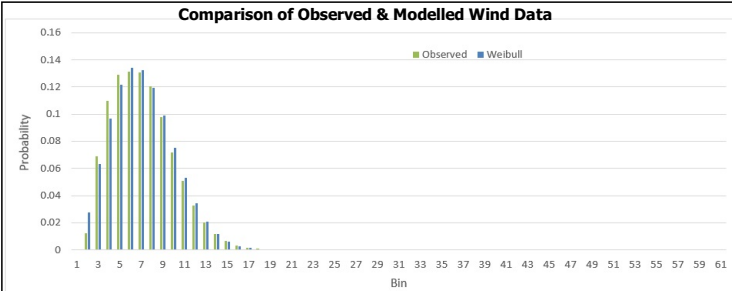
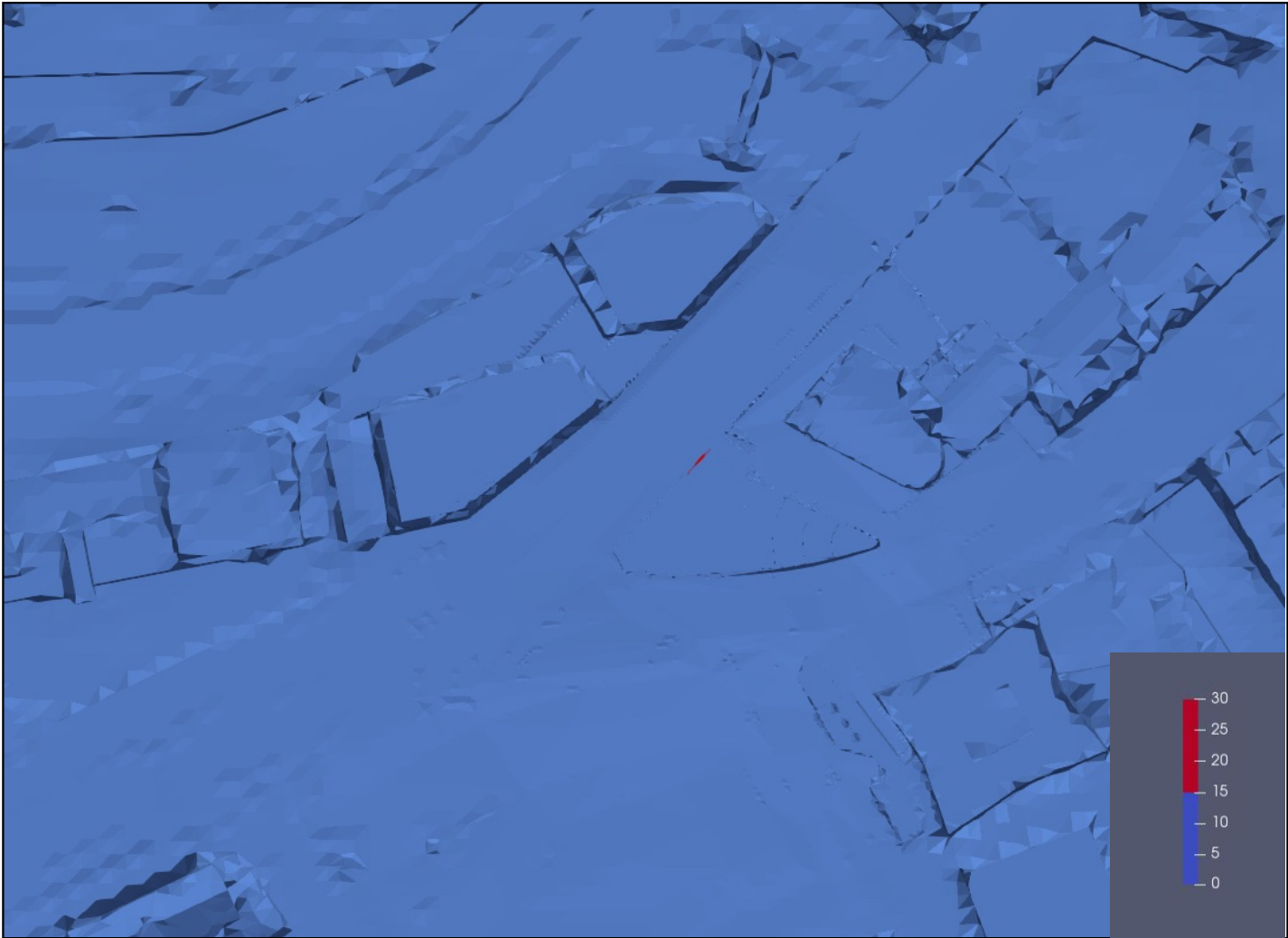
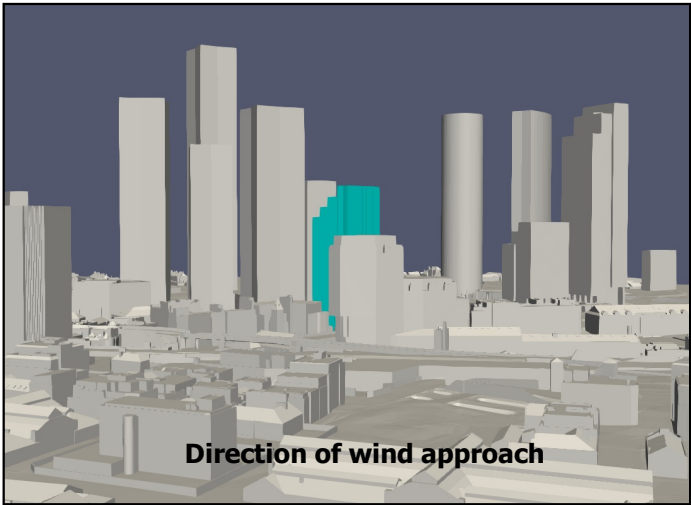
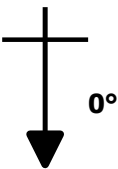
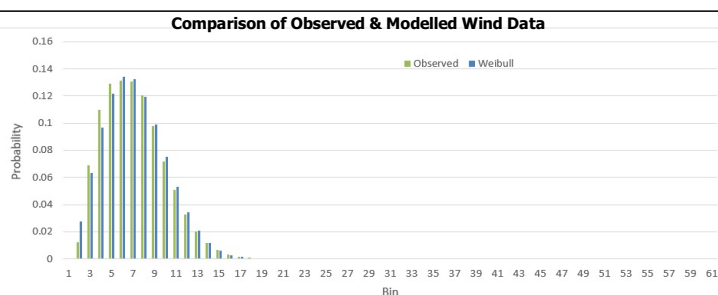
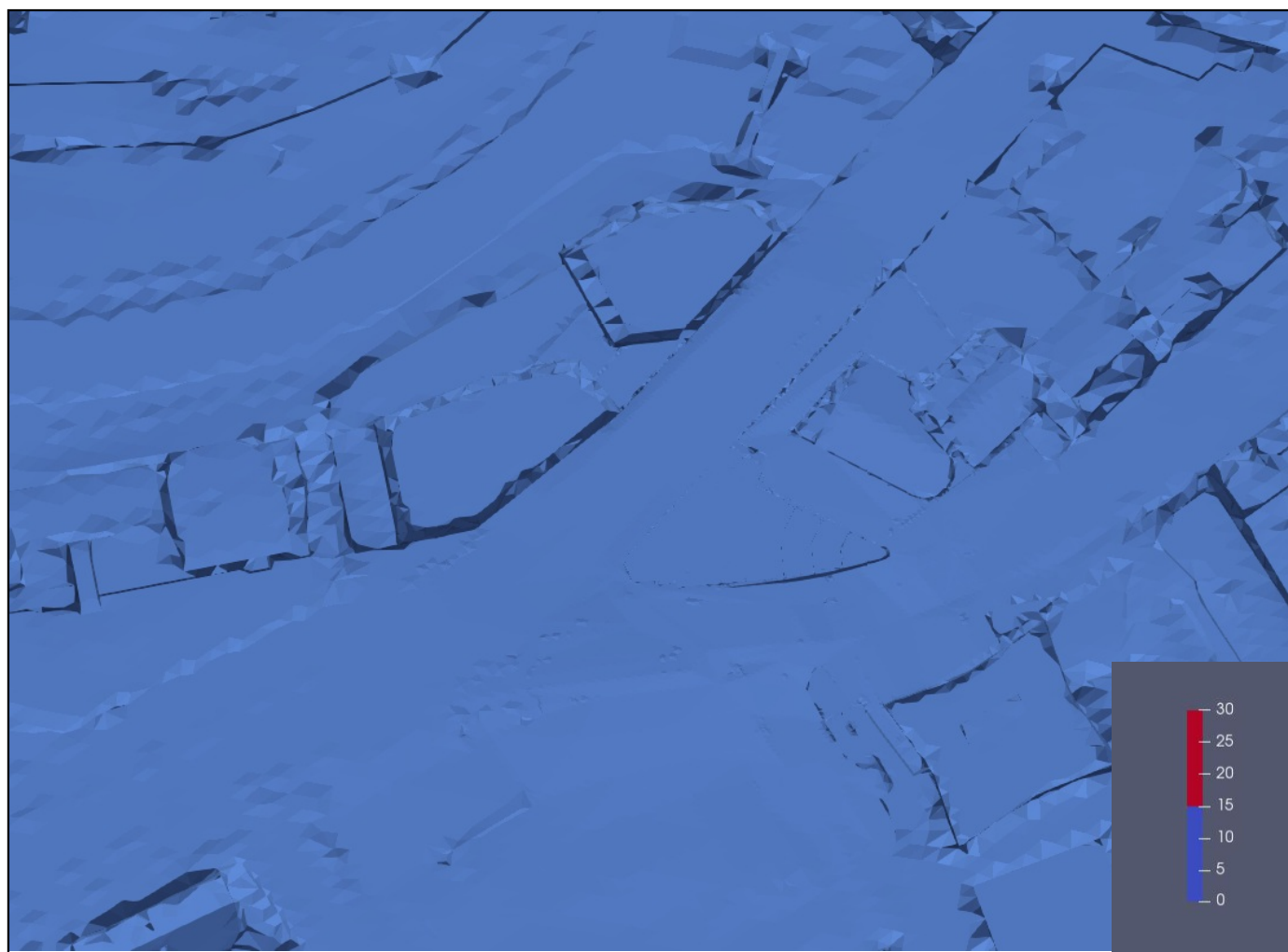
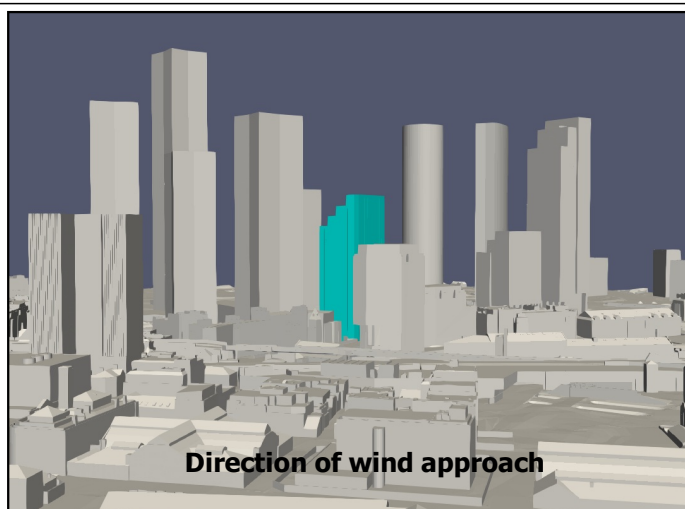


Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 0°



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		Checked By: P.Evans	Date: 11/12/2020
		CFD Model of Wind Flow at 0° Deansgate South Manchester	
WIND_DIR_0_GM11393			Figure 1



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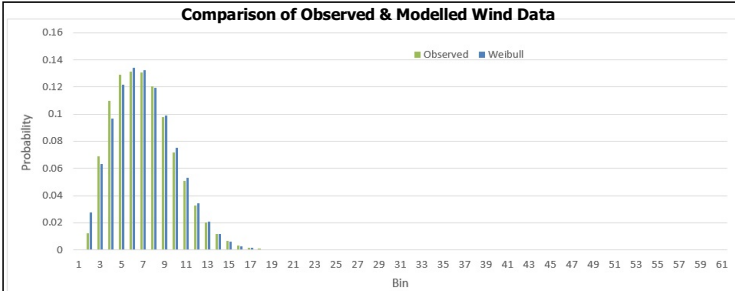
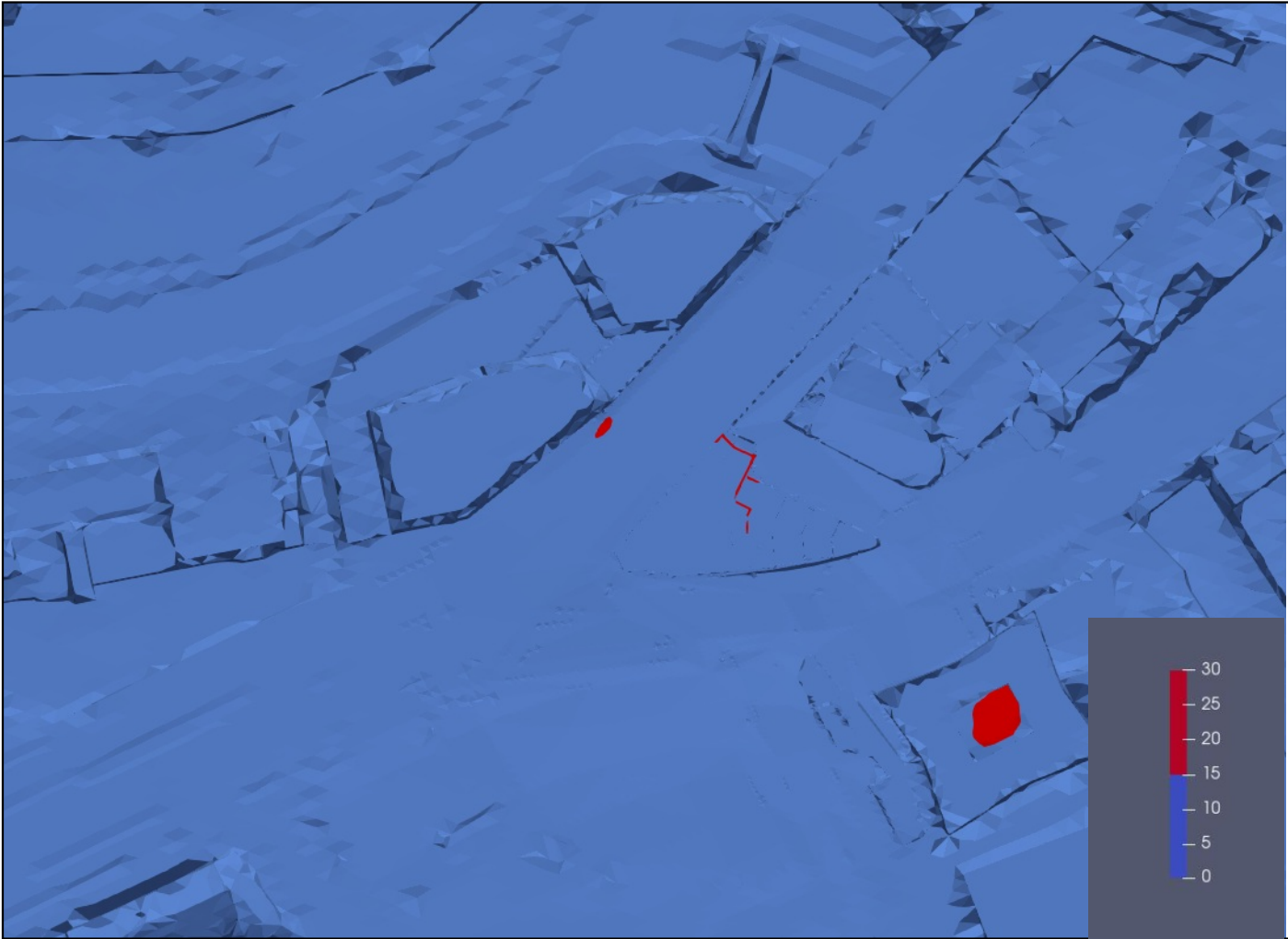
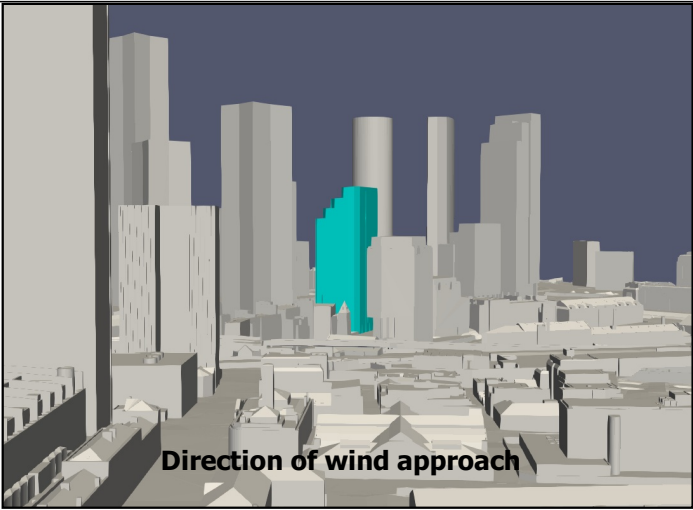
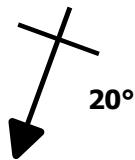
Drawn By: S.Livingstone	Date: 11/12/2020
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CFD Model of Wind Flow at 10°
Deansgate South
Manchester

