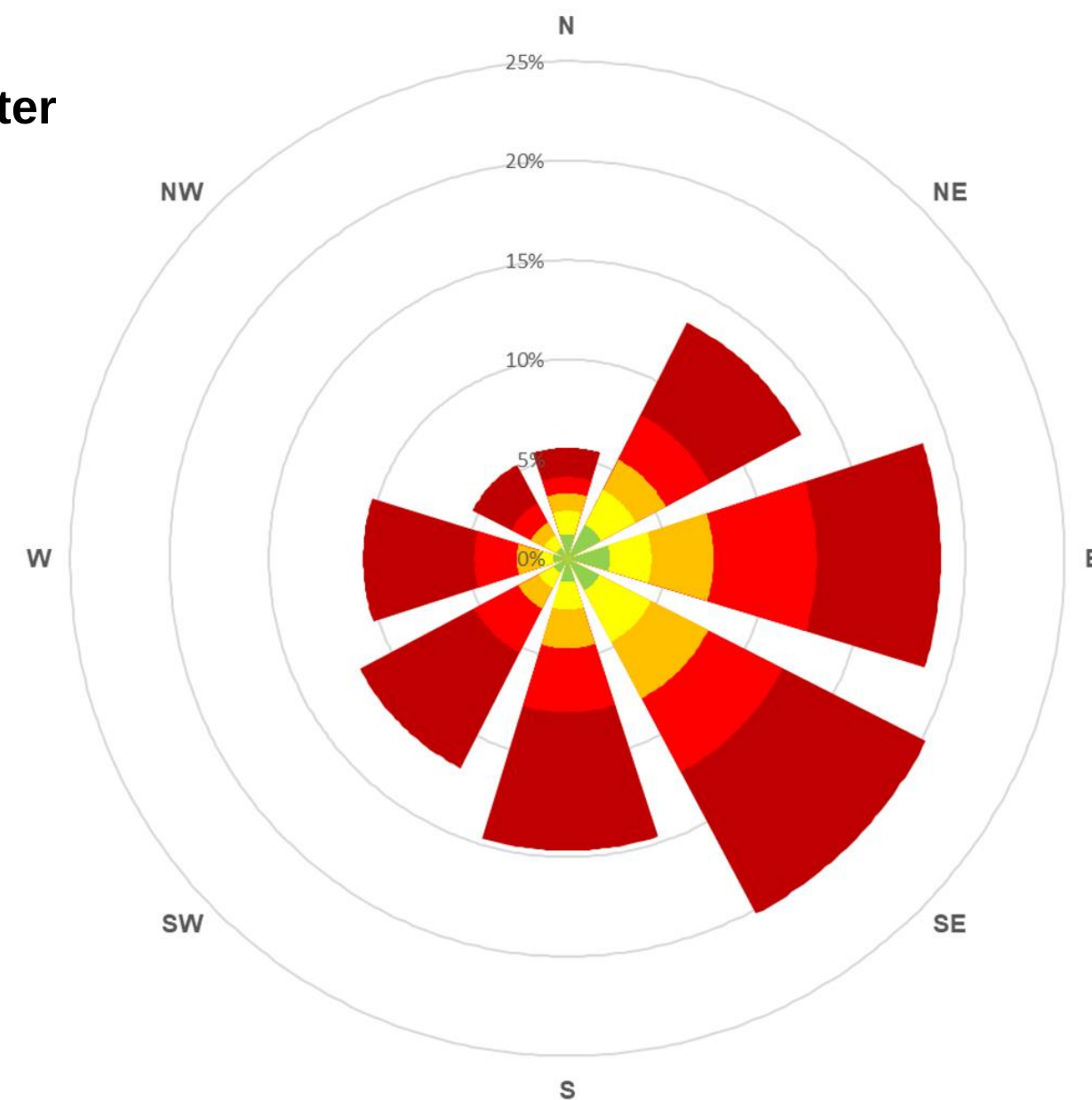


**Vindhastighet
m/s**

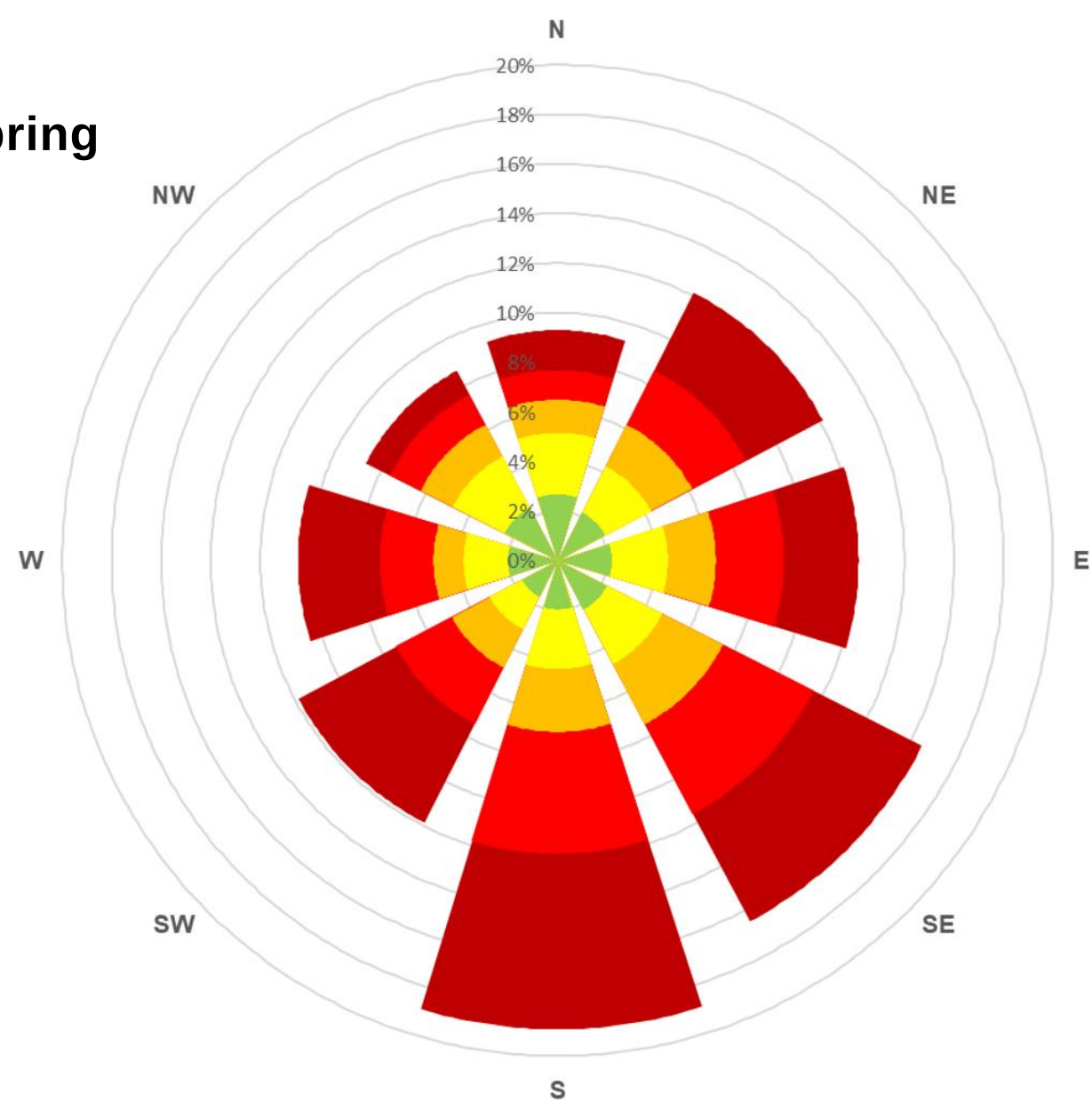


Kopavogur, 2008-2021

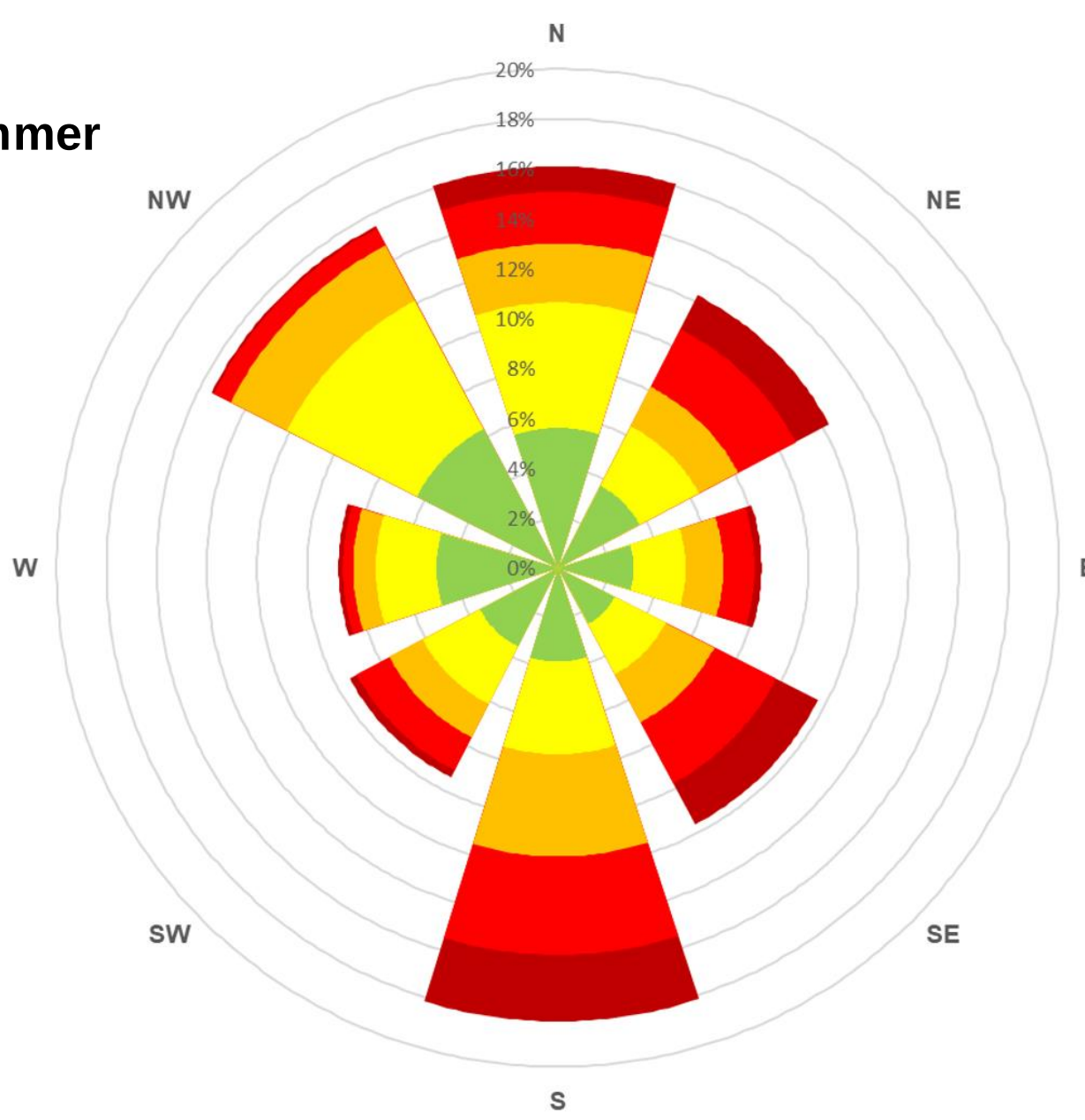
Winter



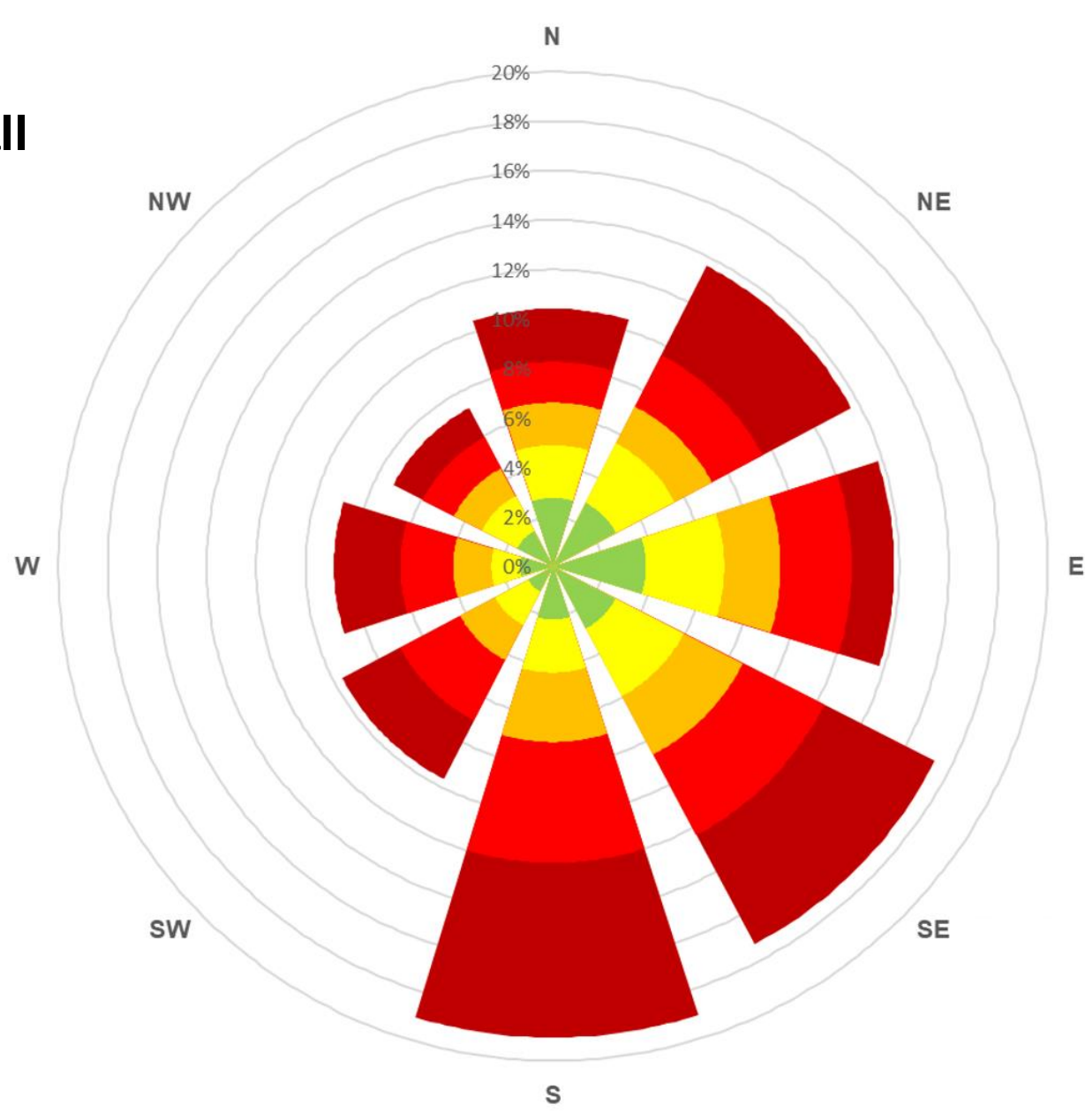
Spring



Summer