WIND_DIR_10_GM11393

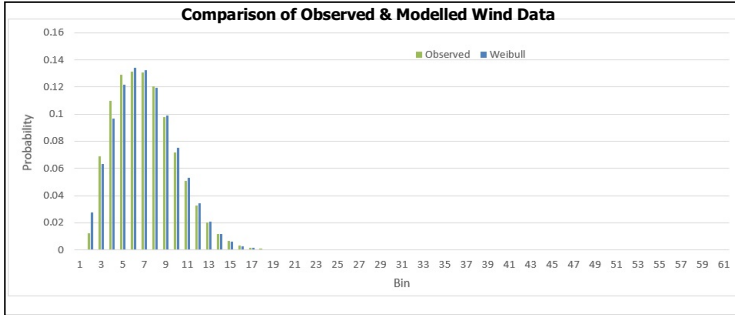
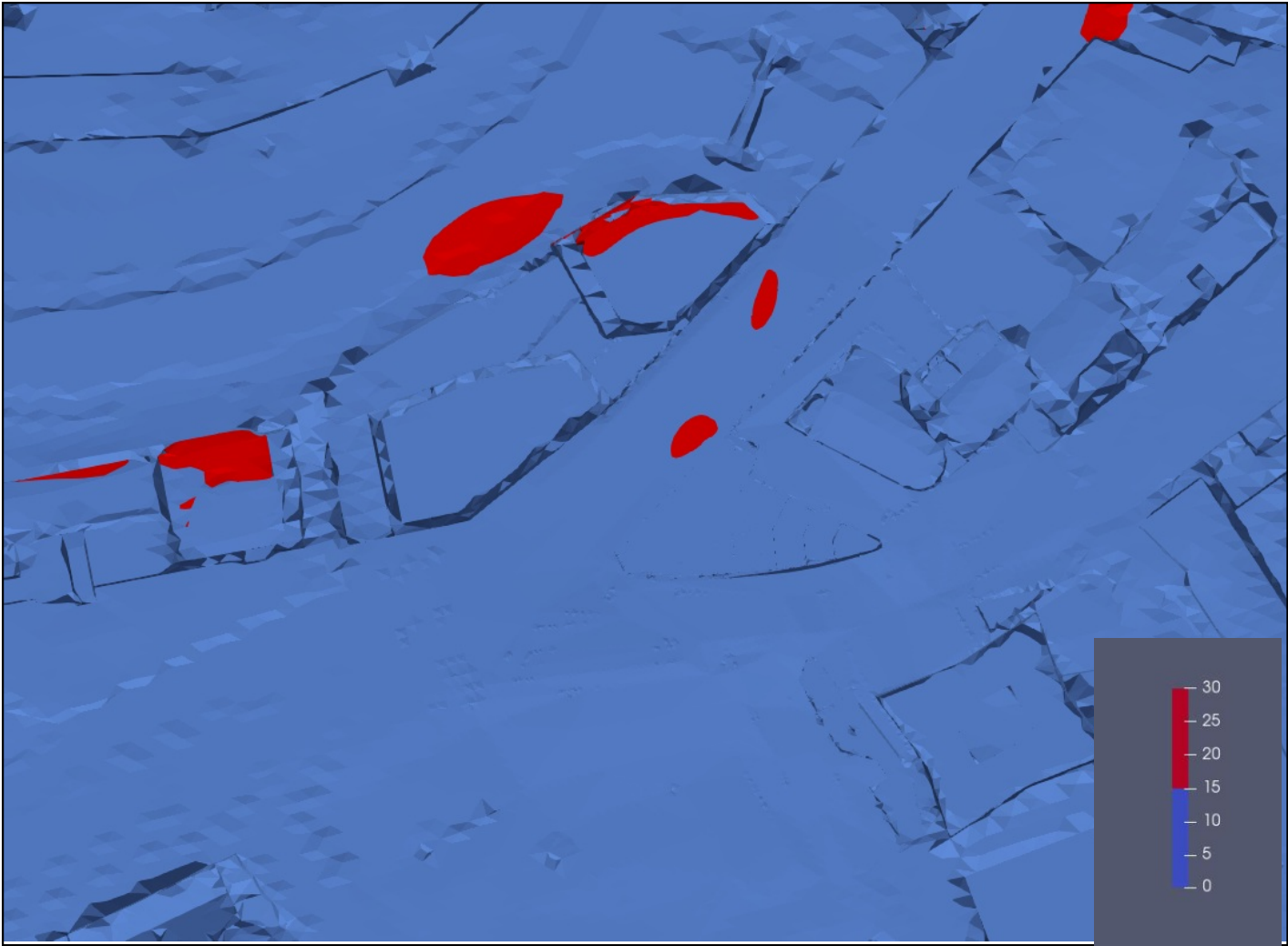
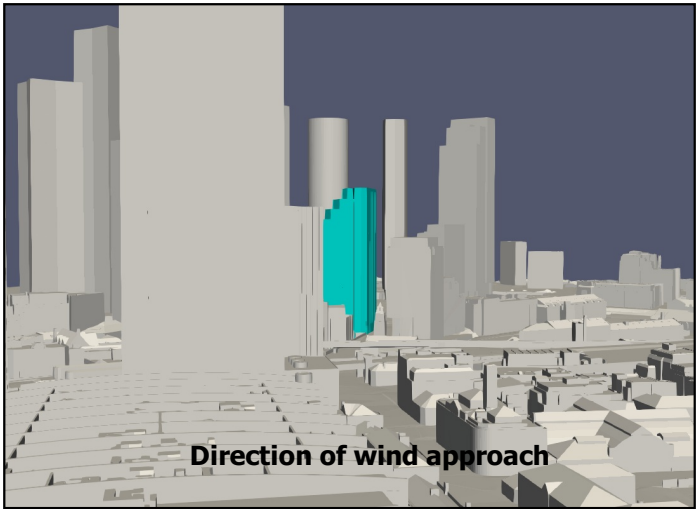
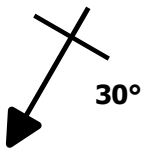
Figure 2

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 20°



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CFD Model of Wind Flow at 20° Deansgate South Manchester	
WIND_DIR_20_GM11393	Figure 3

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 30°



Notes:

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CFD Model of Wind Flow at 30°
Deansgate South
Manchester

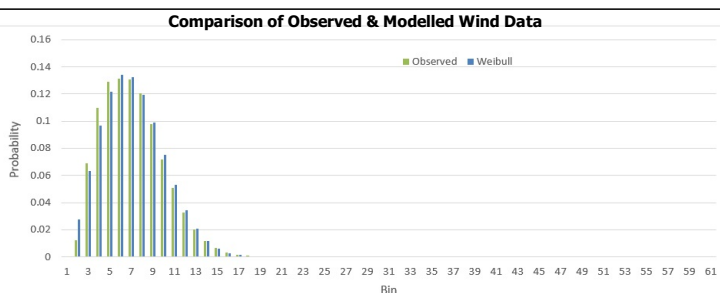
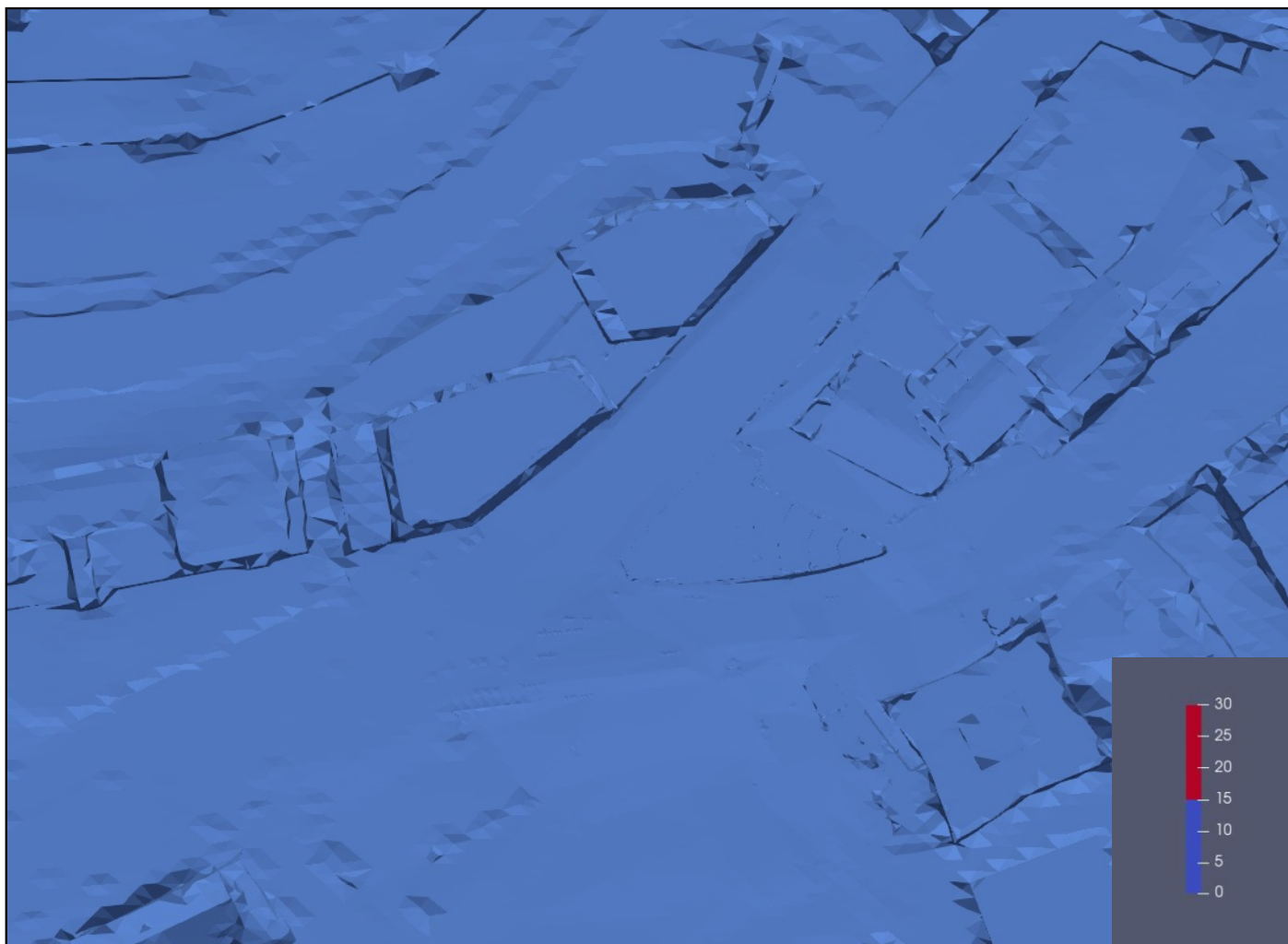
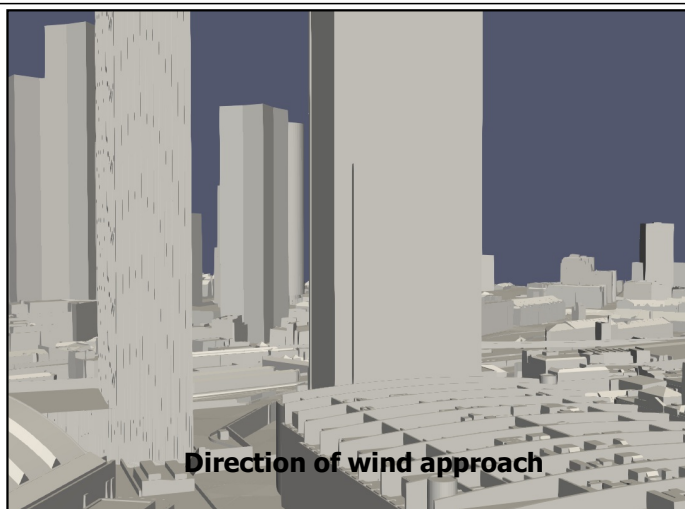
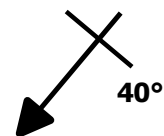
WIND_DIR_30_GM11393

Figure 4

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 40°



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Checked By: P.Evans Date: 11/12/2020

CFD Model of Wind Flow at 40°
Deansgate South
Manchester

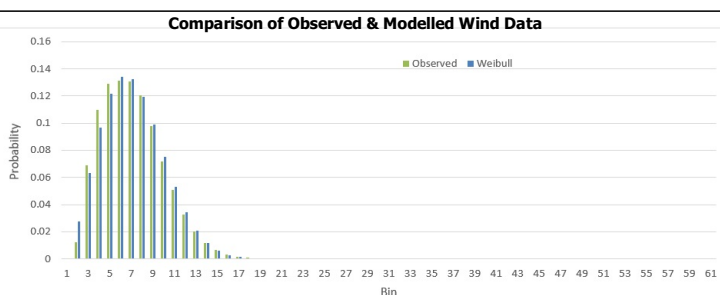
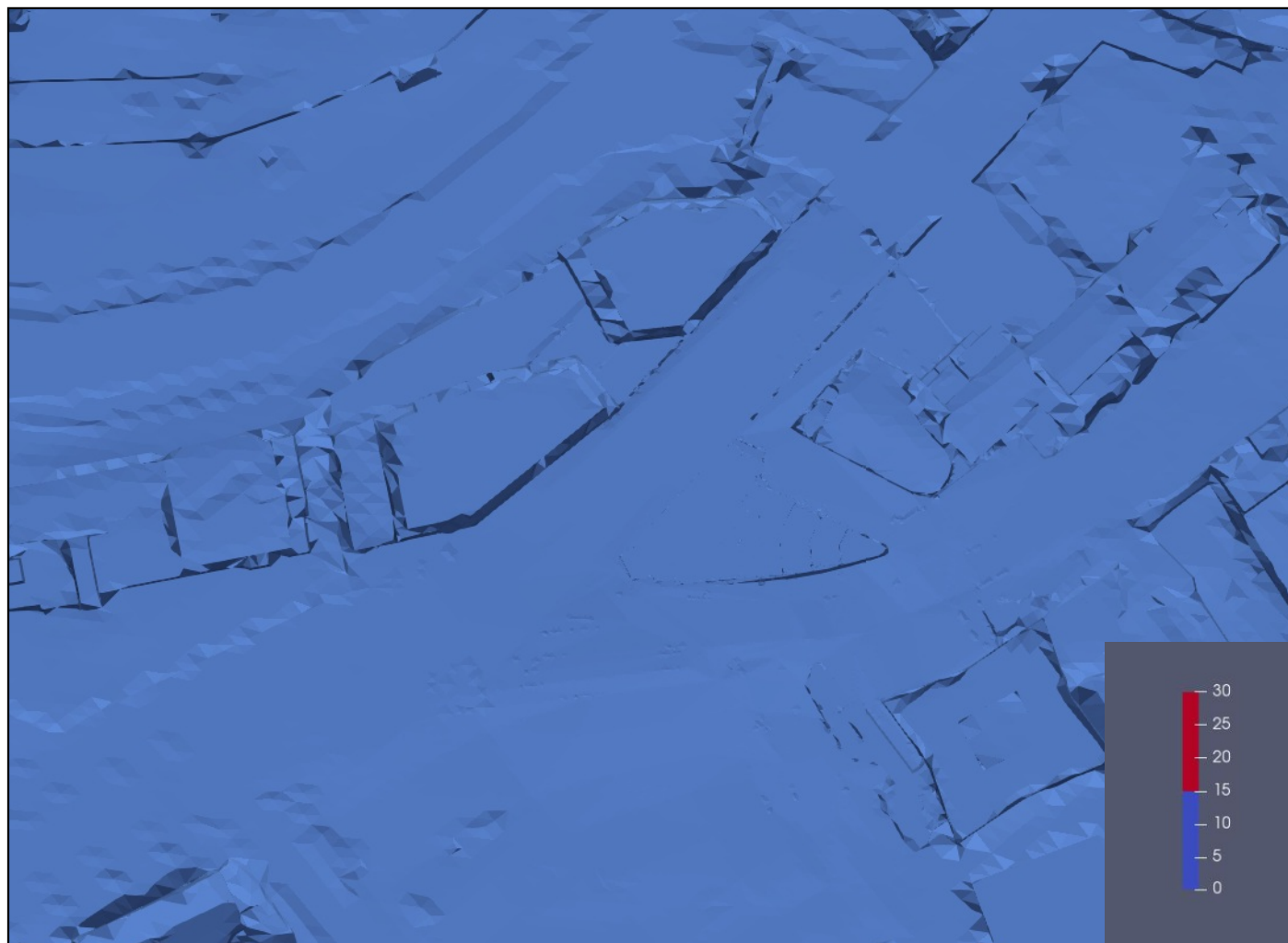
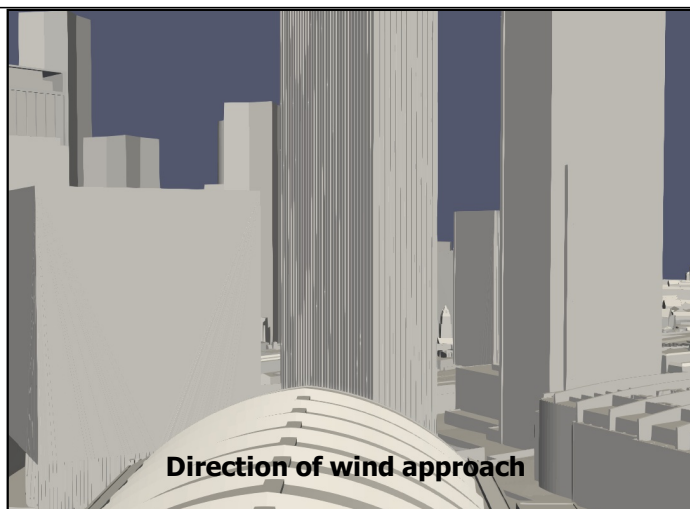
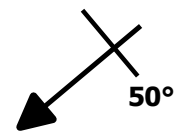
WIND_DIR_40_GM11393

Figure 5

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 50°



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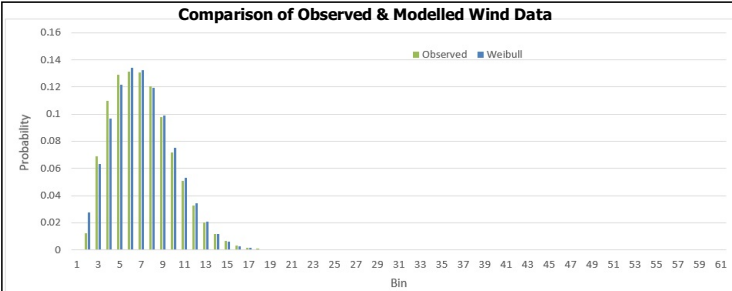
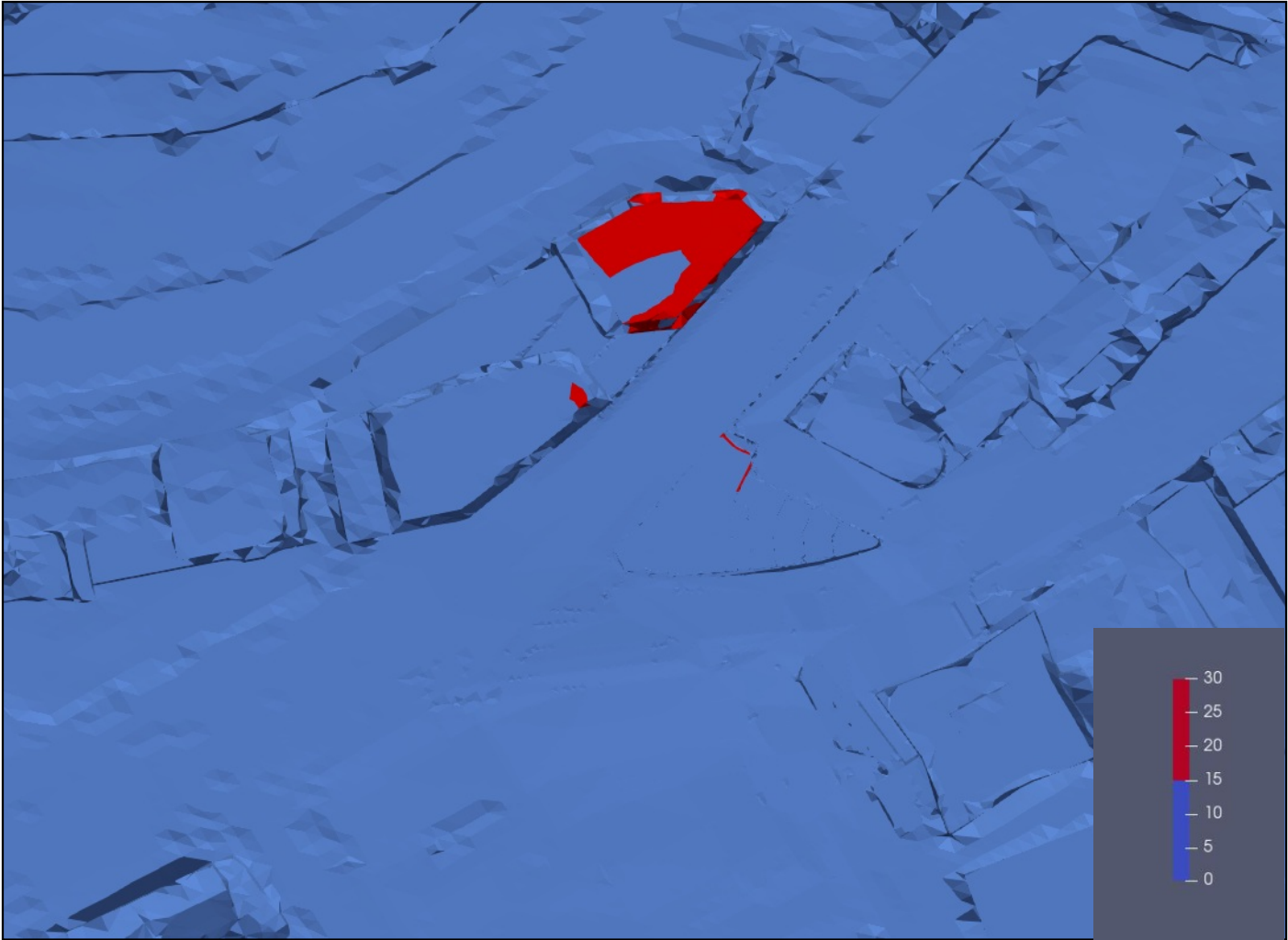
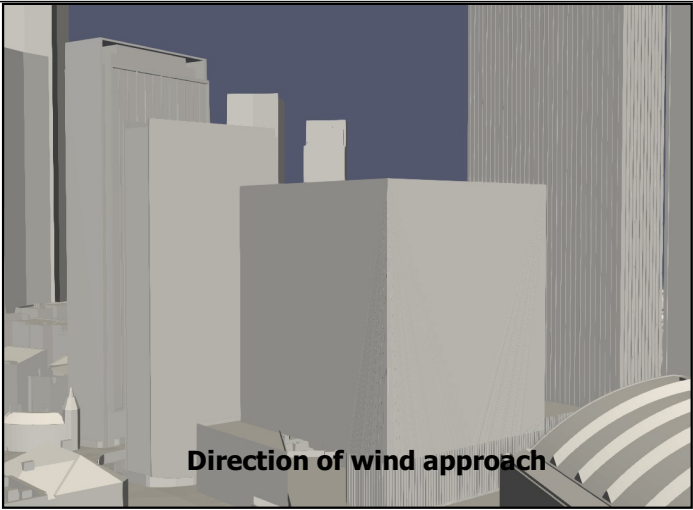
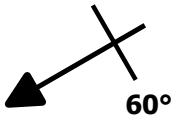
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 50°
Deansgate South
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WIND_DIR_50_GM11393