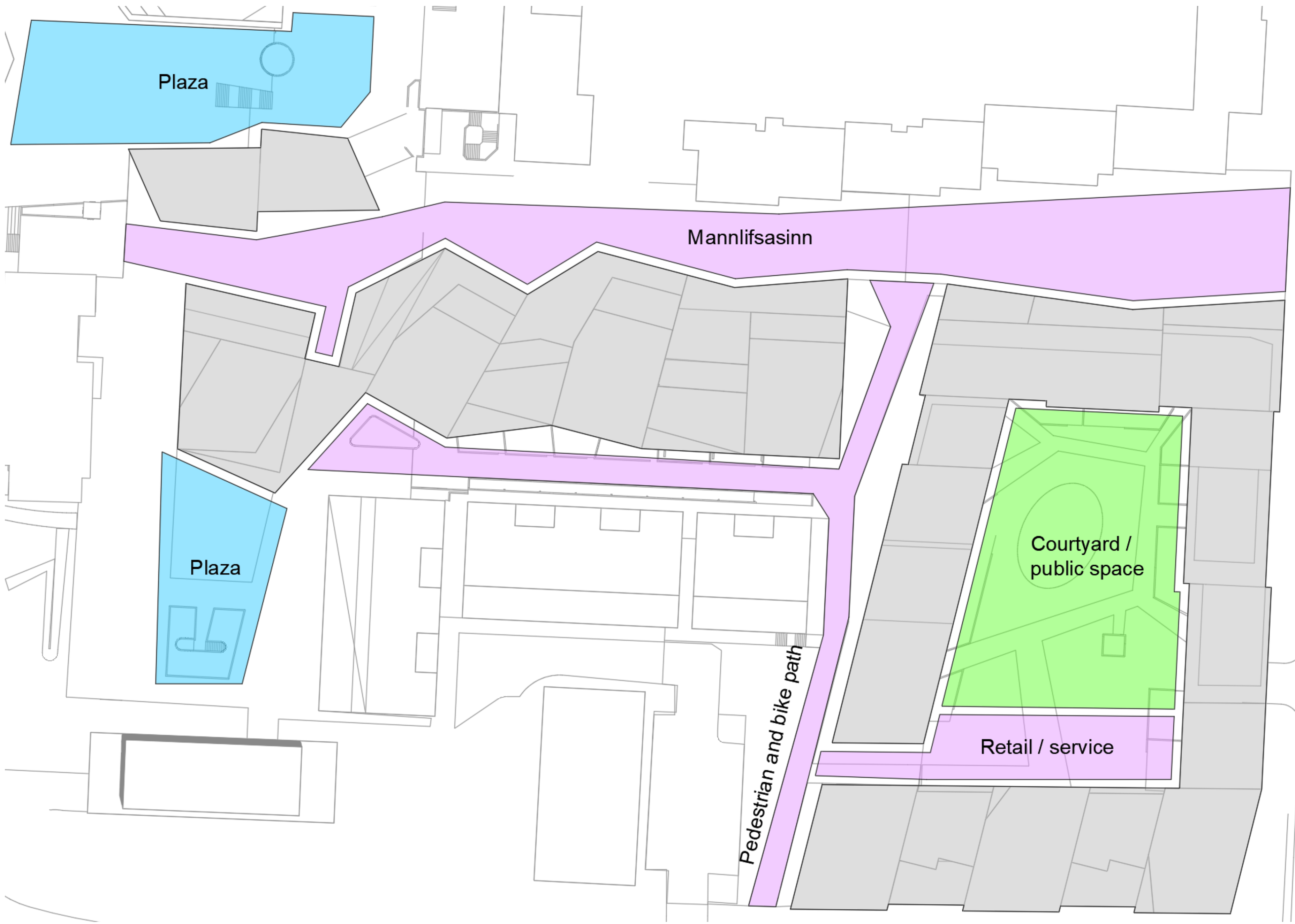


Fall

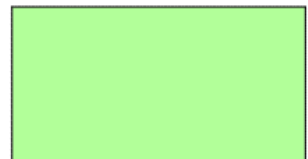


Vindhastighet
m/s



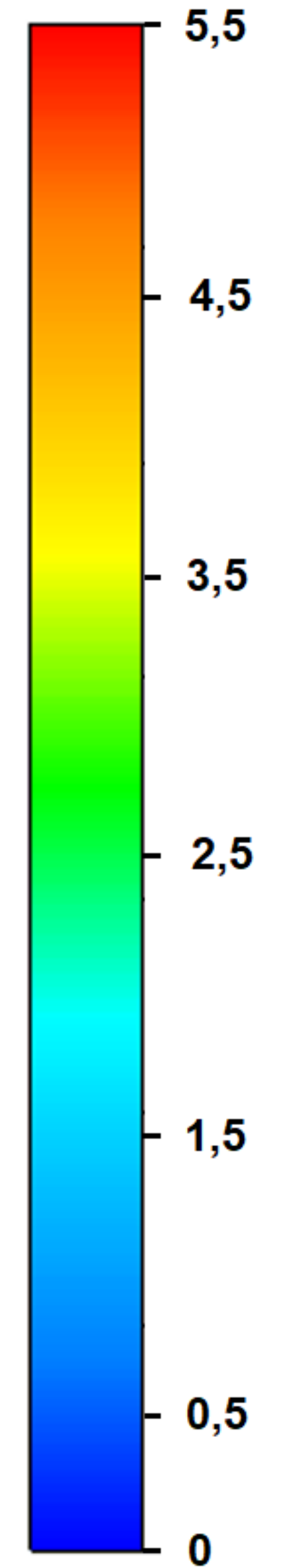
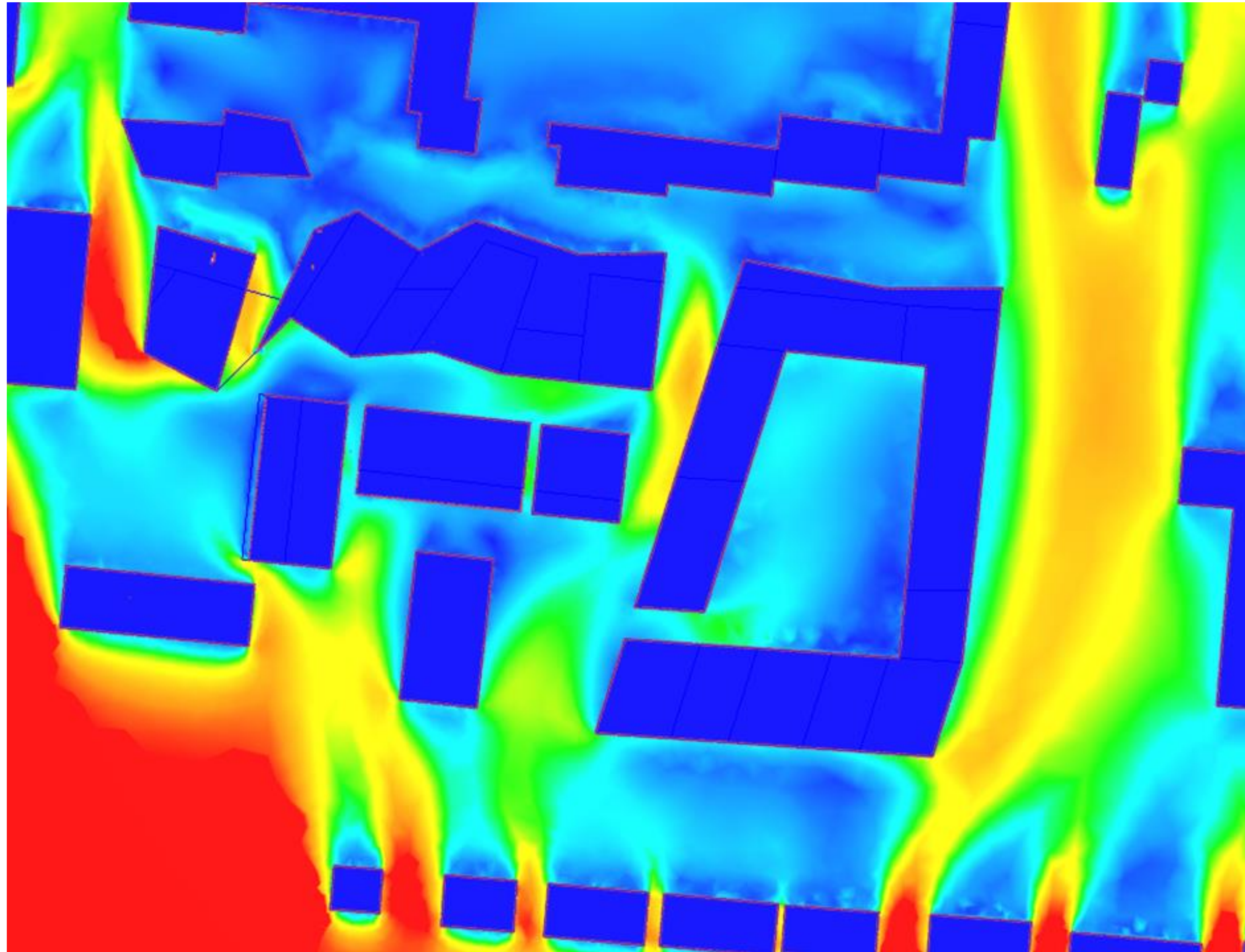
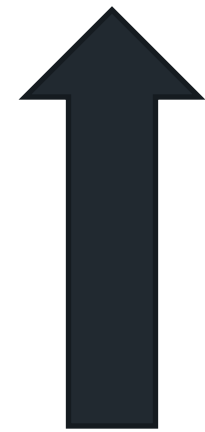