Figure 6

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 60°



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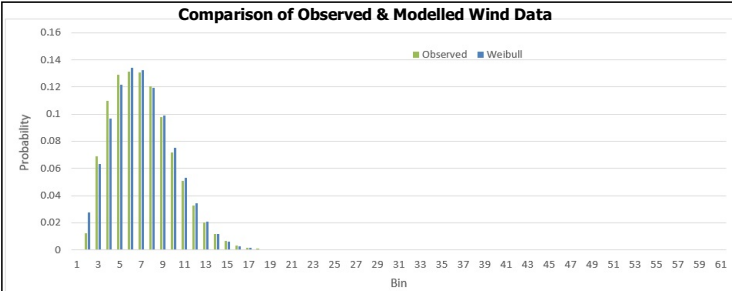
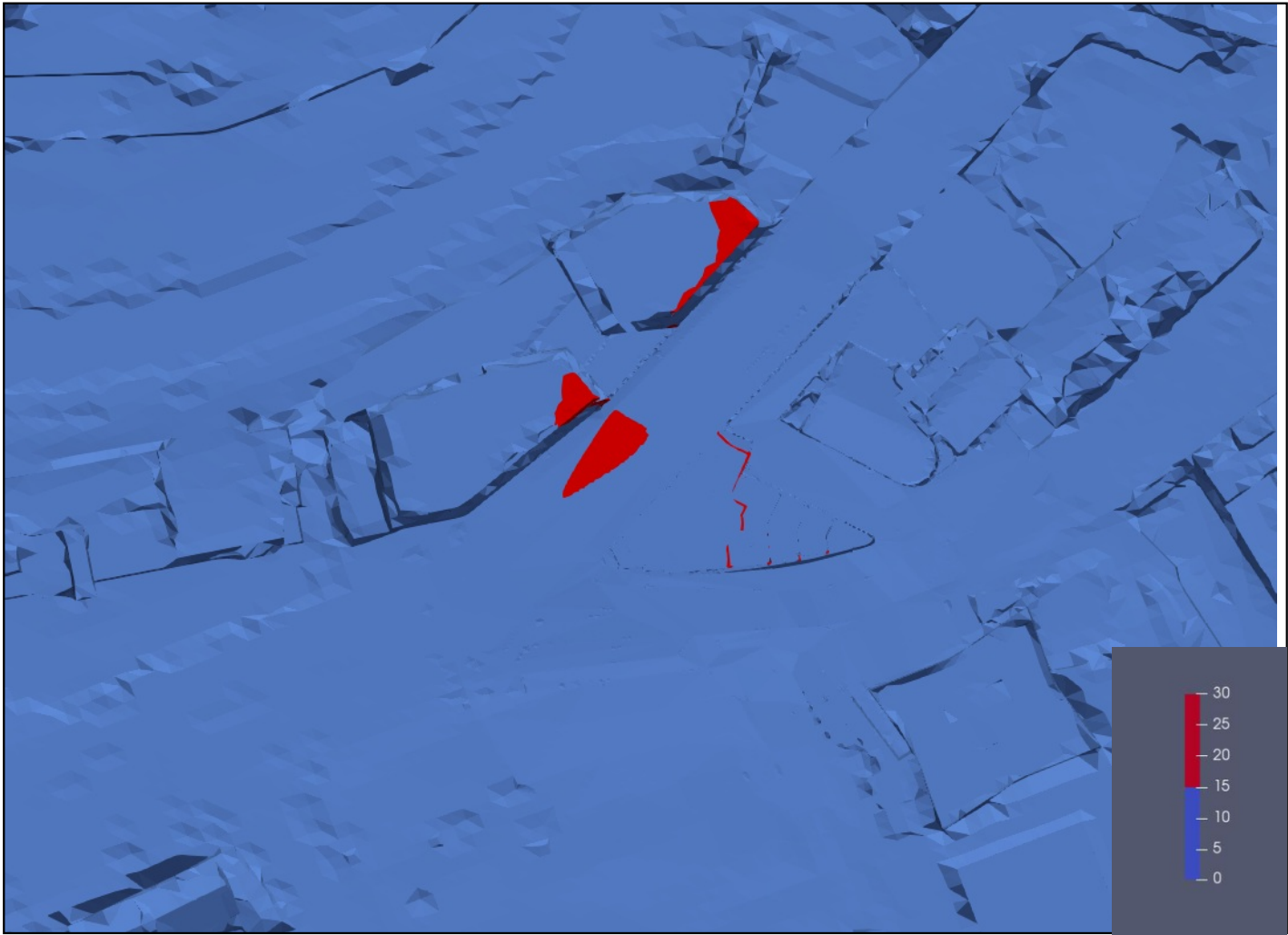
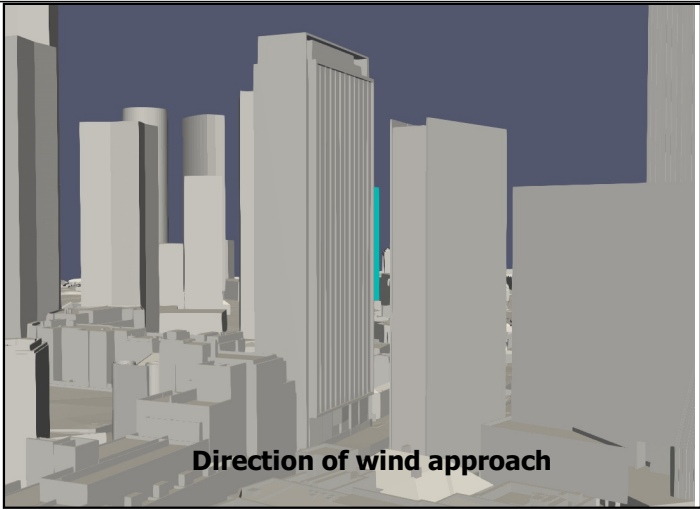
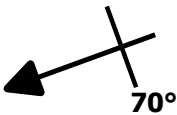
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Date: 11/12/2020

CFD Model of Wind Flow at 60°
Deansgate South
Manchester

WIND_DIR_60_GM11393

Figure 7

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 70°



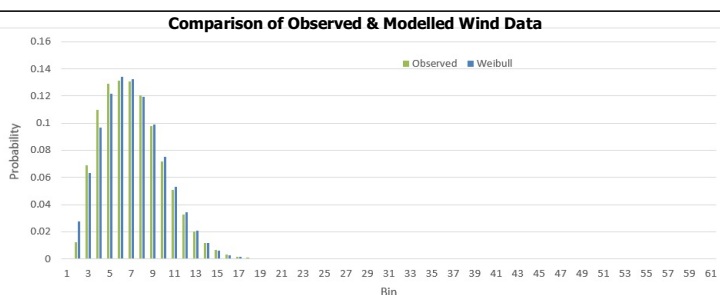
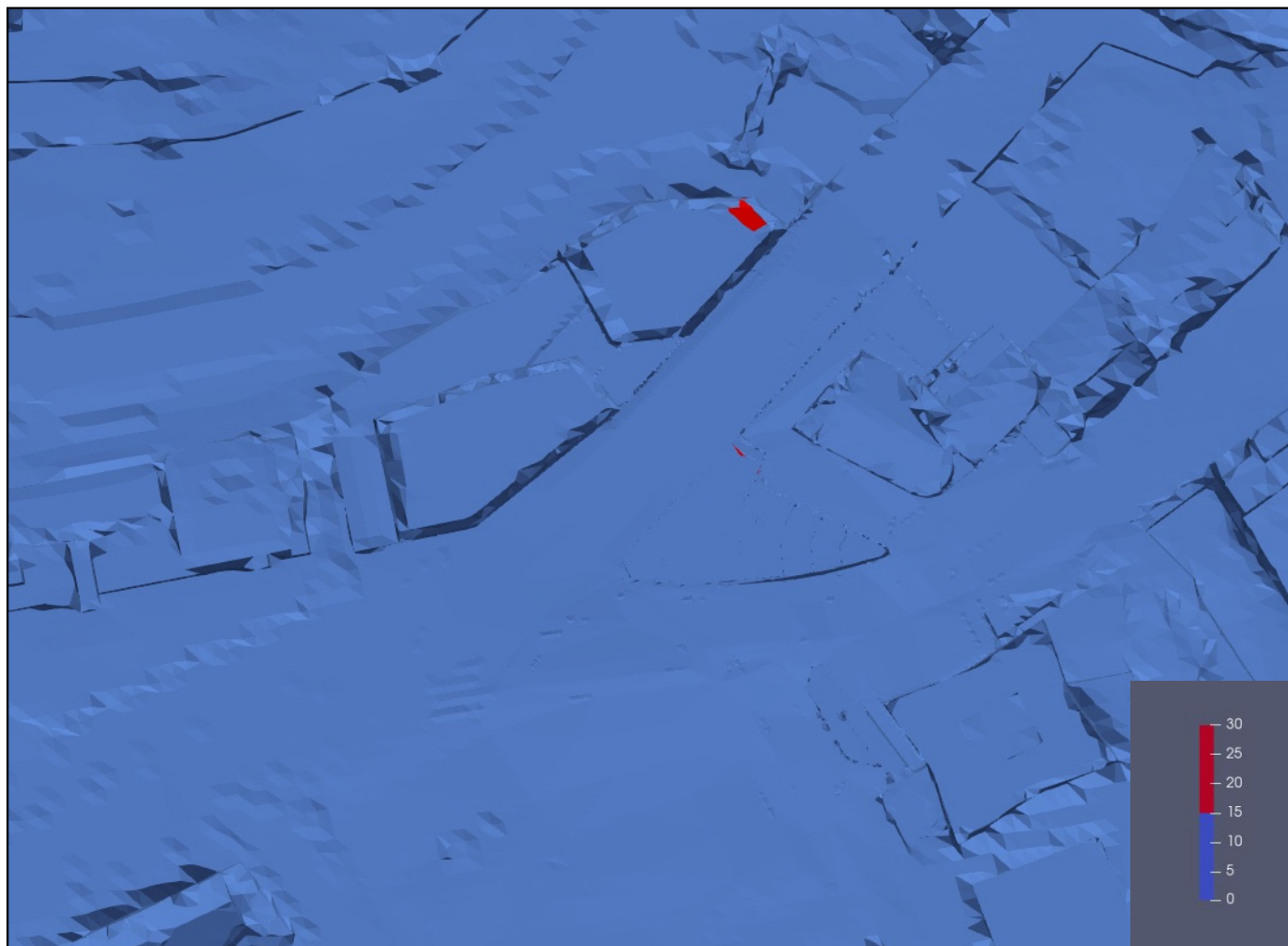
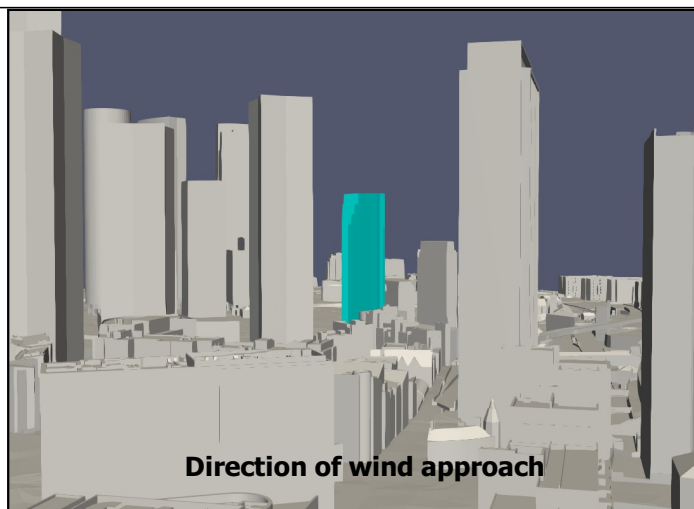
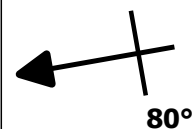
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		Checked By: P.Evans	Date: 11/12/2020
		CFD Model of Wind Flow at 70° Deansgate South Manchester	
WIND_DIR_70_GM11393			Figure 8

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 80°



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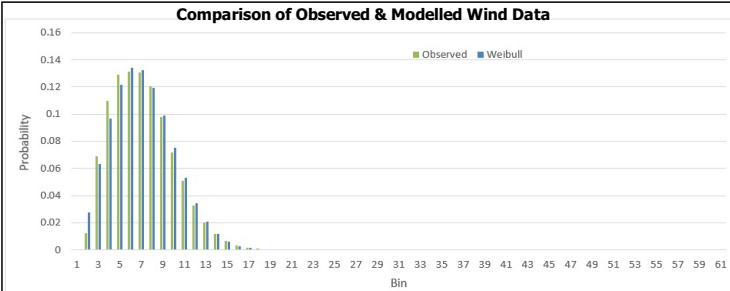
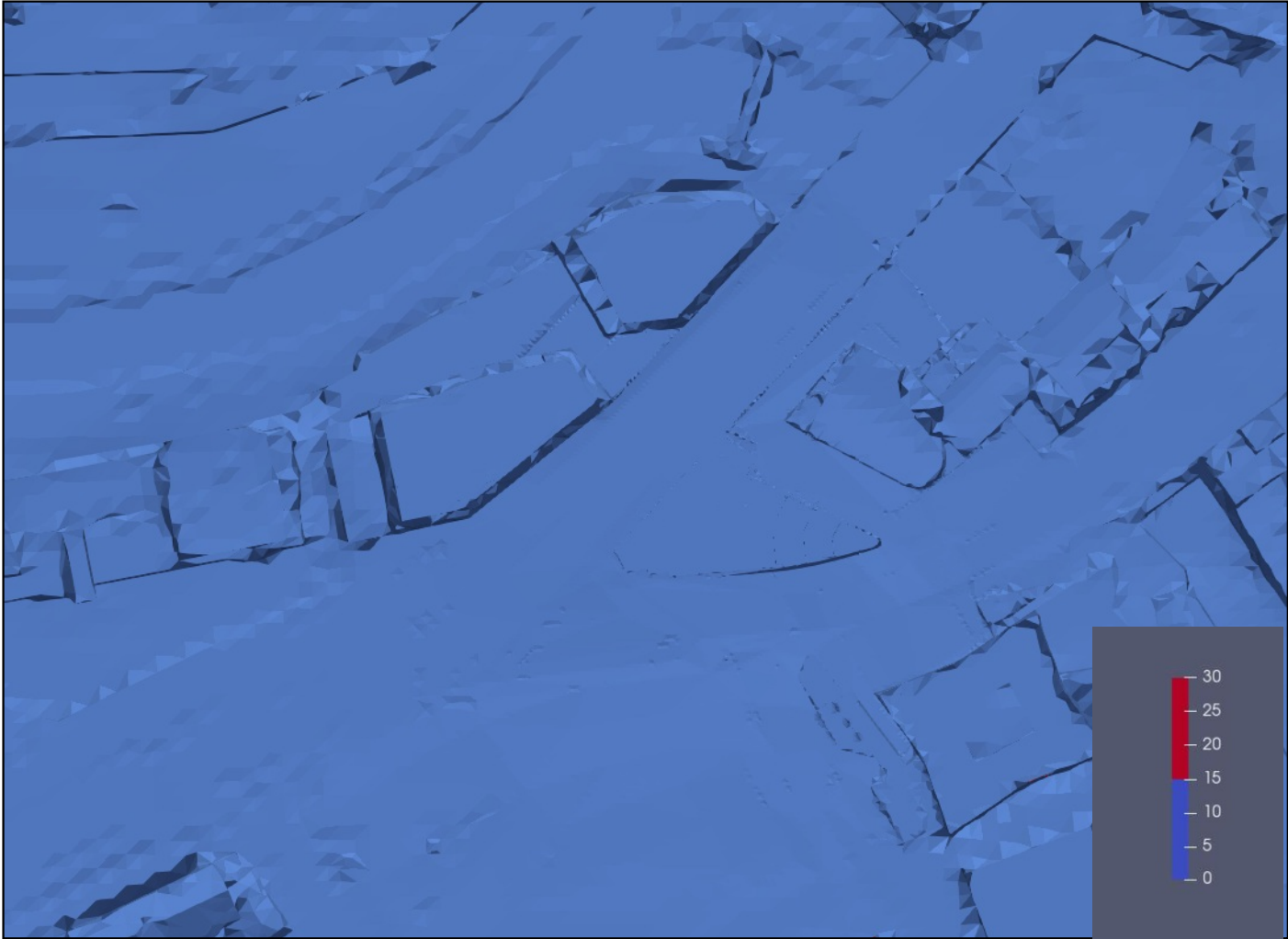
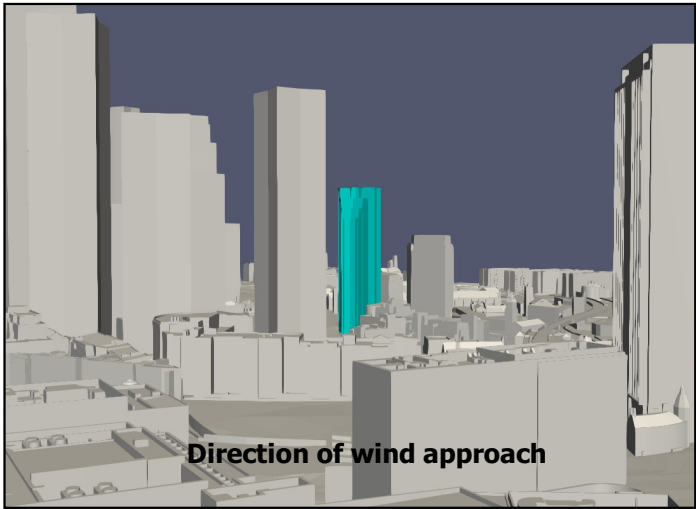
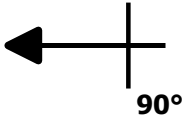
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CFD Model of Wind Flow at 80°
Deansgate South
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WIND_DIR_80_GM11393