Importance of good micro climate

-  Movement, medium importance
-  Sitting and playgrounds, Crucial
-  Sitting long periods of time, Crucial

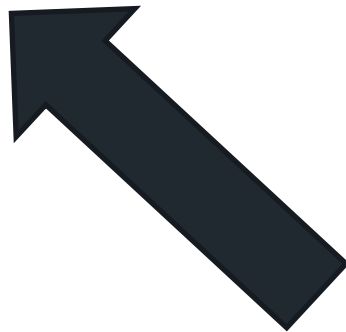
For sitting and recreation solar access is highest priority

South

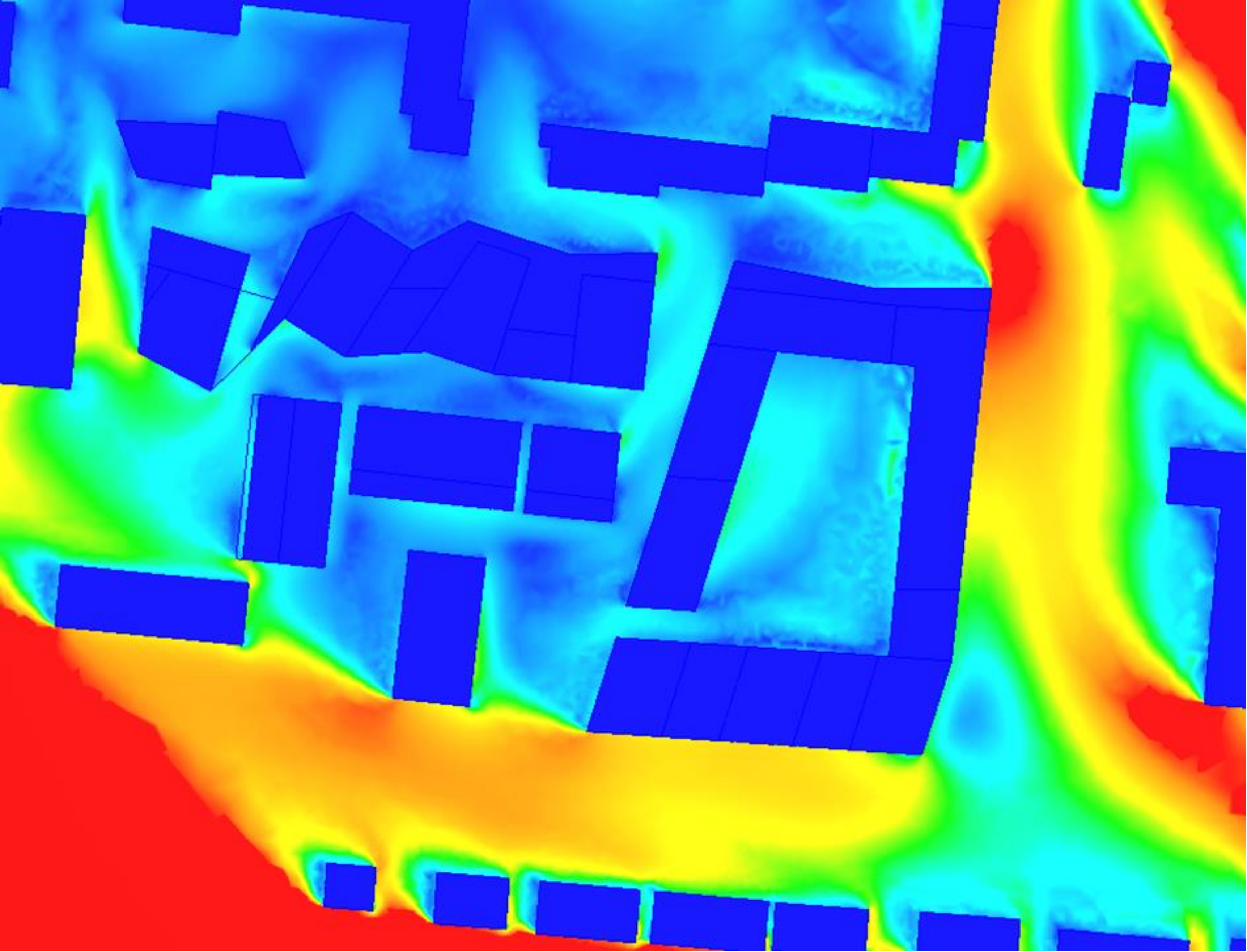


Mean vel: 6,8 m/s
Frequency: 18 %

Southeast



Mean vel: 6,7 m/s
 Frequency: 17 %

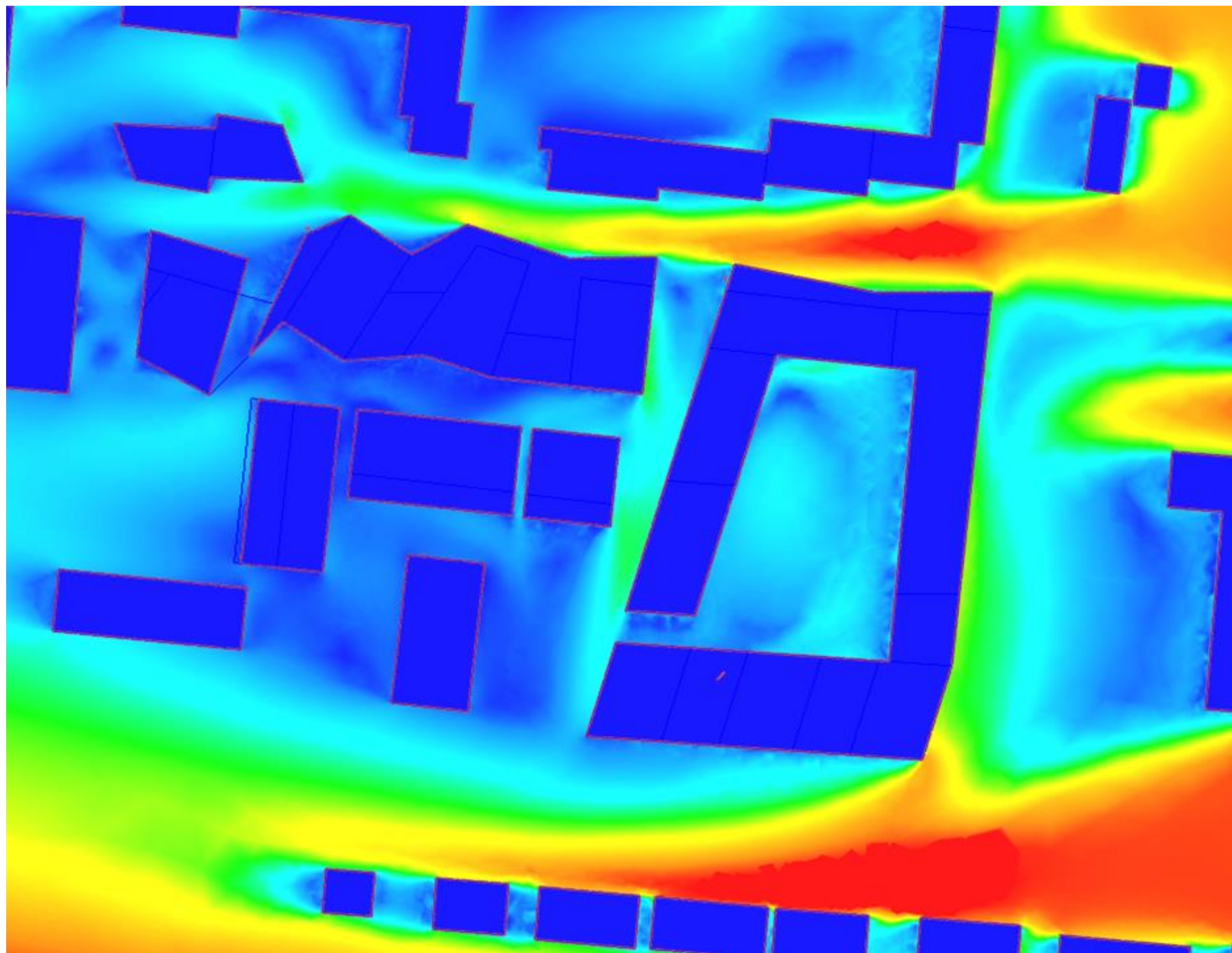


Skjal sótt af '00000000000' dags: 24.10 2026

East

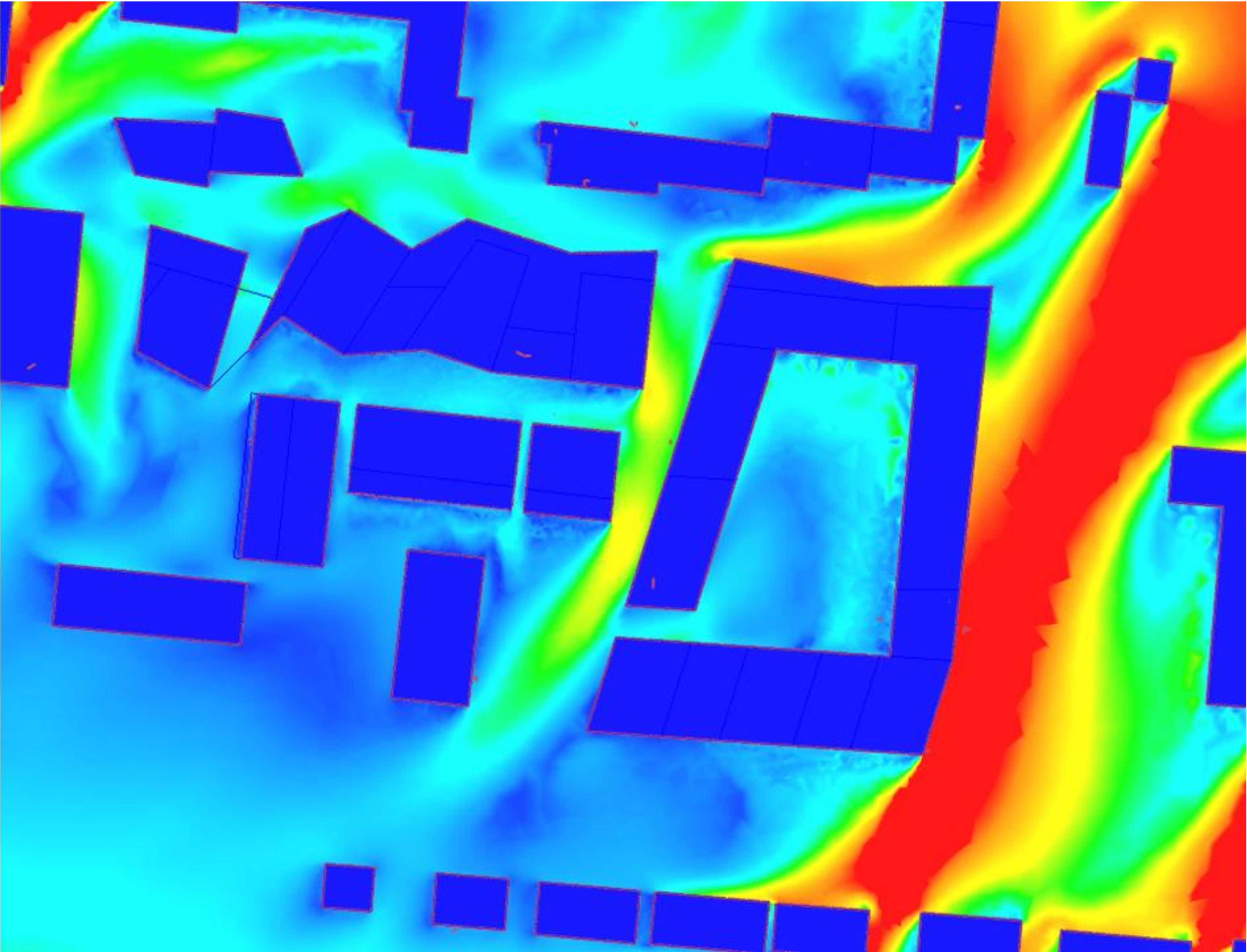
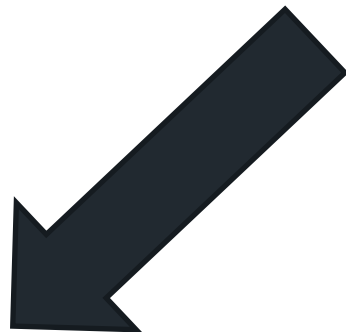


Mean vel: 5,5 m/s
Frequency: 13 %



Skjal sótt af '0000000000' dags: 24.10 2026

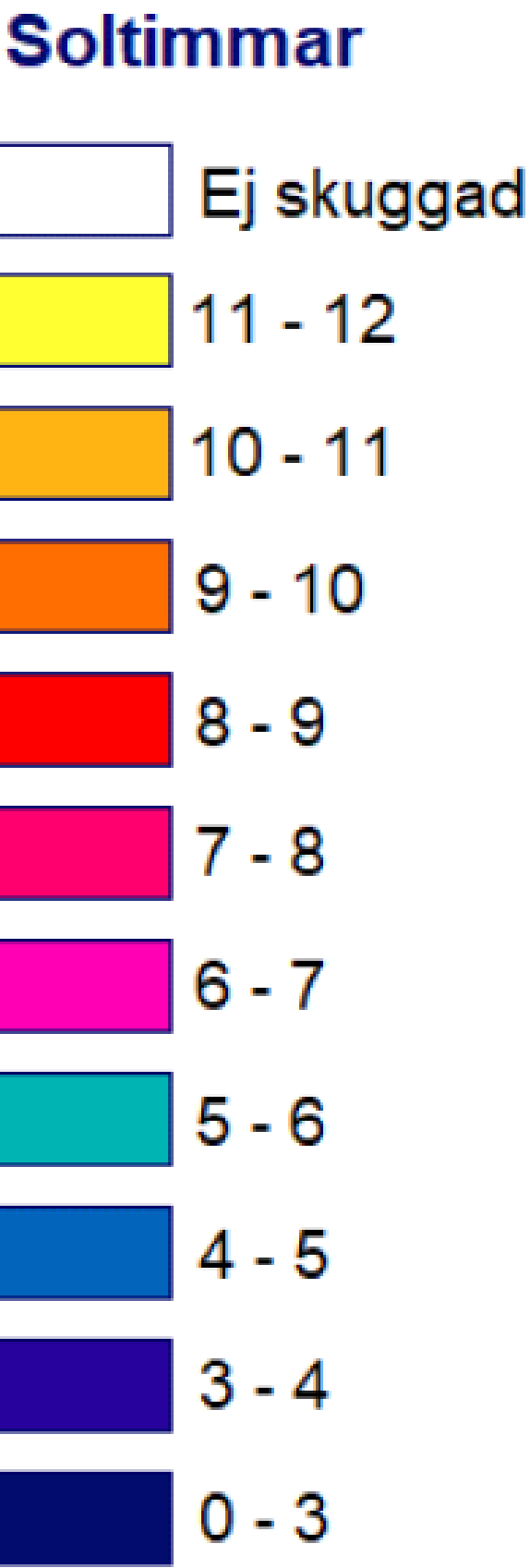
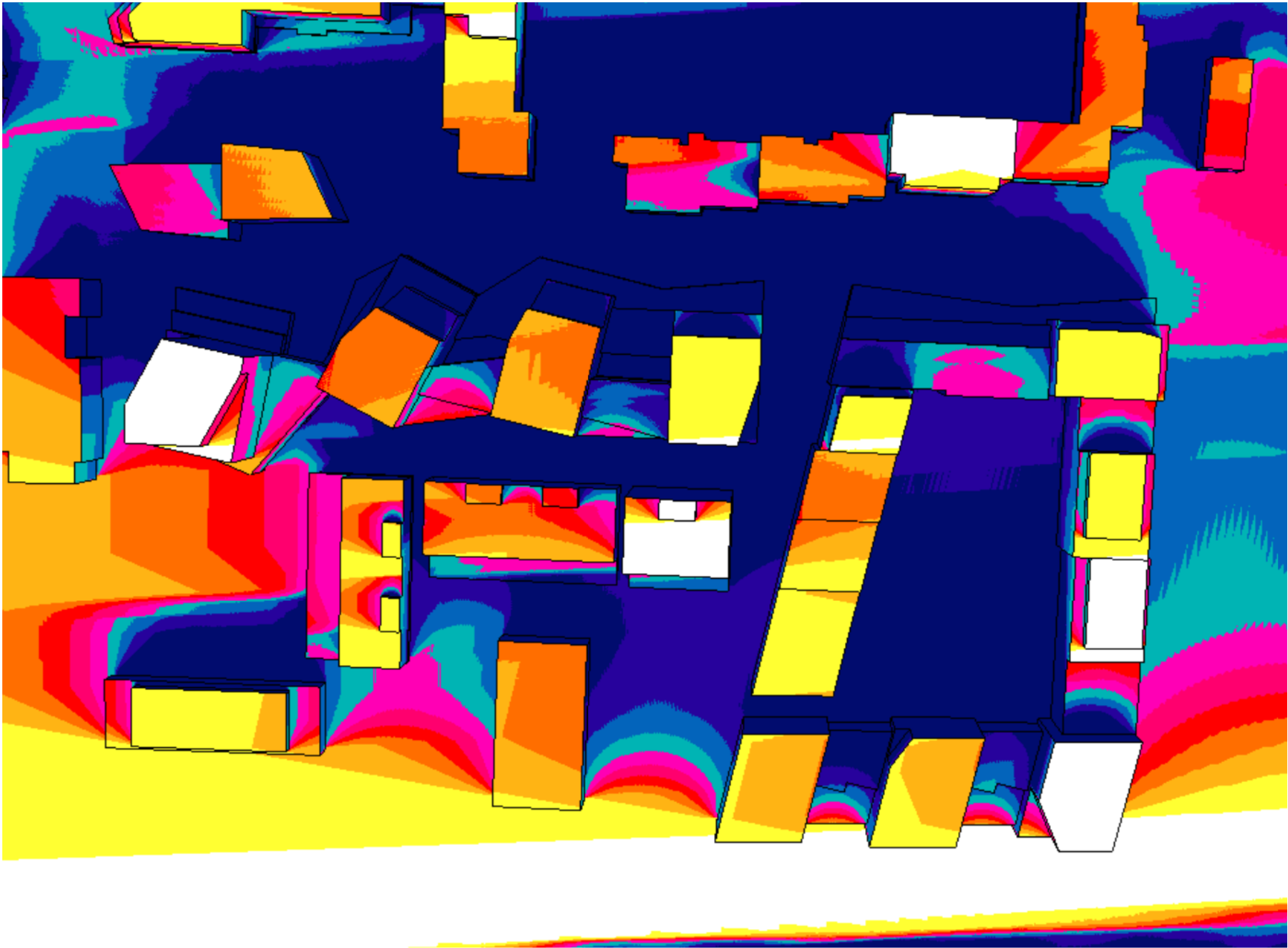
Northeast