Figure 9

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 90°



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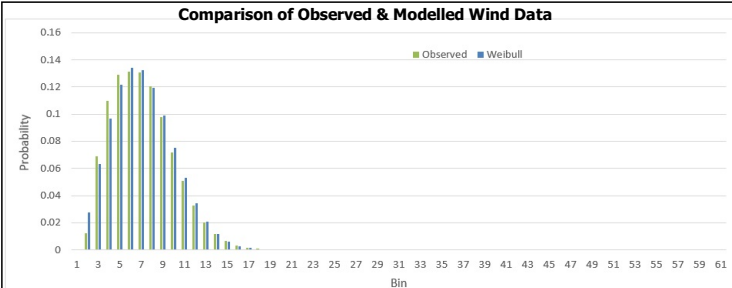
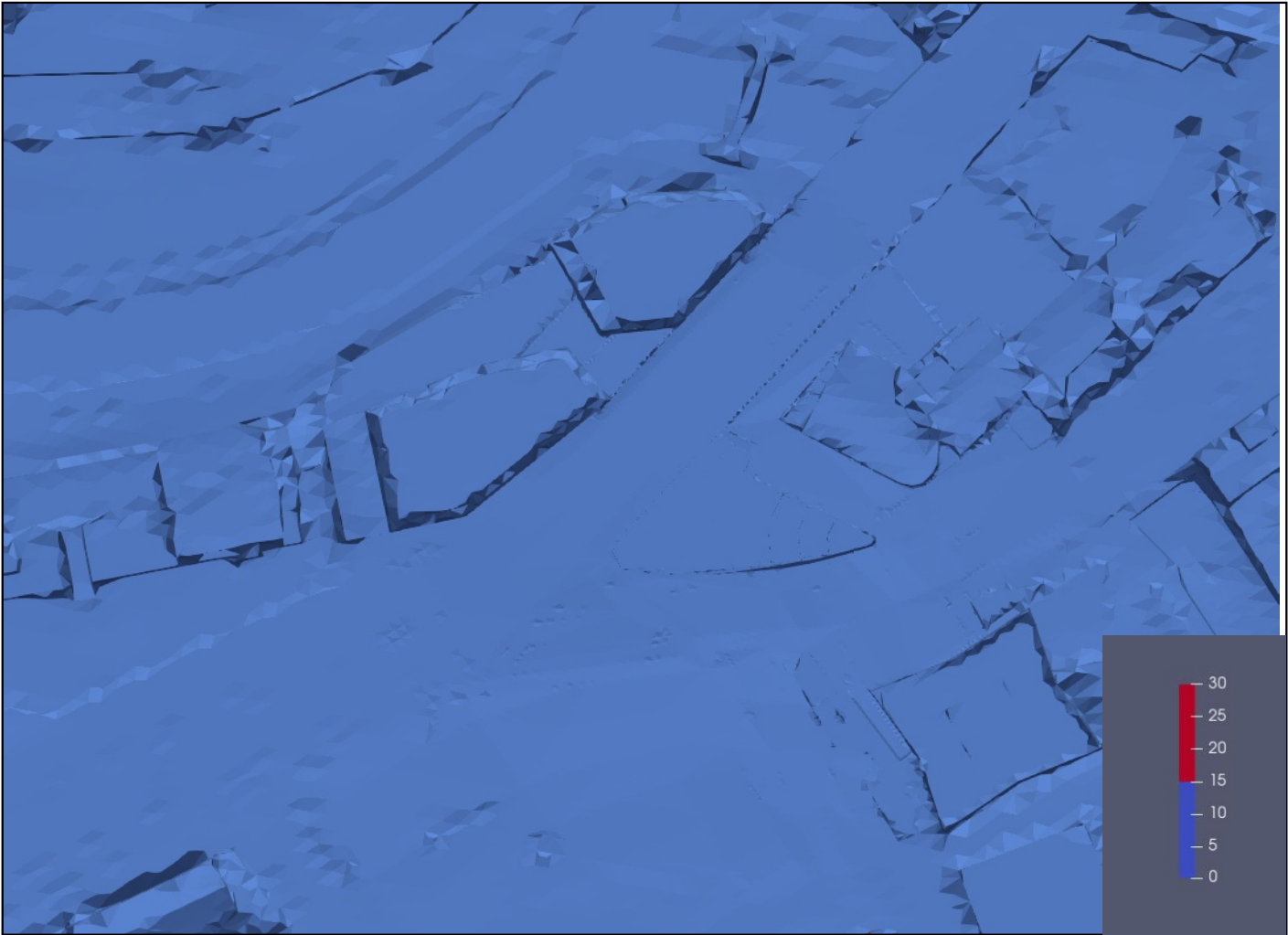
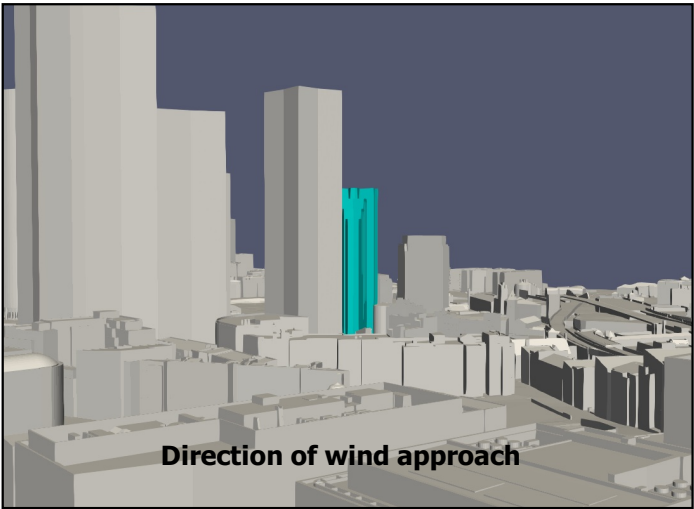
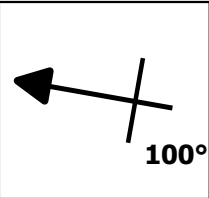
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 90°
Deansgate South
Manchester

WIND_DIR_90_GM11393

Figure 10

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 100°



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CFD Model of Wind Flow at 100°
Deansgate South
Manchester

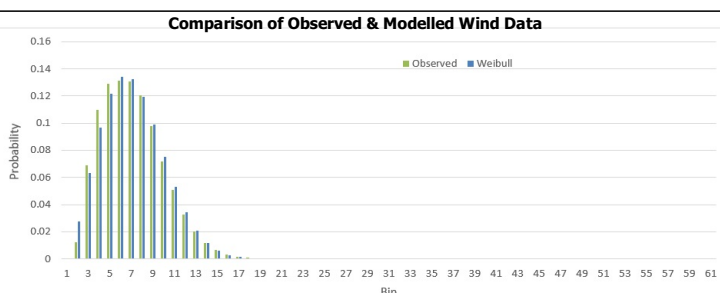
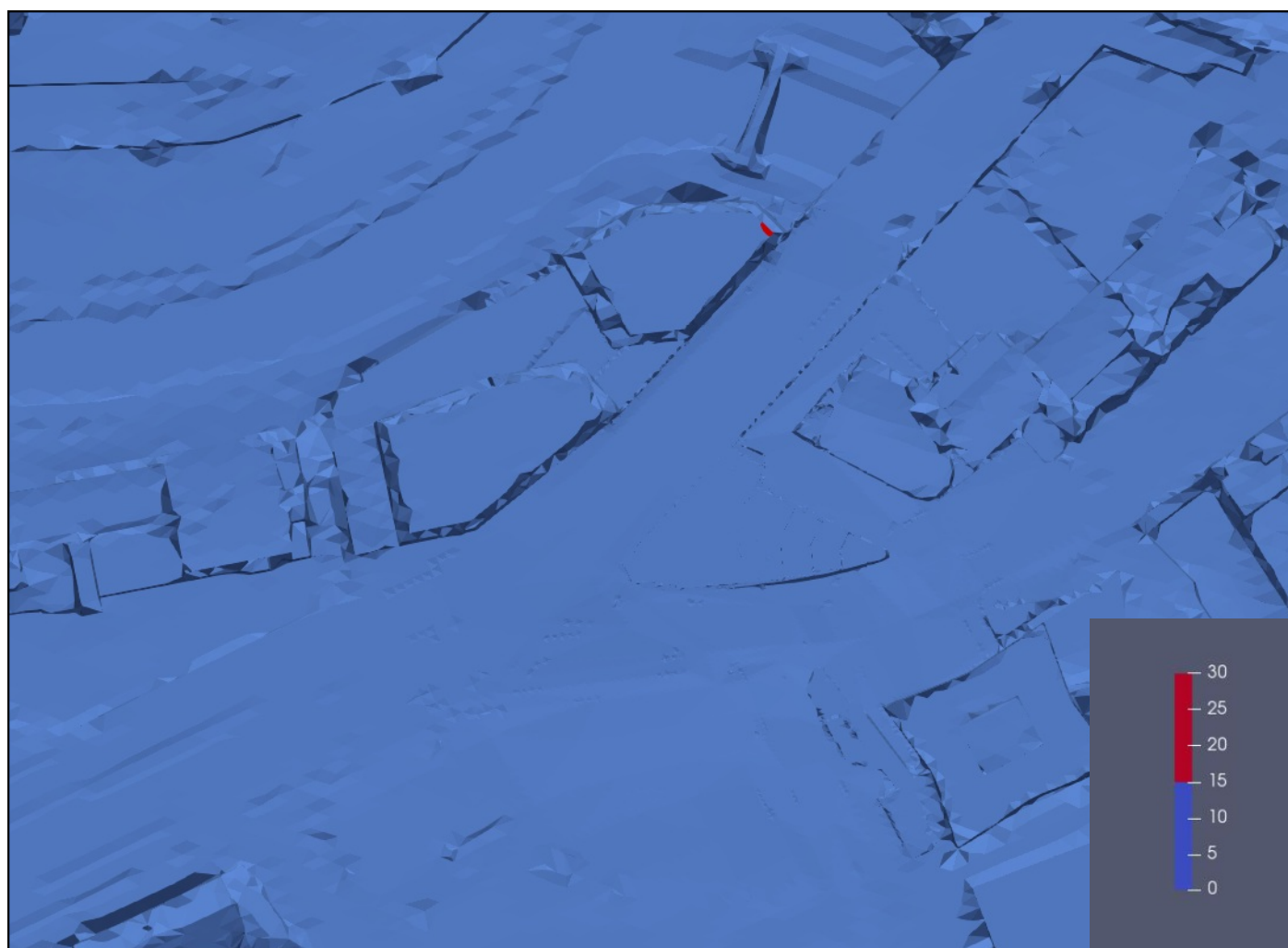
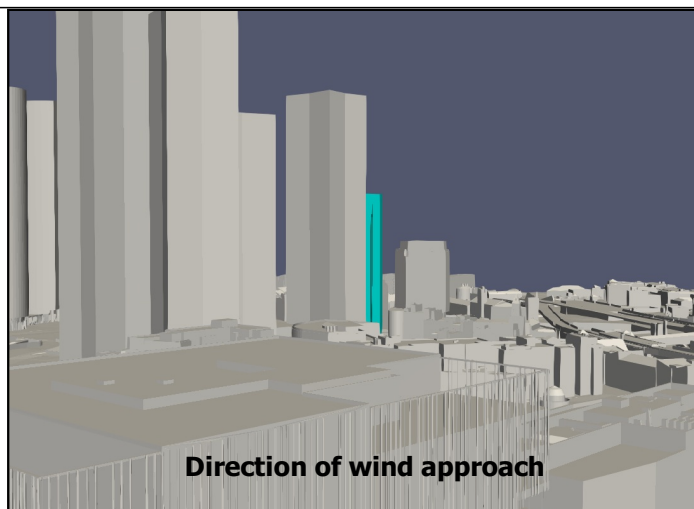
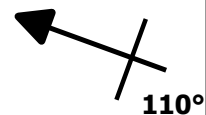
WIND_DIR_100_GM11393

Figure 11

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 110°



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CFD Model of Wind Flow at 110°
Deansgate South
Manchester

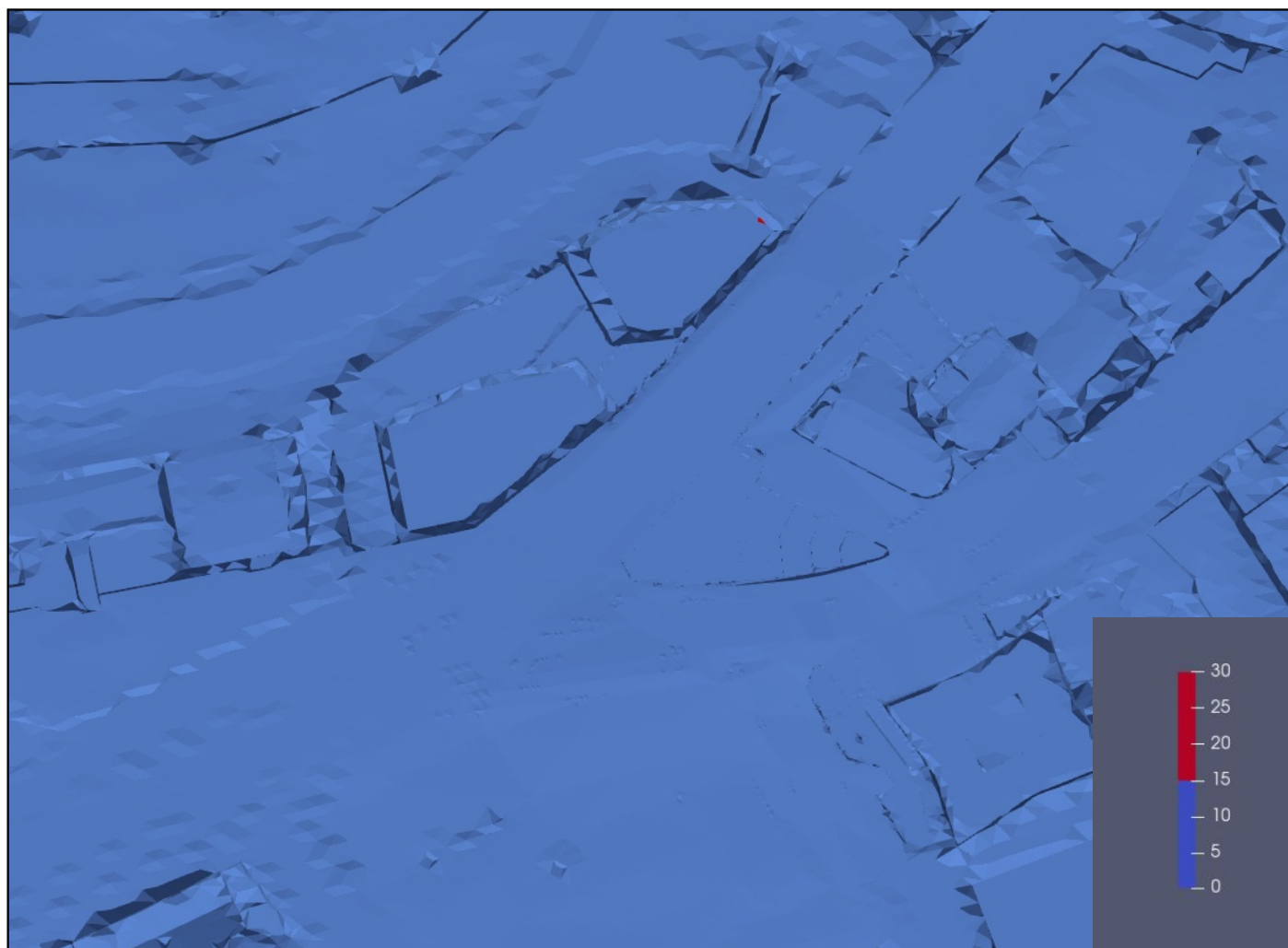
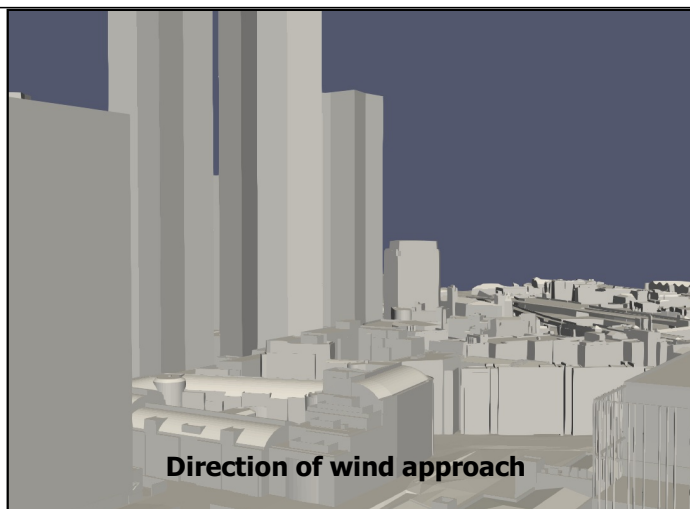
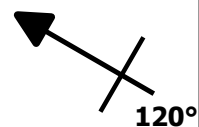
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Figure 12