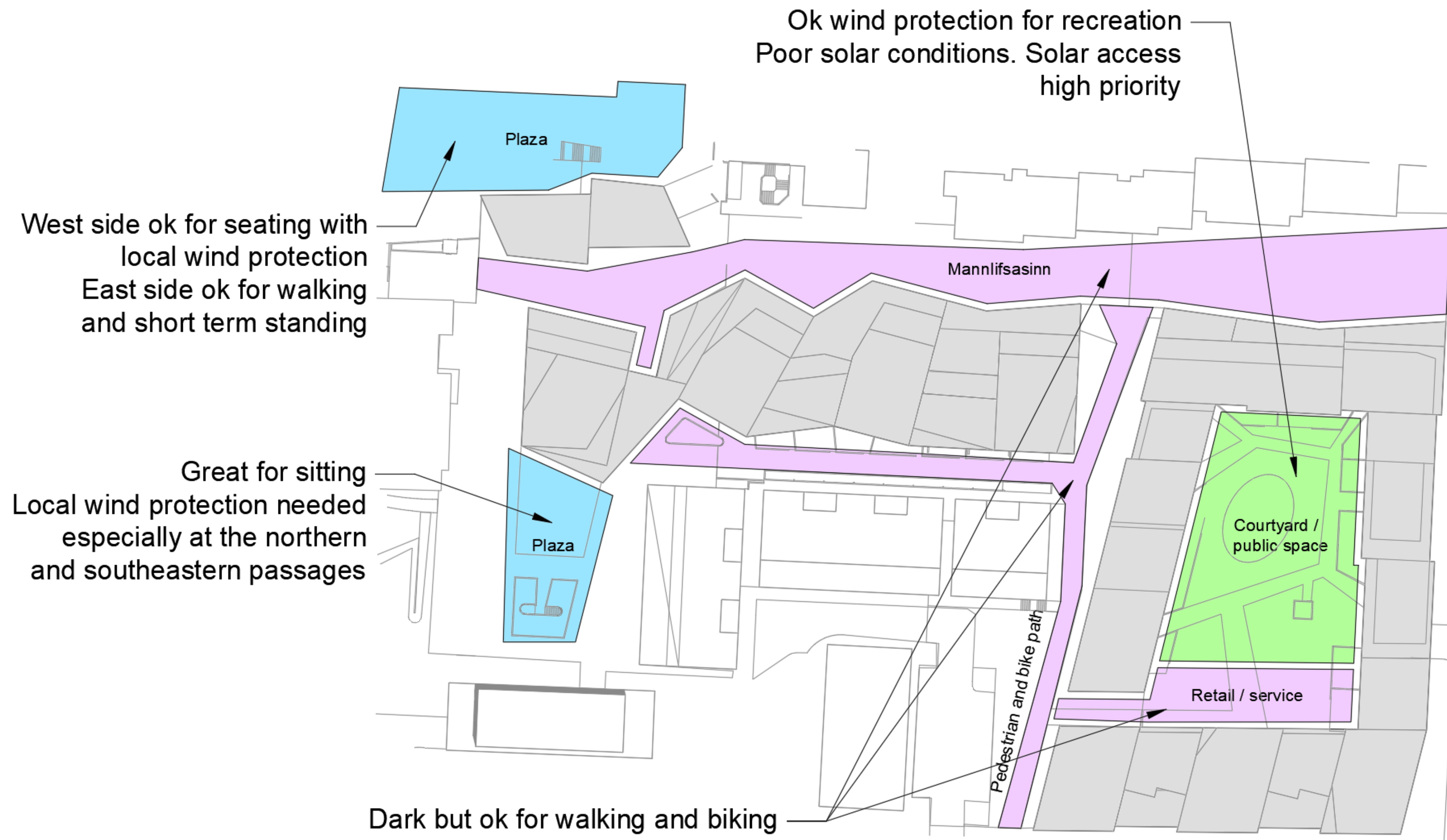


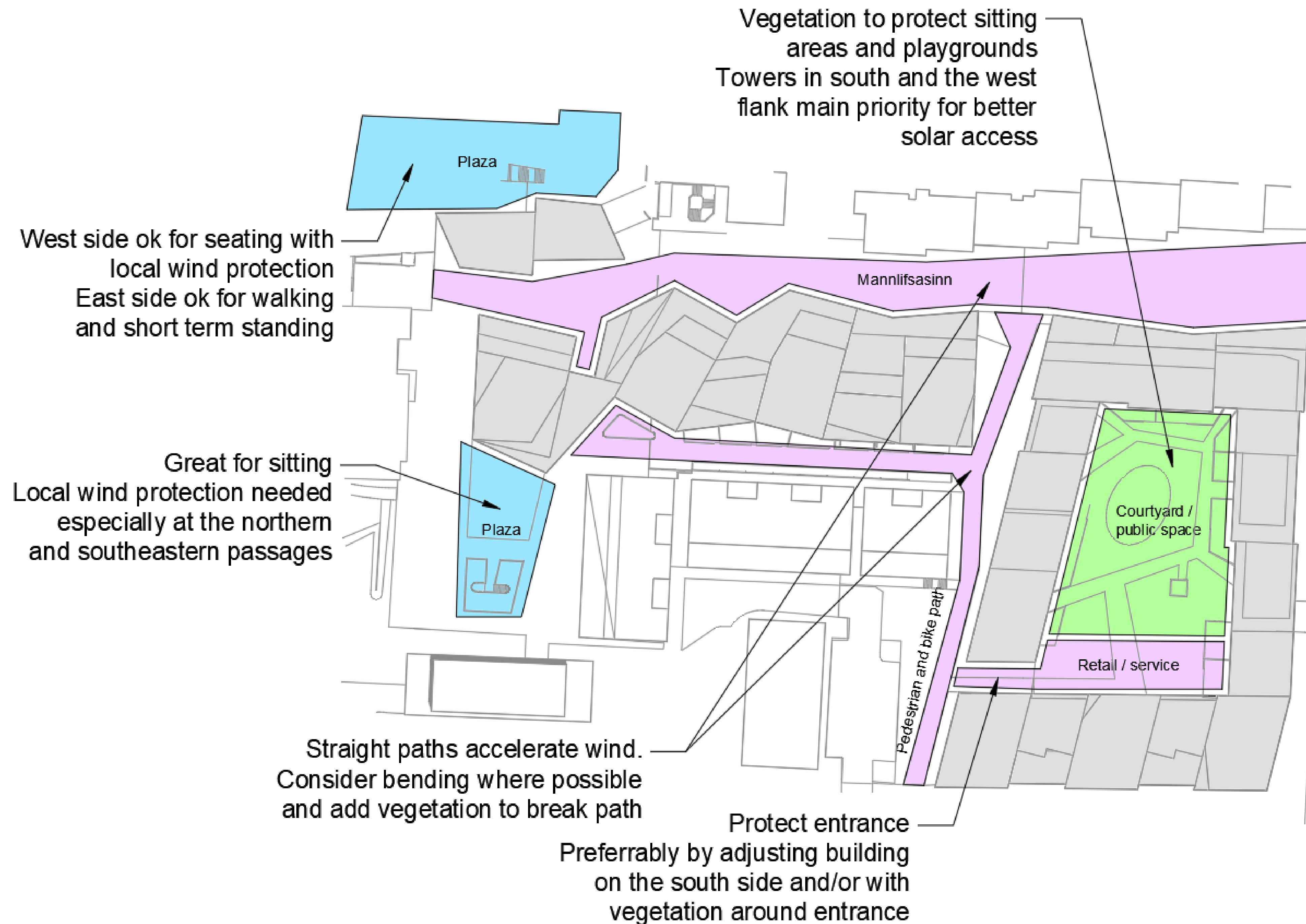
Skjal sótt af '0000000000' dags: 24.10 2026

Mean vel: 6,1 m/s
Frequency: 13 %

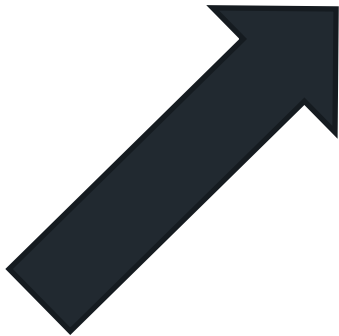
Spring equinox



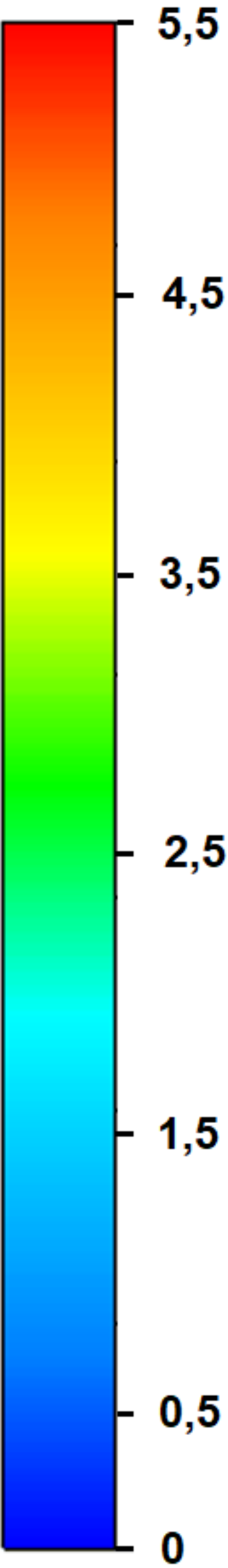
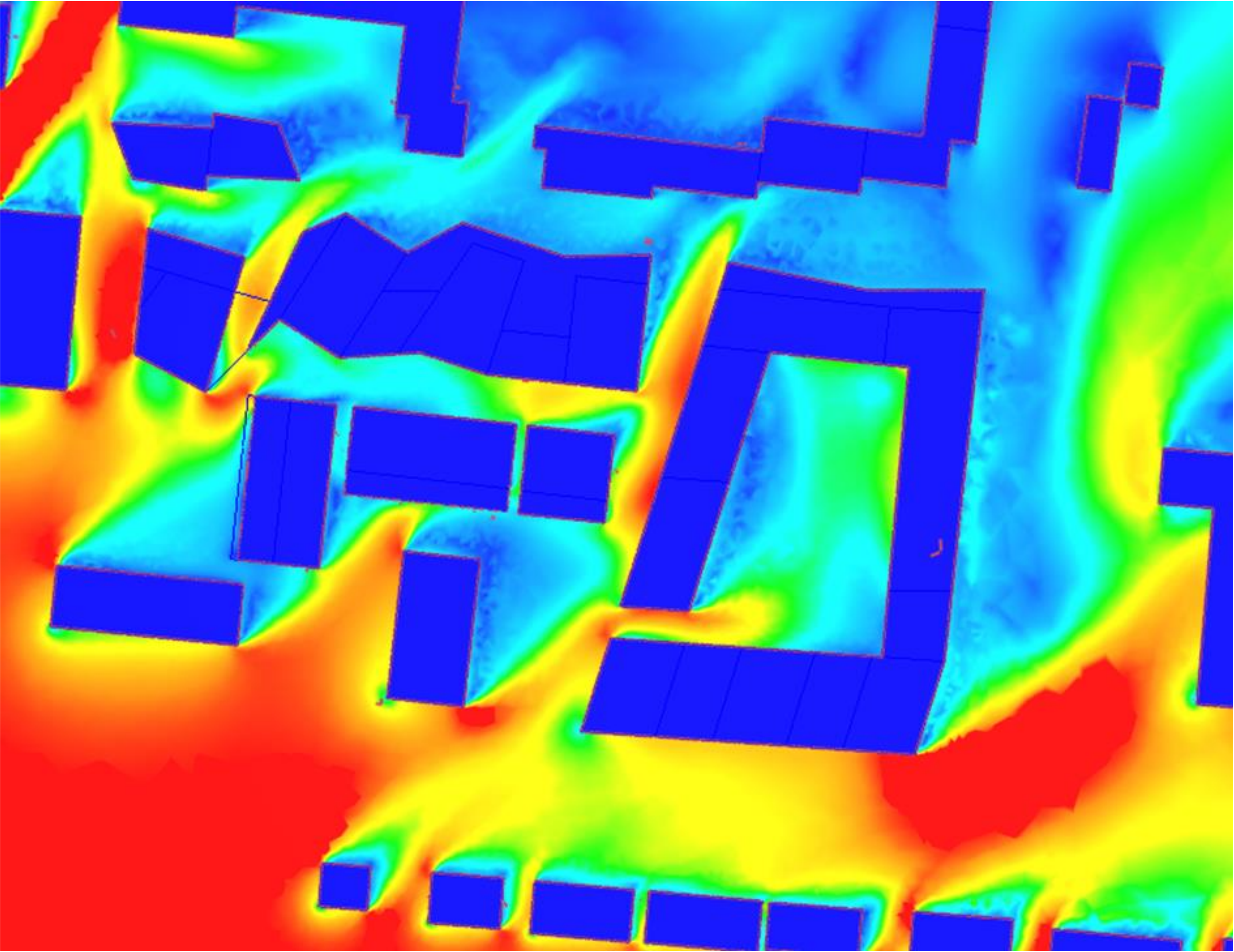




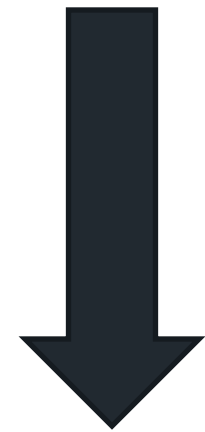
Southwest



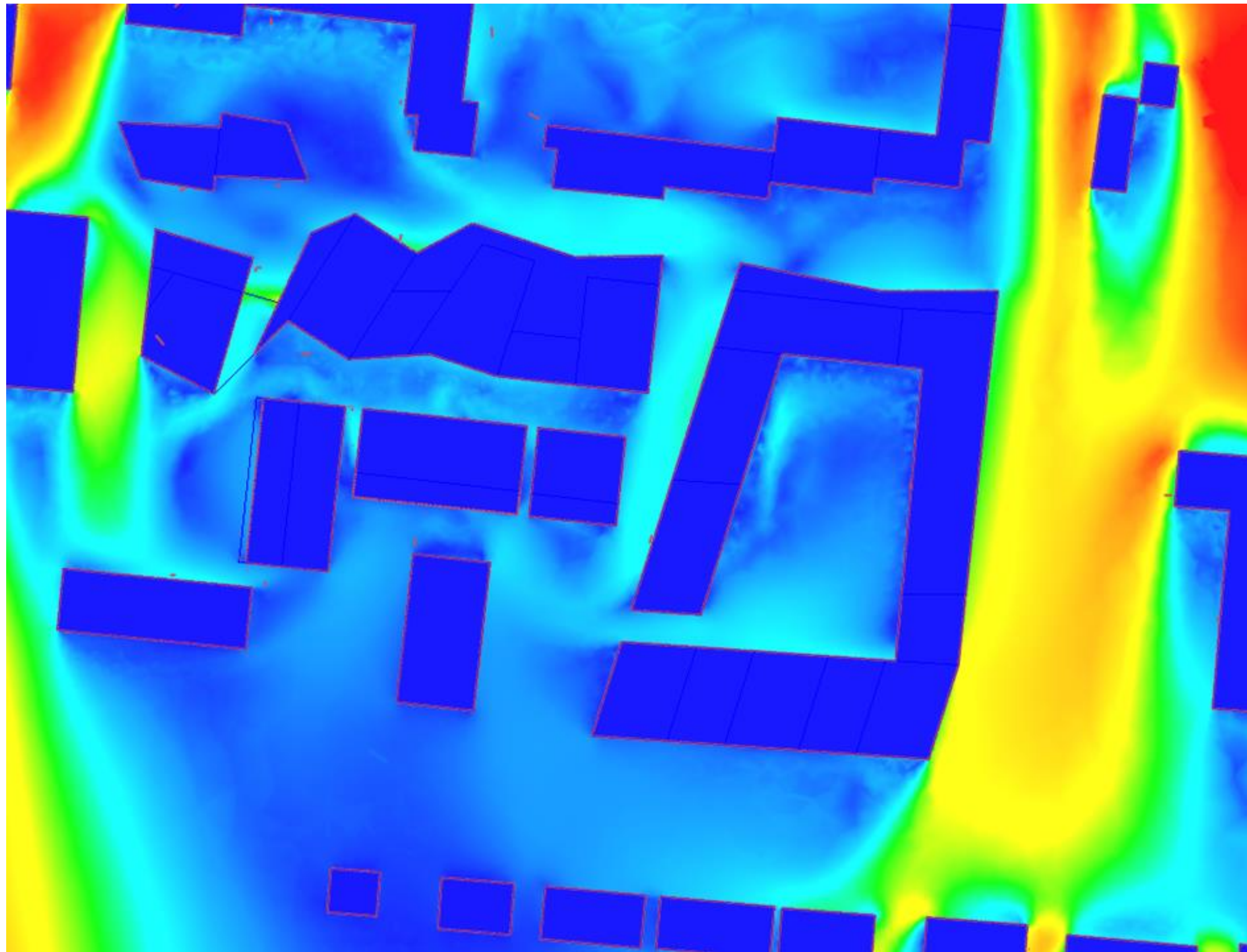
Mean vel: 6,6 m/s
Frequency: 11 %



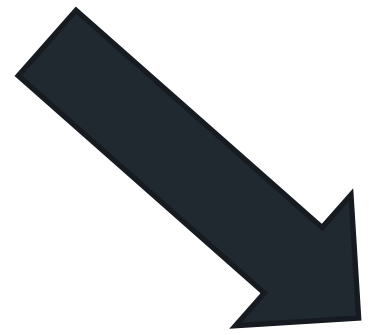
North



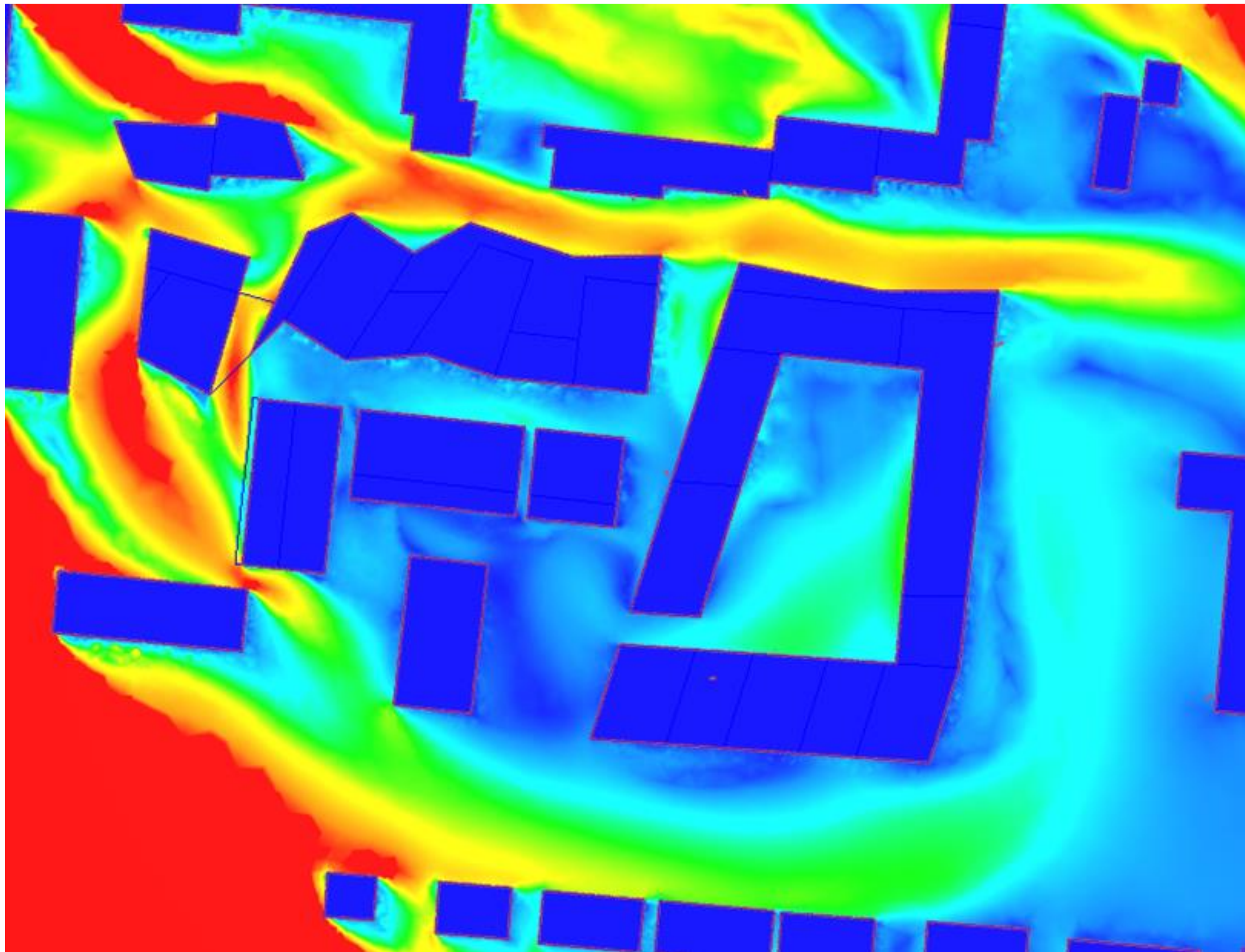
Mean vel: 4,7 m/s
Frequency: 10 %



Northwest



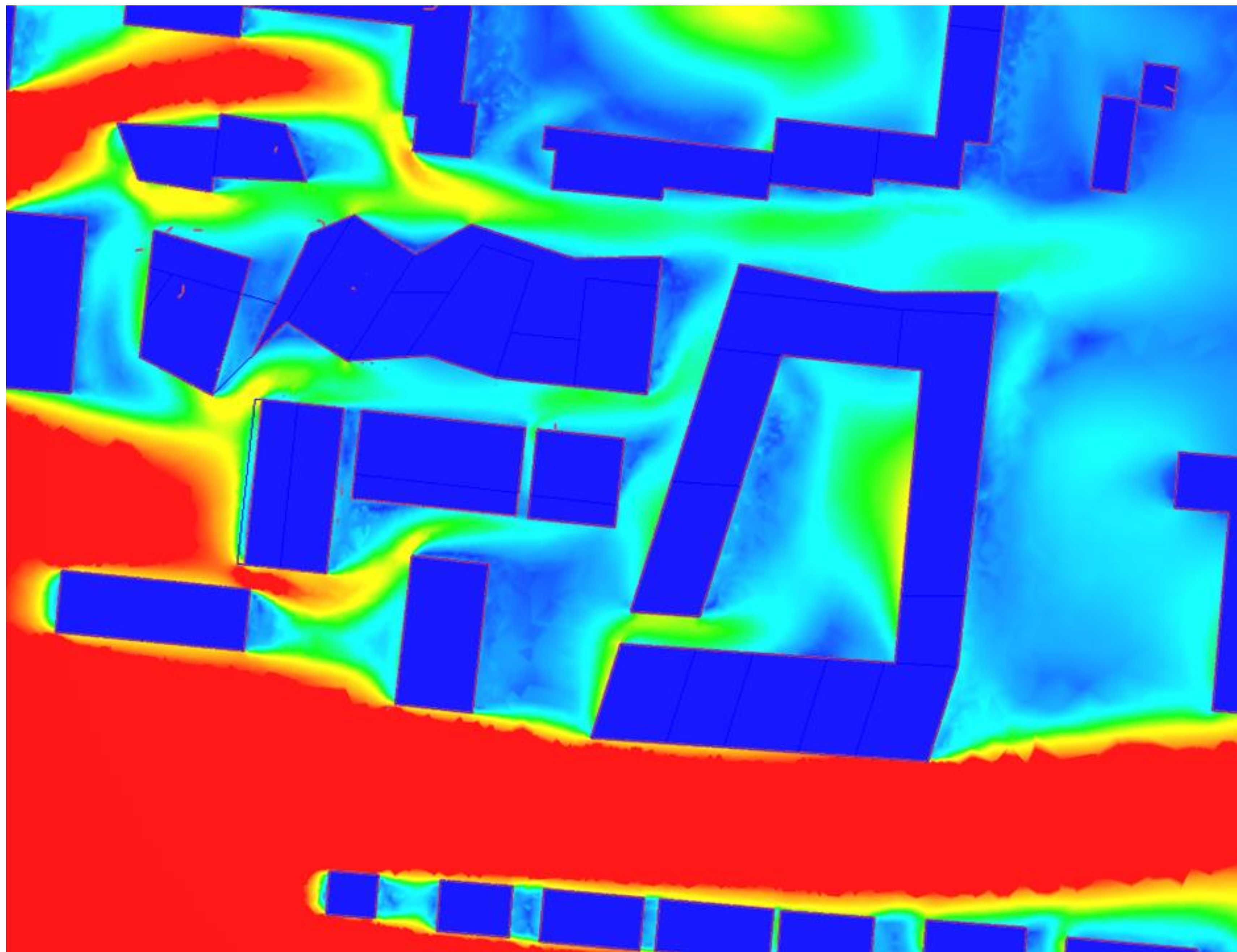