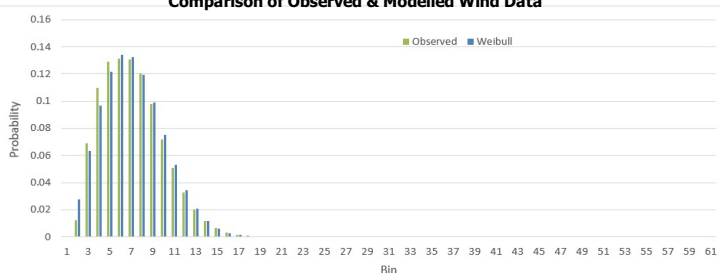
Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 120°



Comparison of Observed & Modelled Wind Data



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CFD Model of Wind Flow at 120°
Deansgate South
Manchester

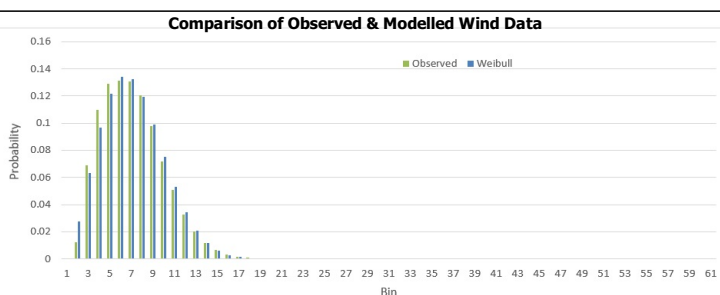
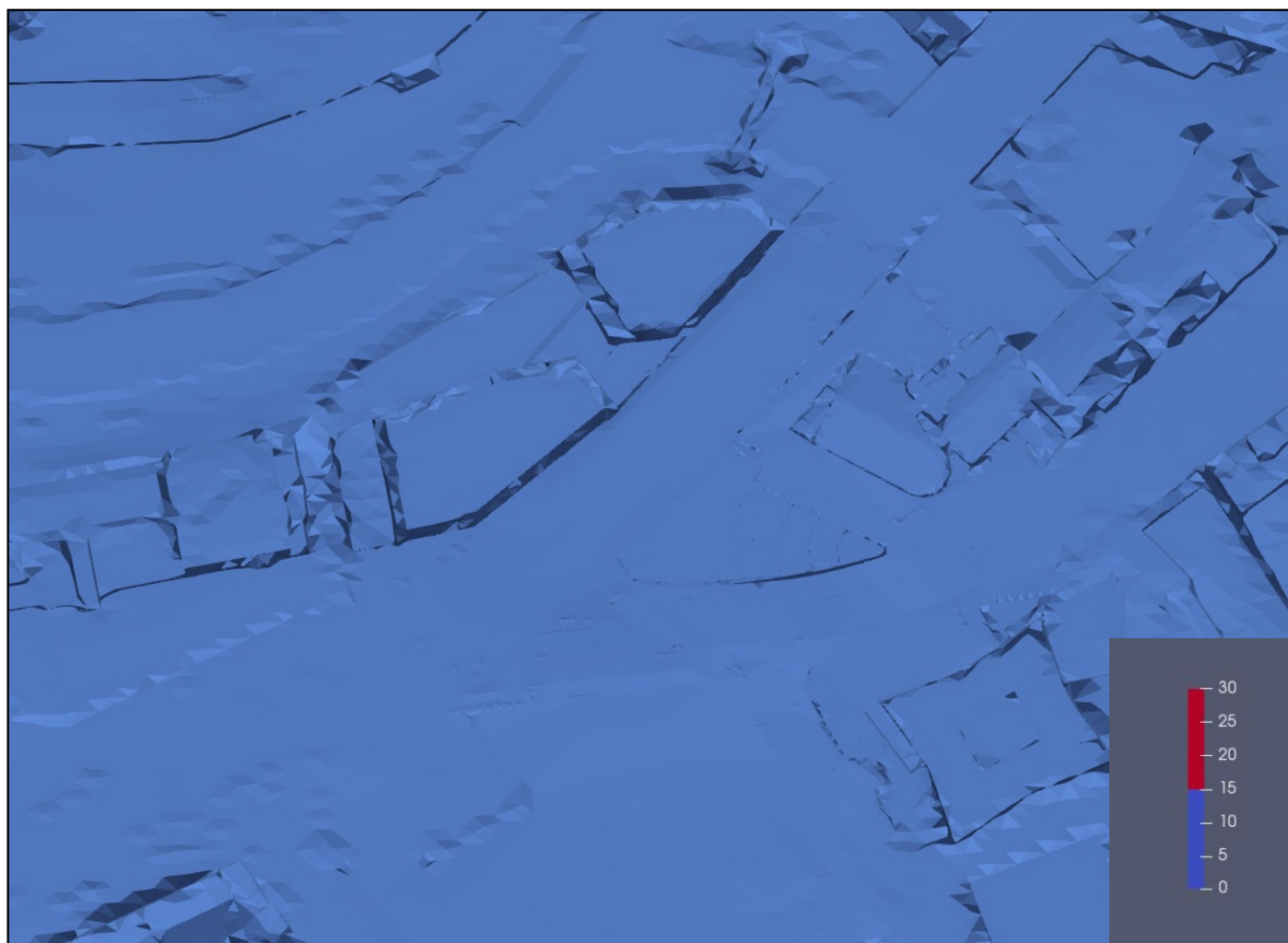
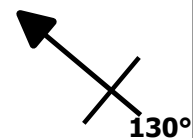
WIND_DIR_120_GM11393

Figure 13

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 130°



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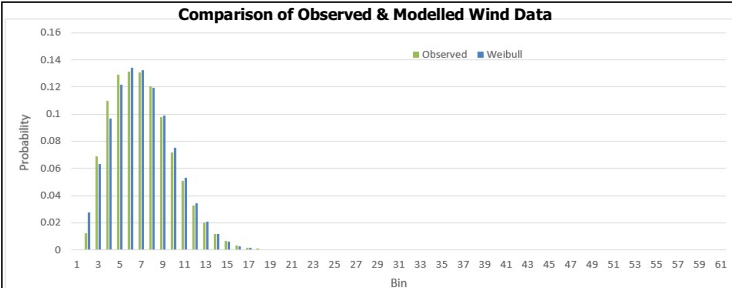
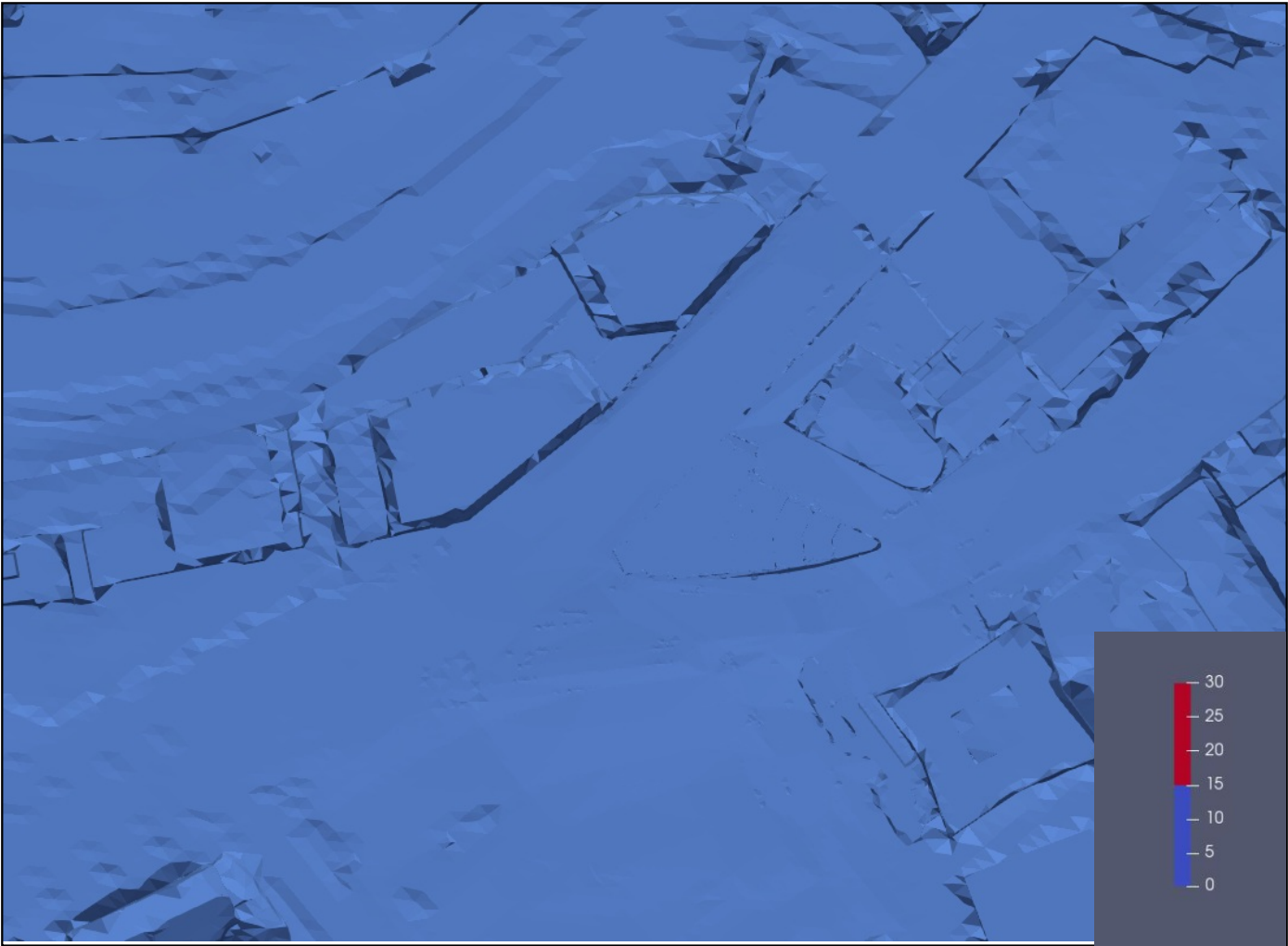
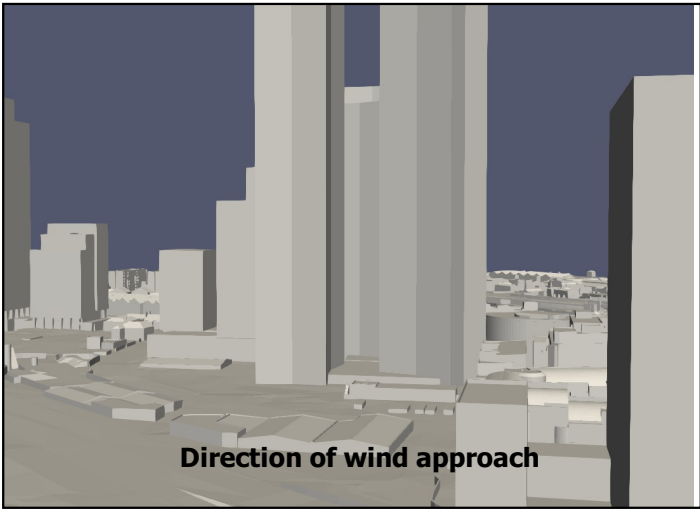
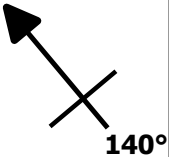
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 130°
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WIND_DIR_130_GM11393