Mean vel: 4,5 m/s
Frequency: 9 %



West

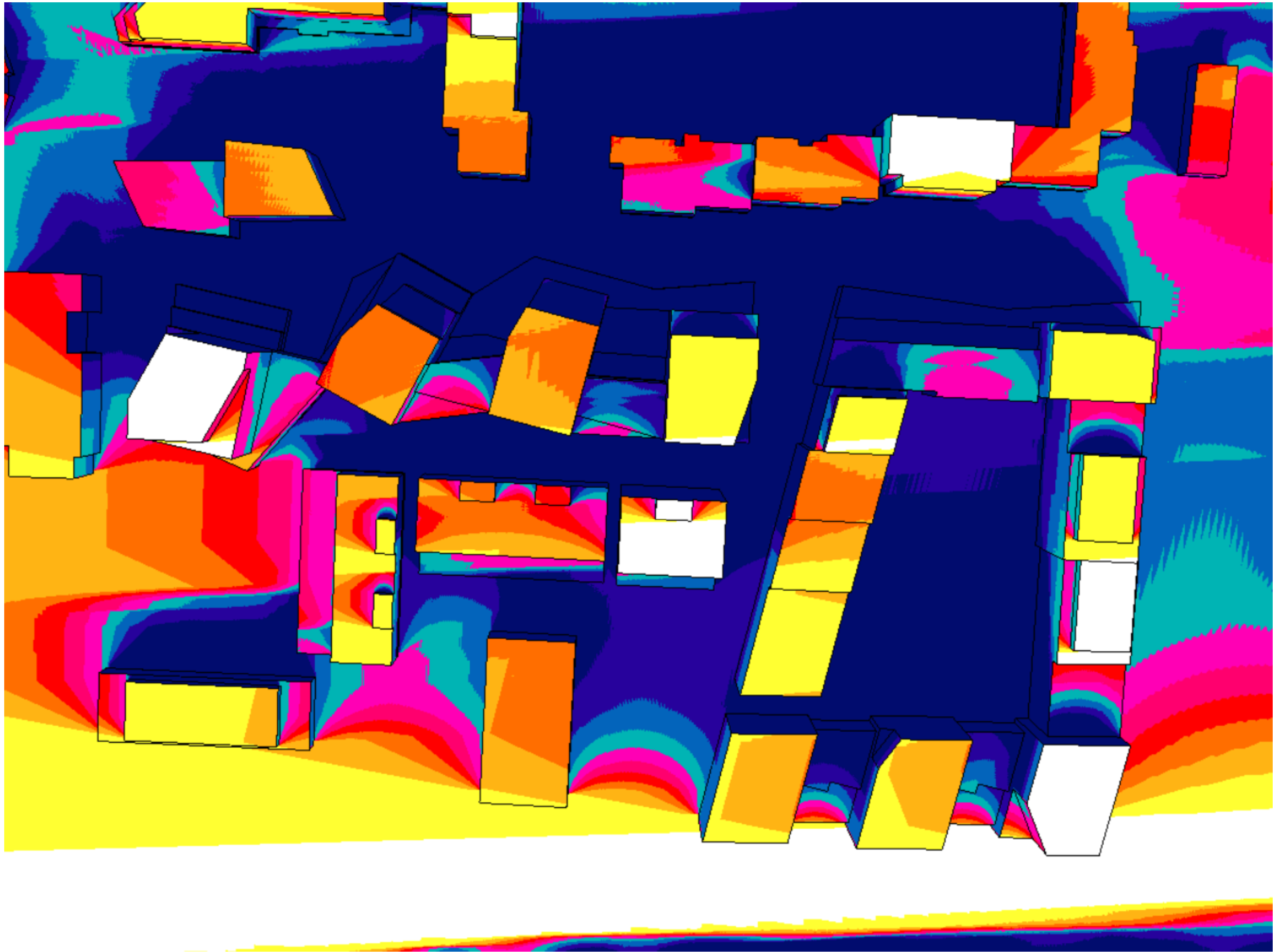


Mean vel: 6,2 m/s
Frequency: 10 %



Skjal sótt af '0000000000' dags: 24.10 2026

Spring equinox



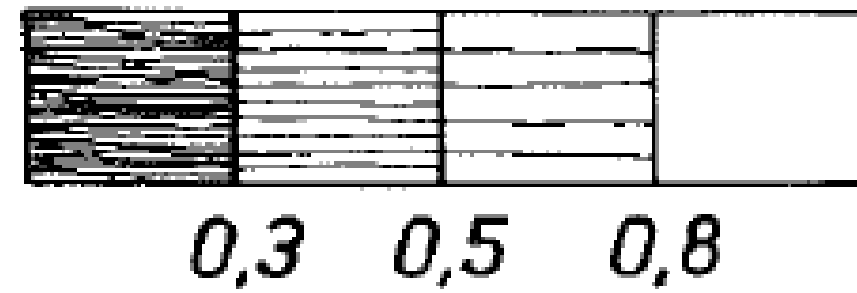
Soltimmar

Ej skuggad
11 - 12
10 - 11
9 - 10
8 - 9
7 - 8
6 - 7
5 - 6
4 - 5
3 - 4