Figure 14

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 140°



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Checked By: P.Evans

Date: 11/12/2020
Date: 11/12/2020

CFD Model of Wind Flow at 140°
Deansgate South
Manchester

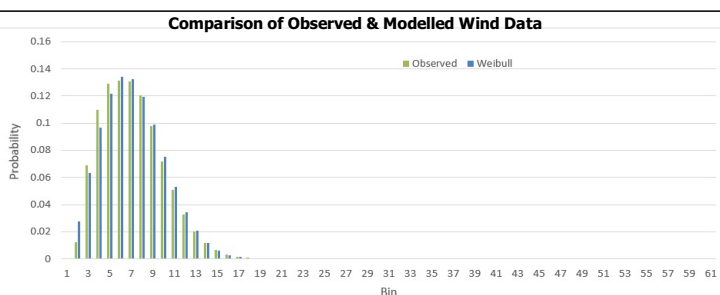
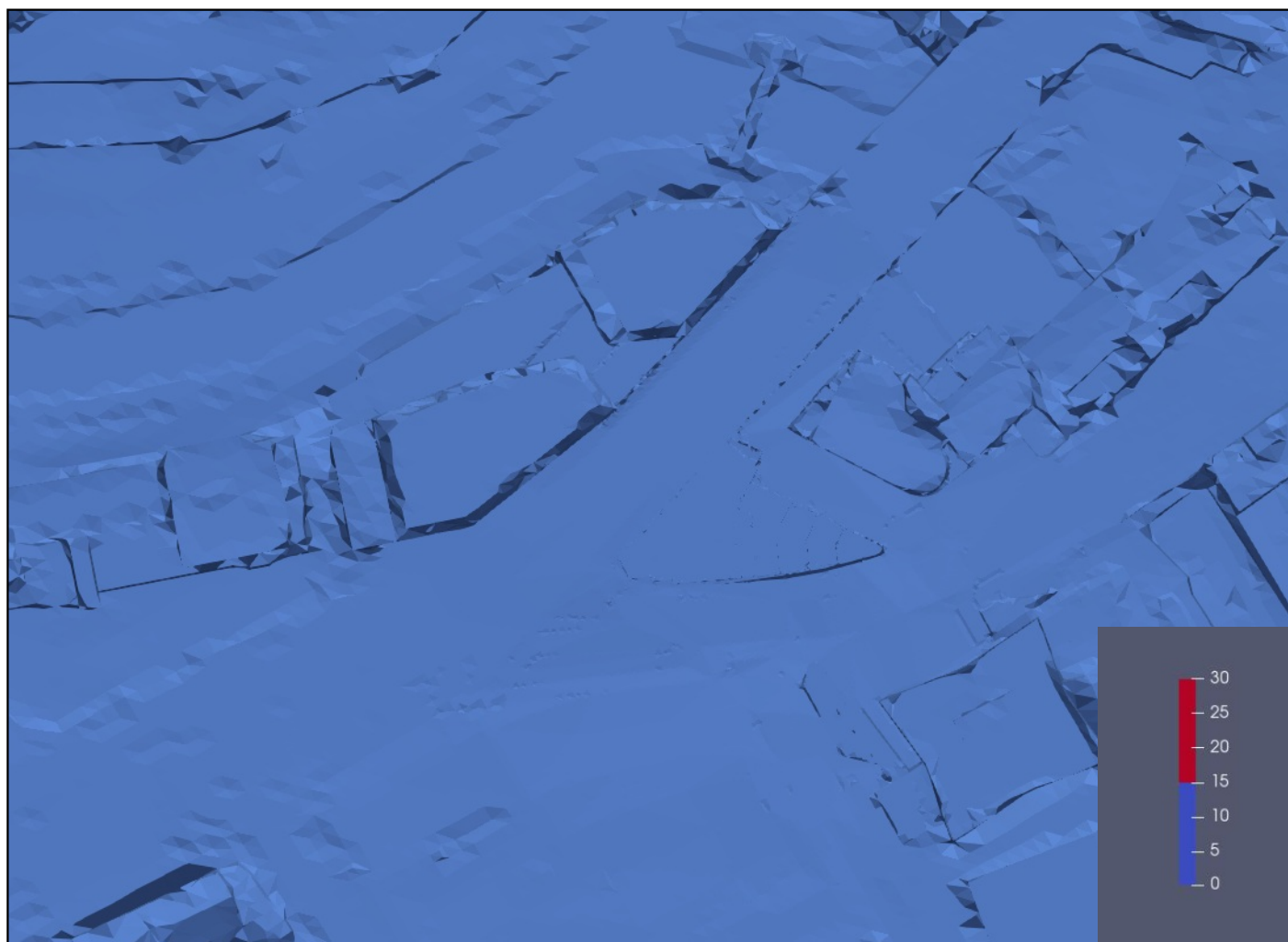
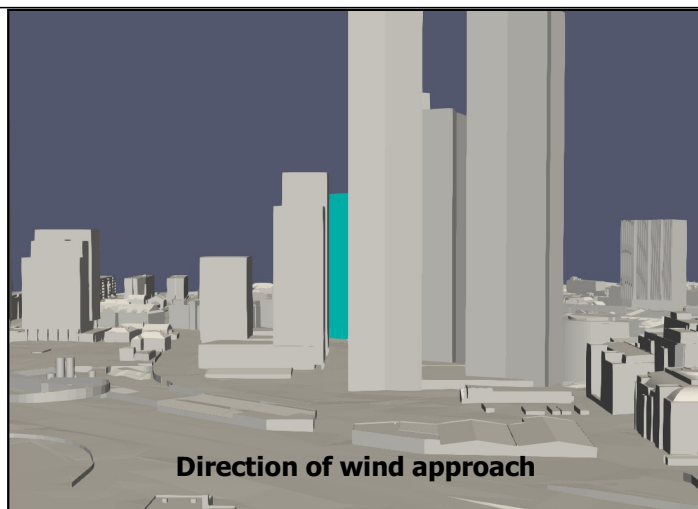
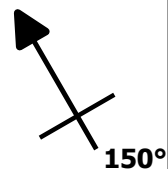
WIND_DIR_140_GM11393

Figure 15

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 150°



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CFD Model of Wind Flow at 150°
Deansgate South
Manchester

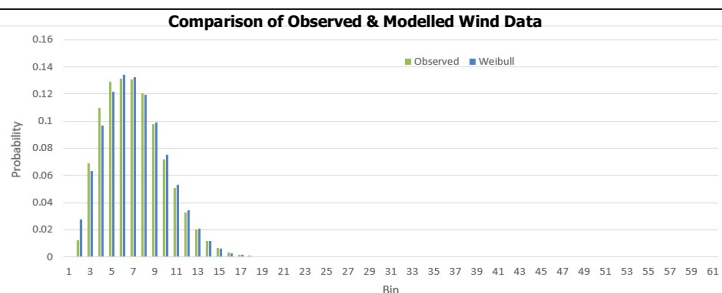
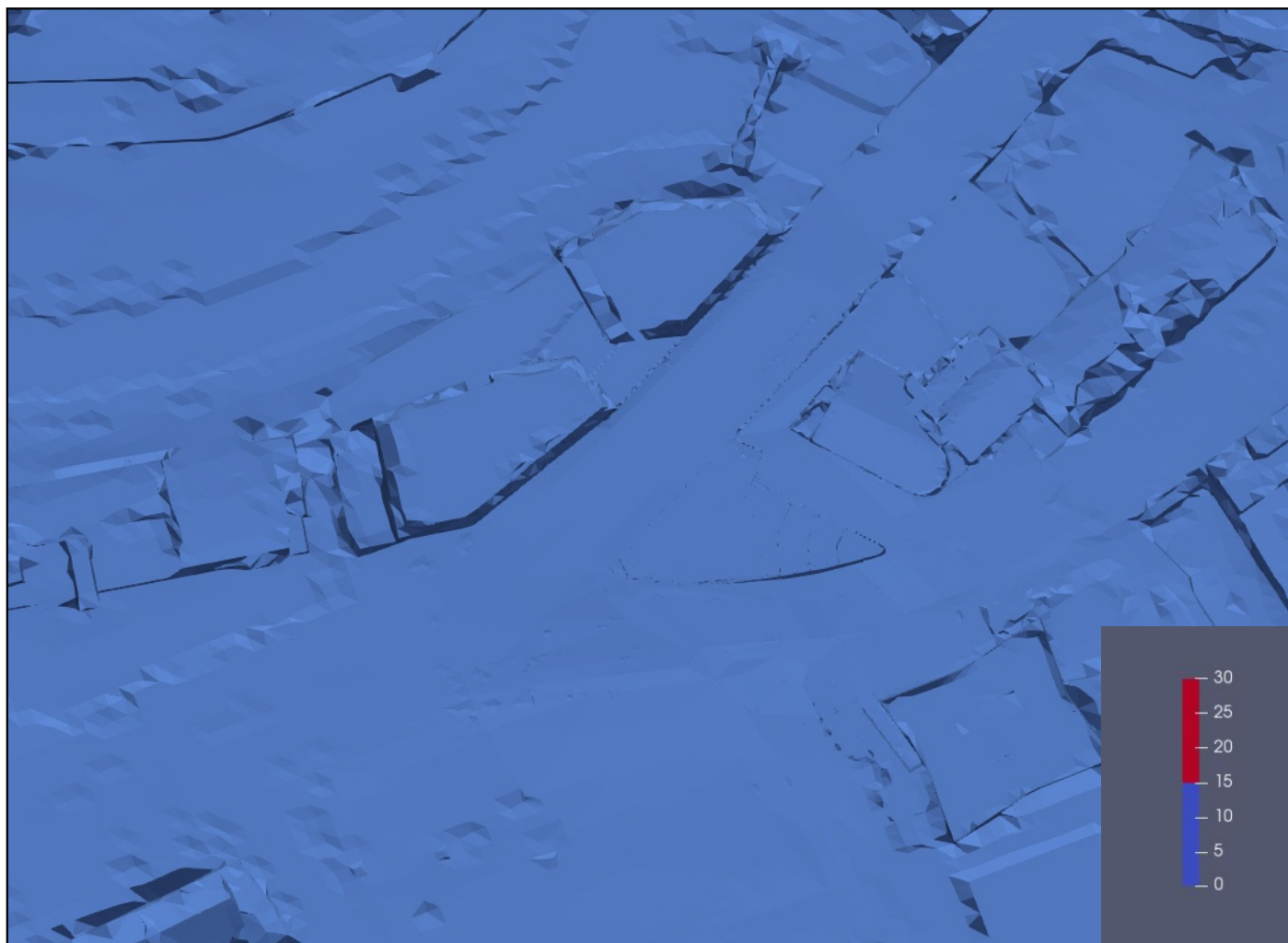
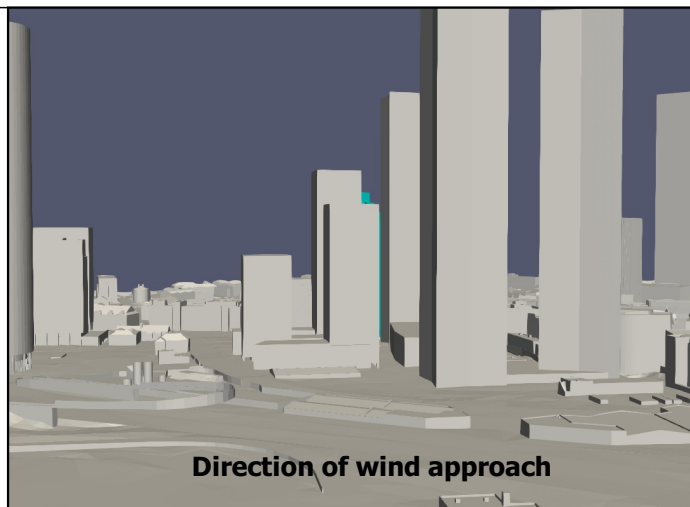
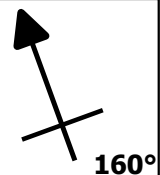
WIND_DIR_150_GM11393

Figure 16

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 160°



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CFD Model of Wind Flow at 160°
Deansgate South
Manchester

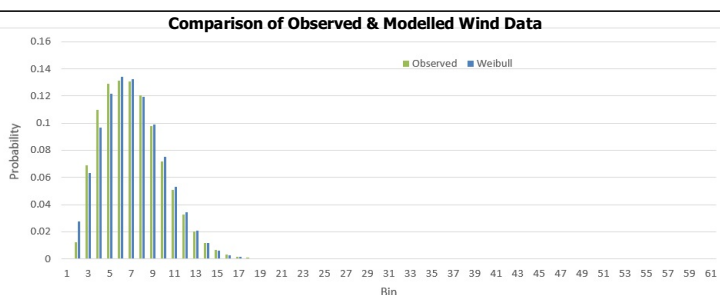
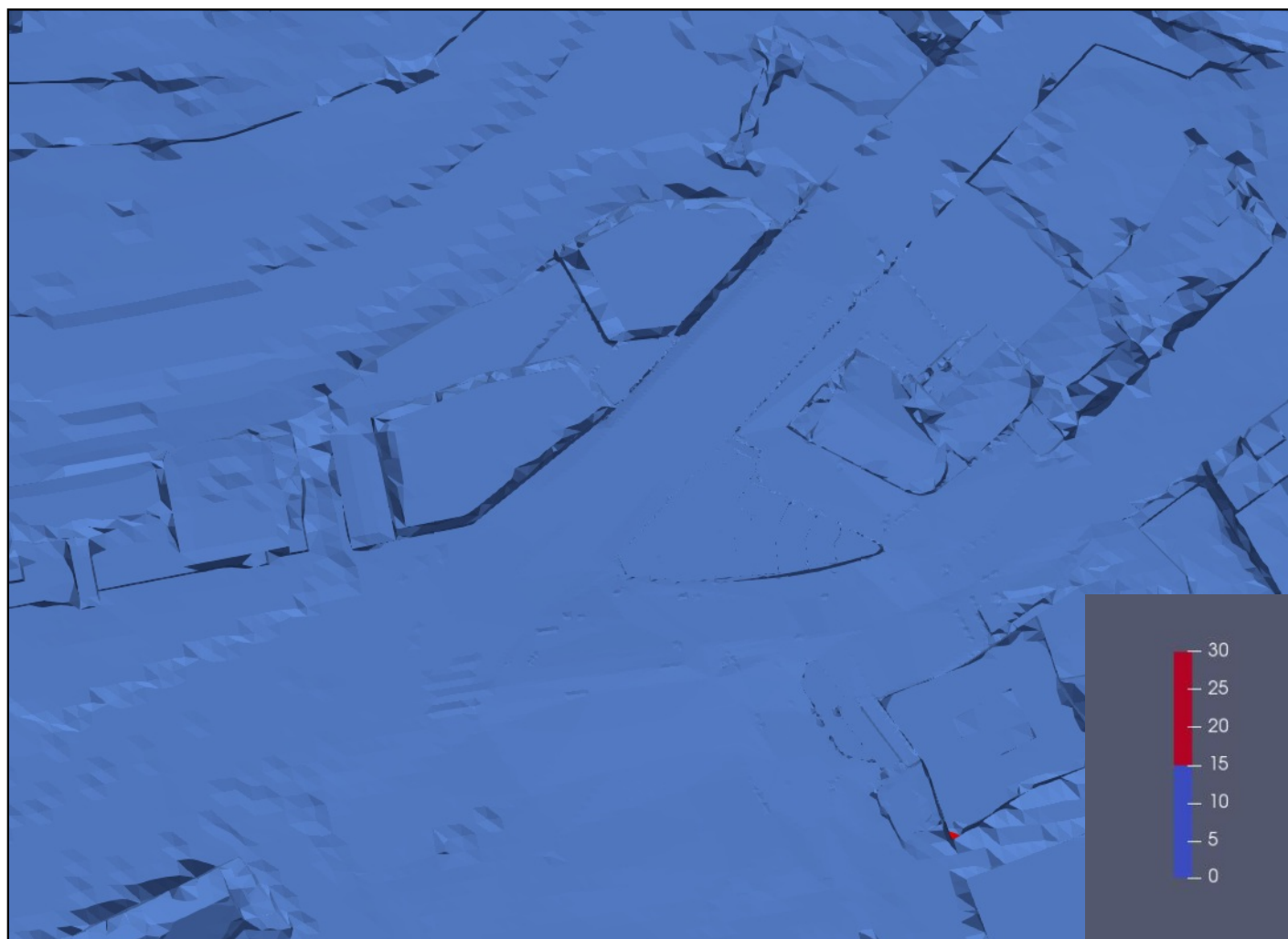
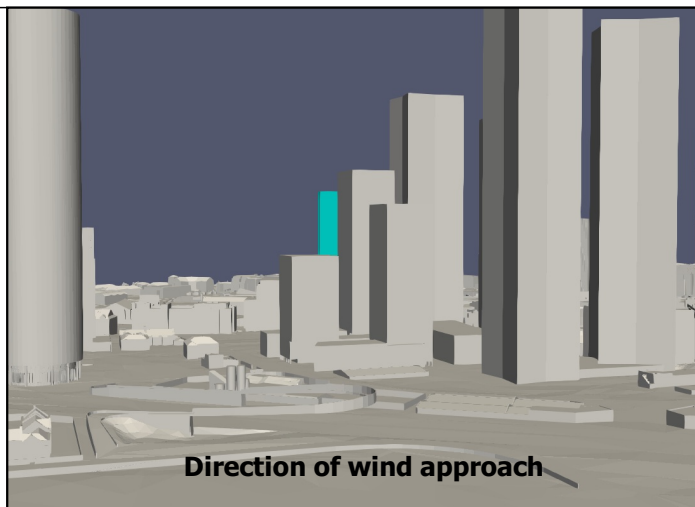
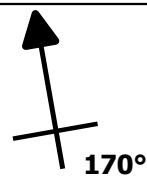
WIND_DIR_160_GM11393