0 - 3

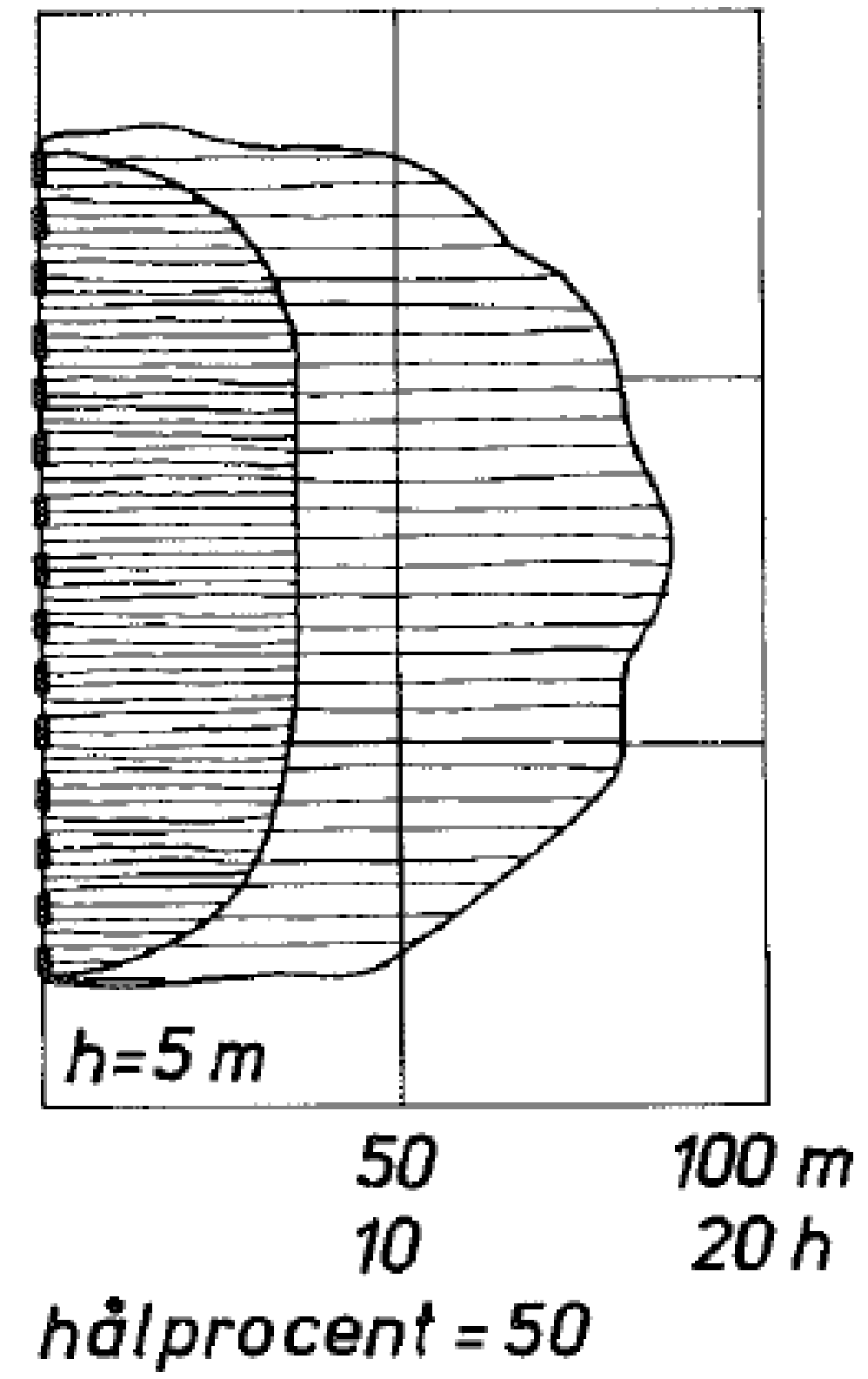
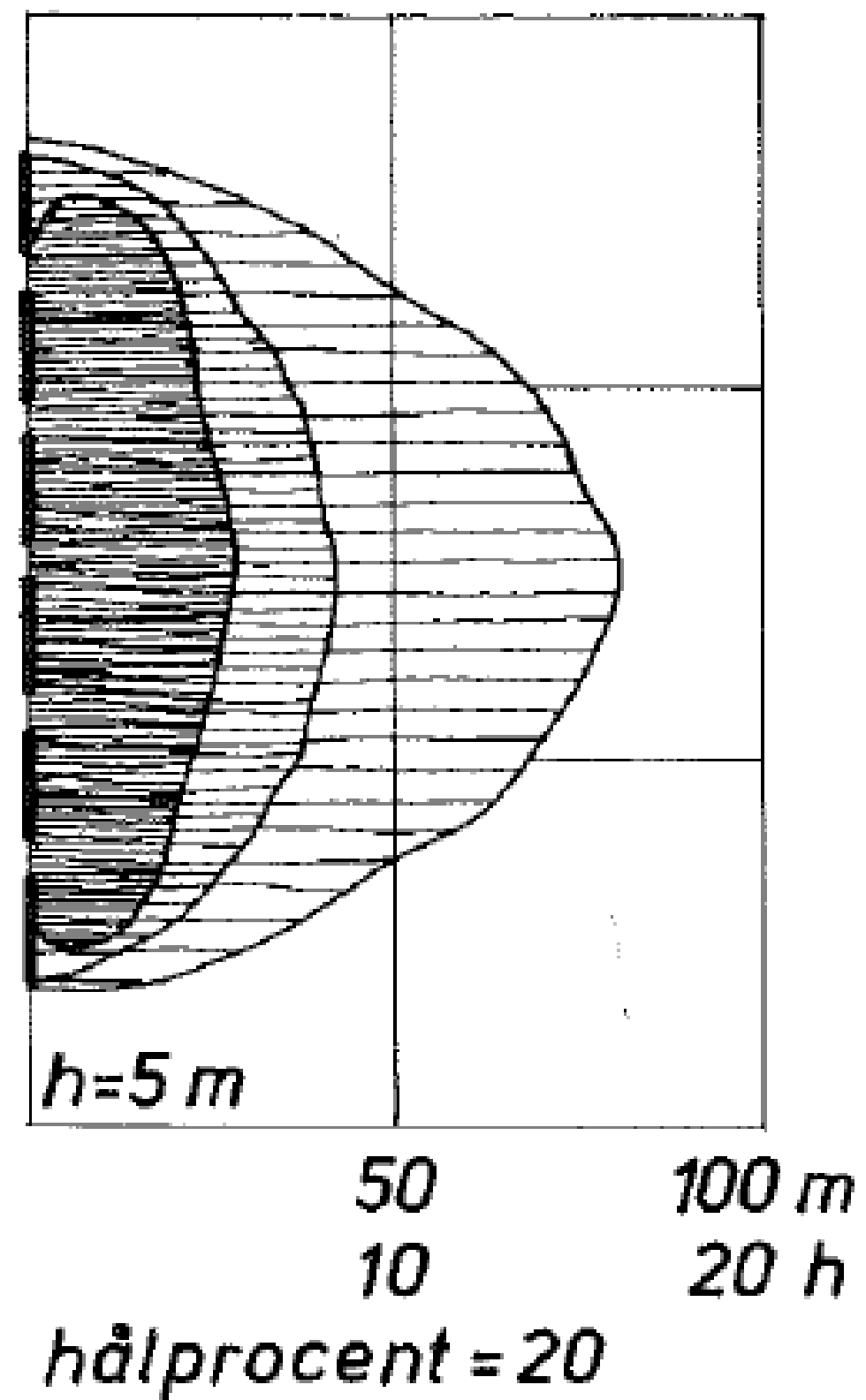
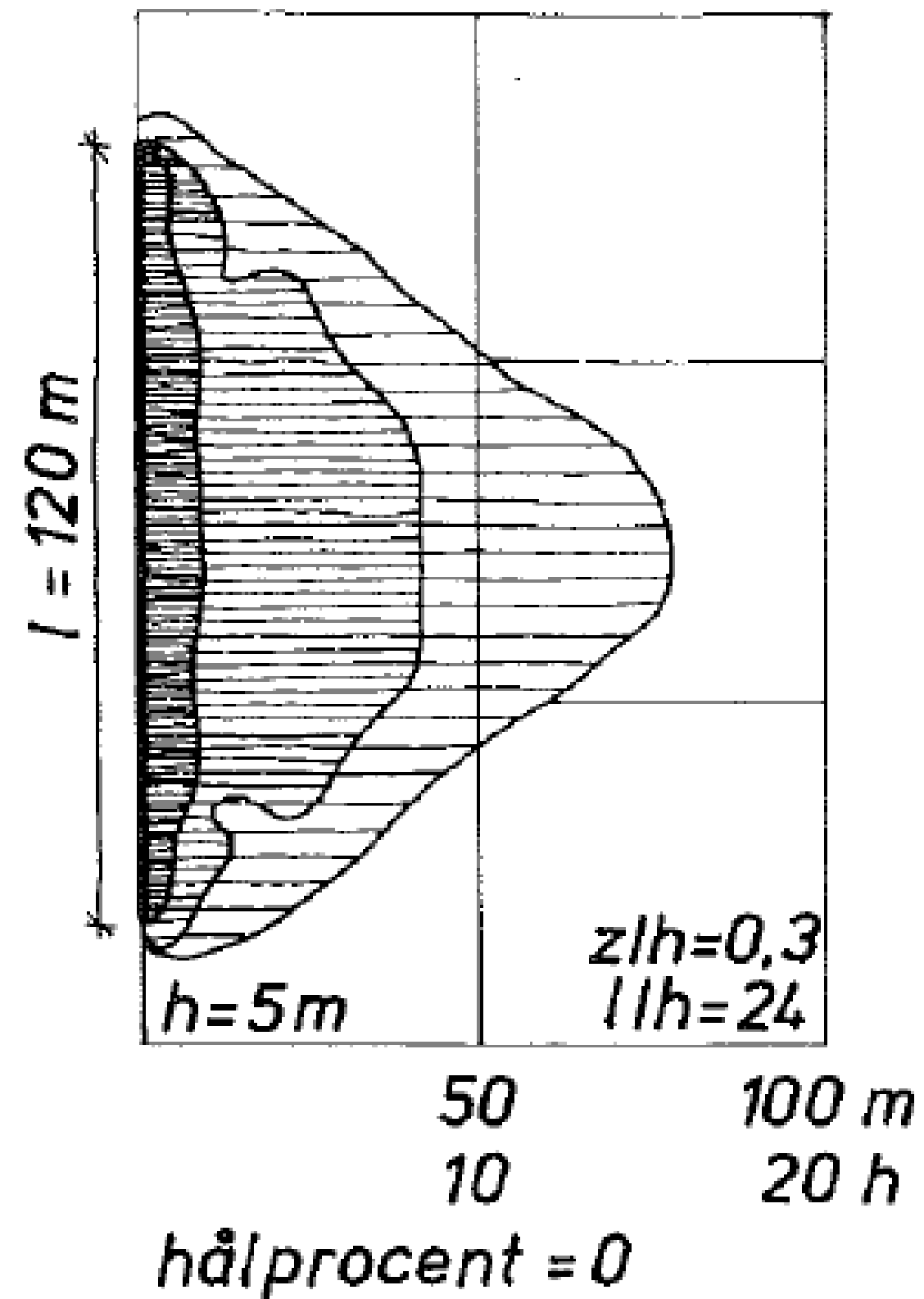
Vinddesign



Upplevd relativ vindhastighet



VIND →



Dåliga exempel



Västra Hamnen



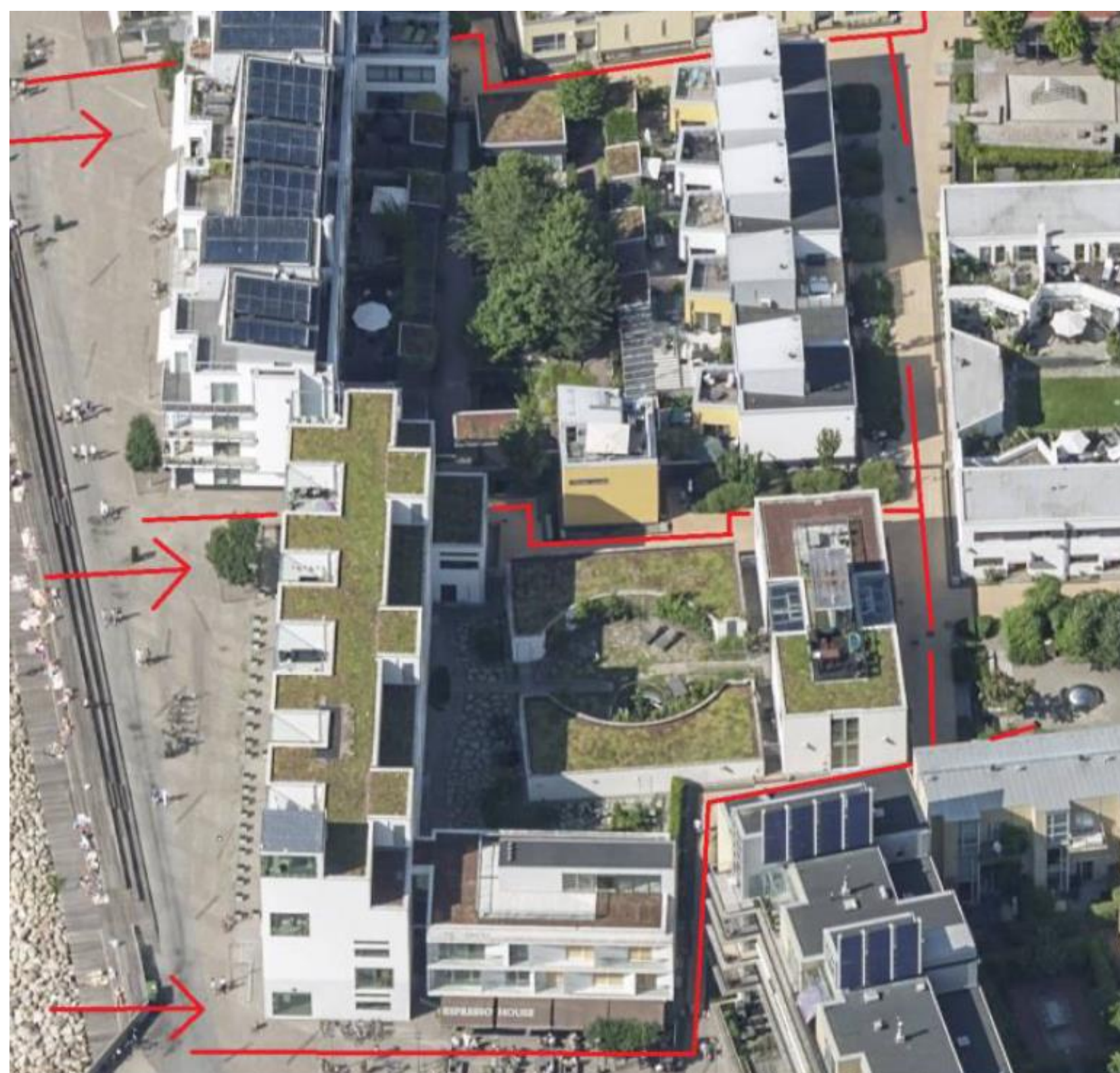
Hyllie



Goda exempel



Bo01



Lilla Torg