Figure 17

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 170°



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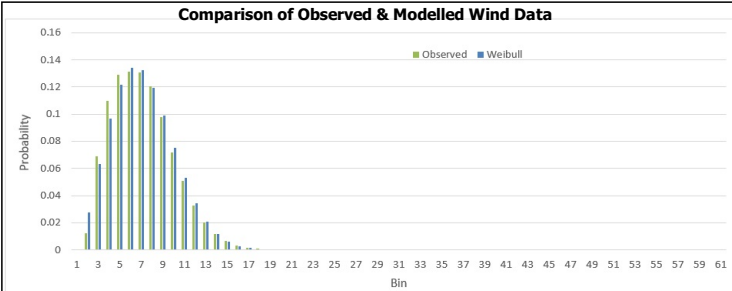
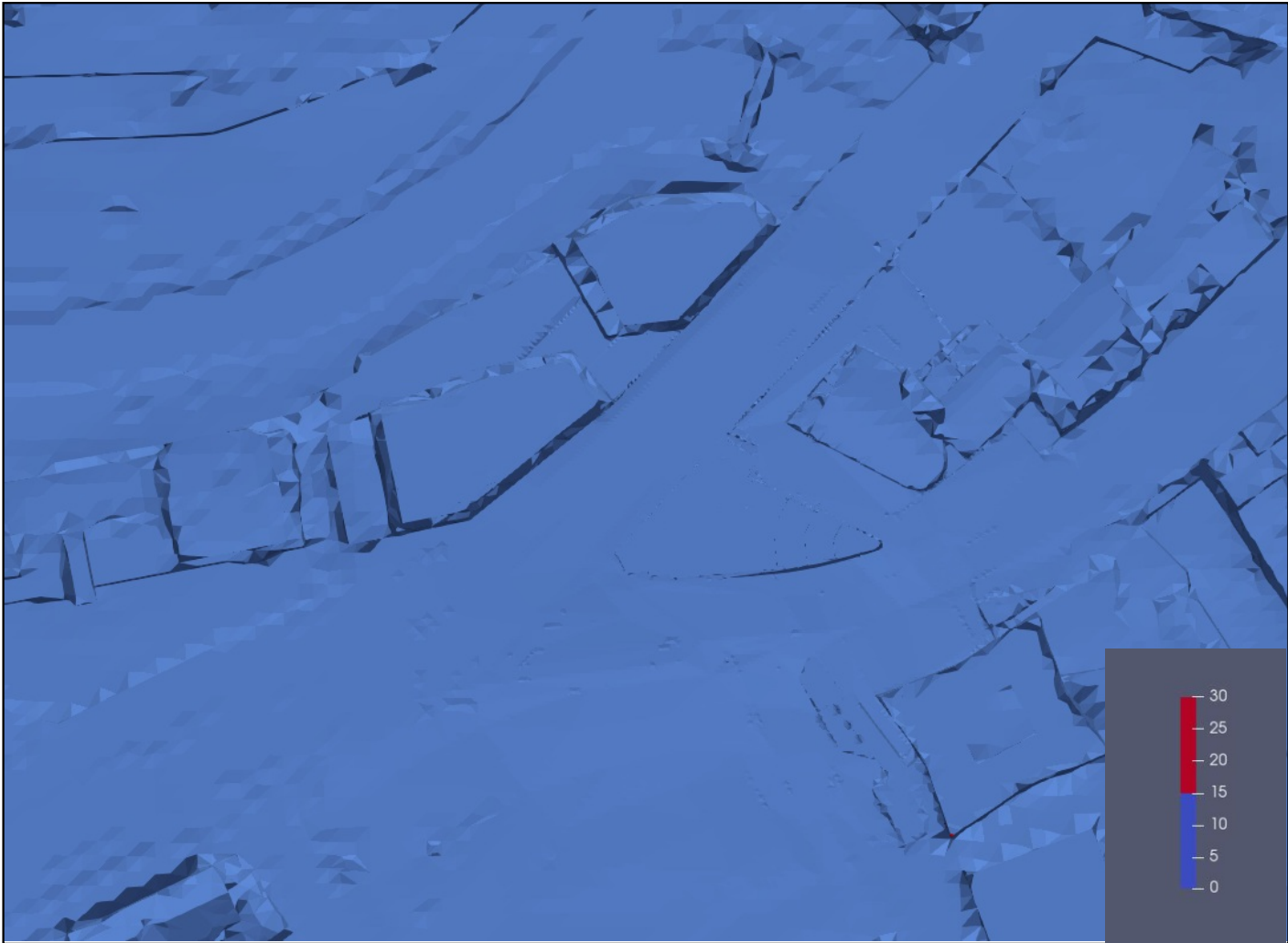
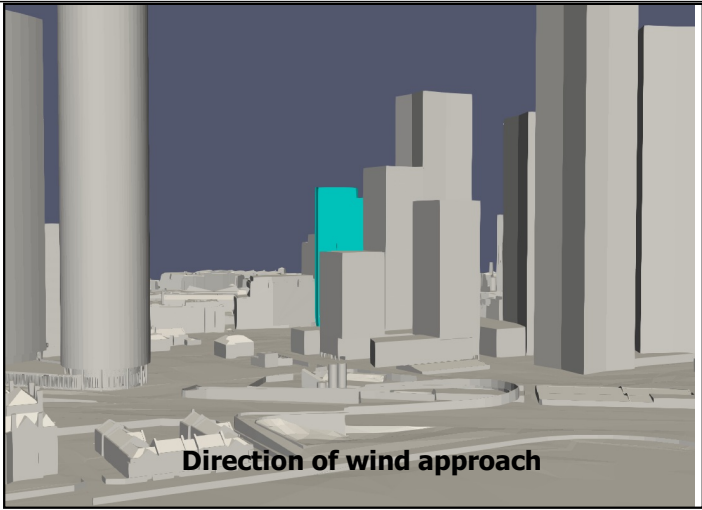
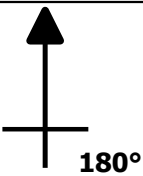
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 170°
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WIND_DIR_170_GM11393

Figure 18

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 180°



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CFD Model of Wind Flow at 180°
Deansgate South
Manchester

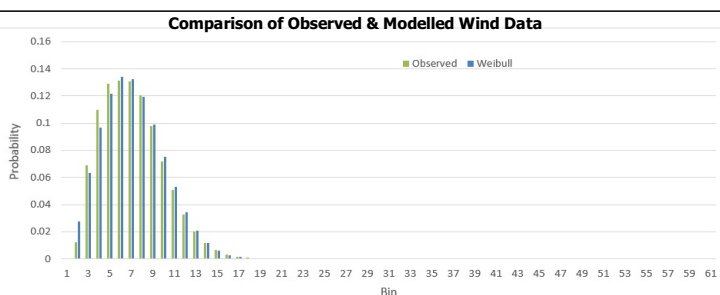
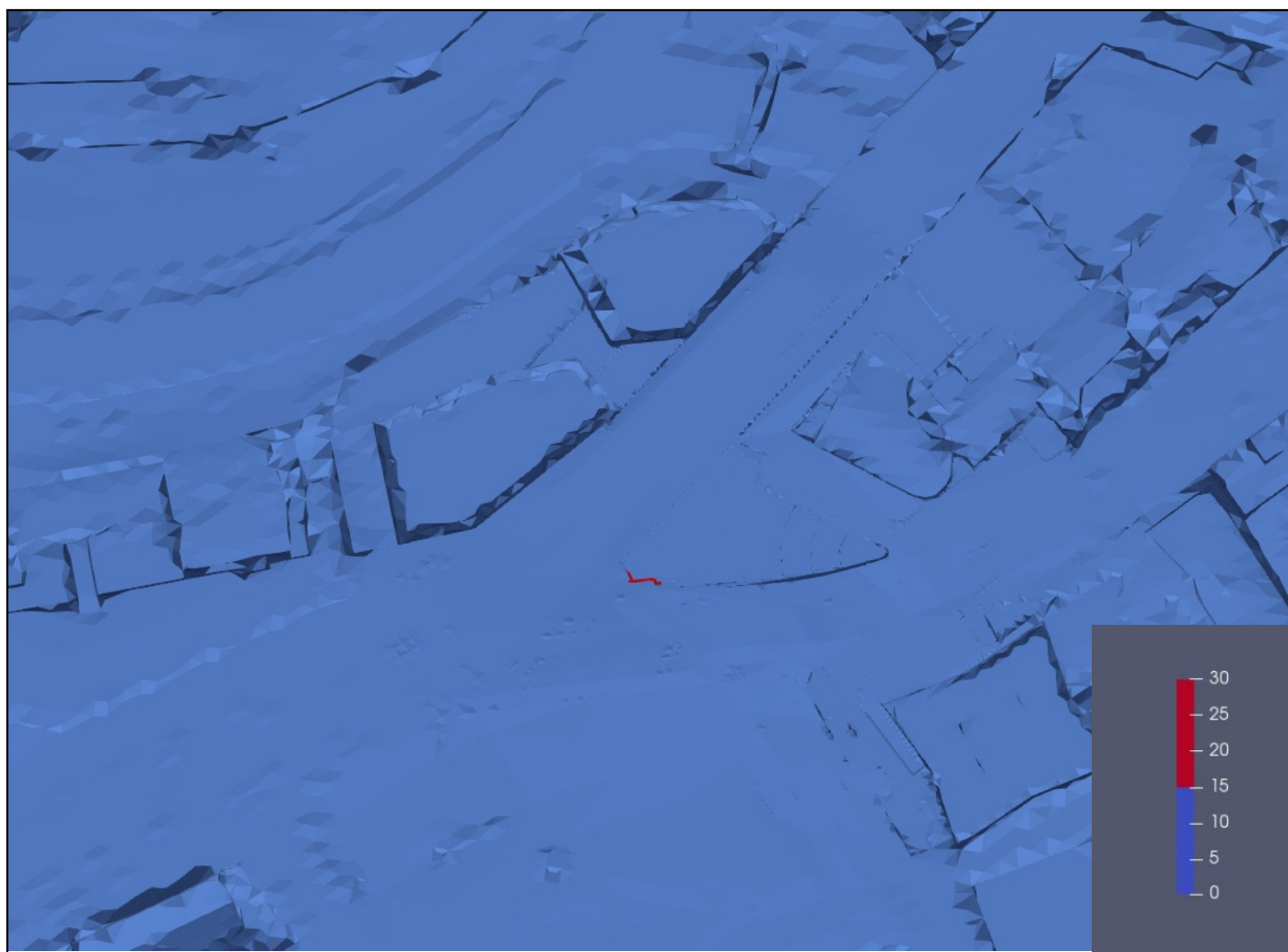
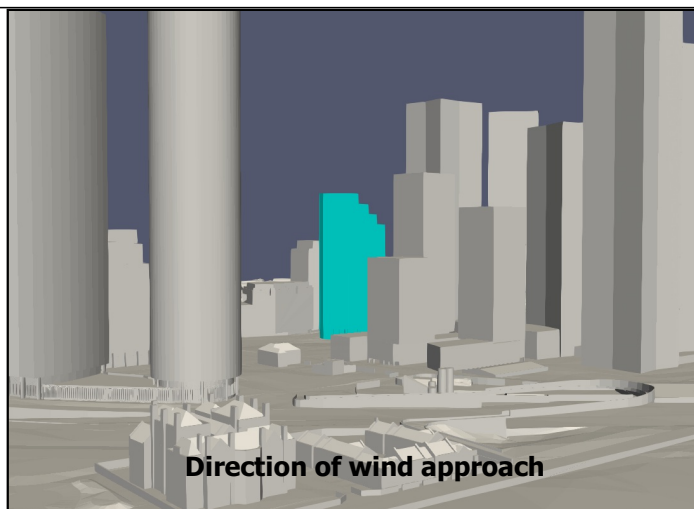
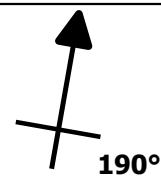
WIND_DIR_180_GM11393

Figure 19

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 190°



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CFD Model of Wind Flow at 190°
Deansgate South
Manchester

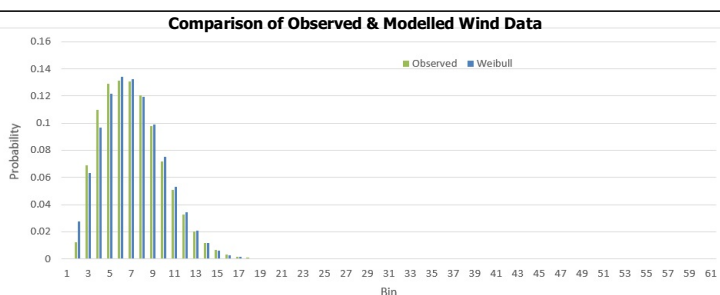
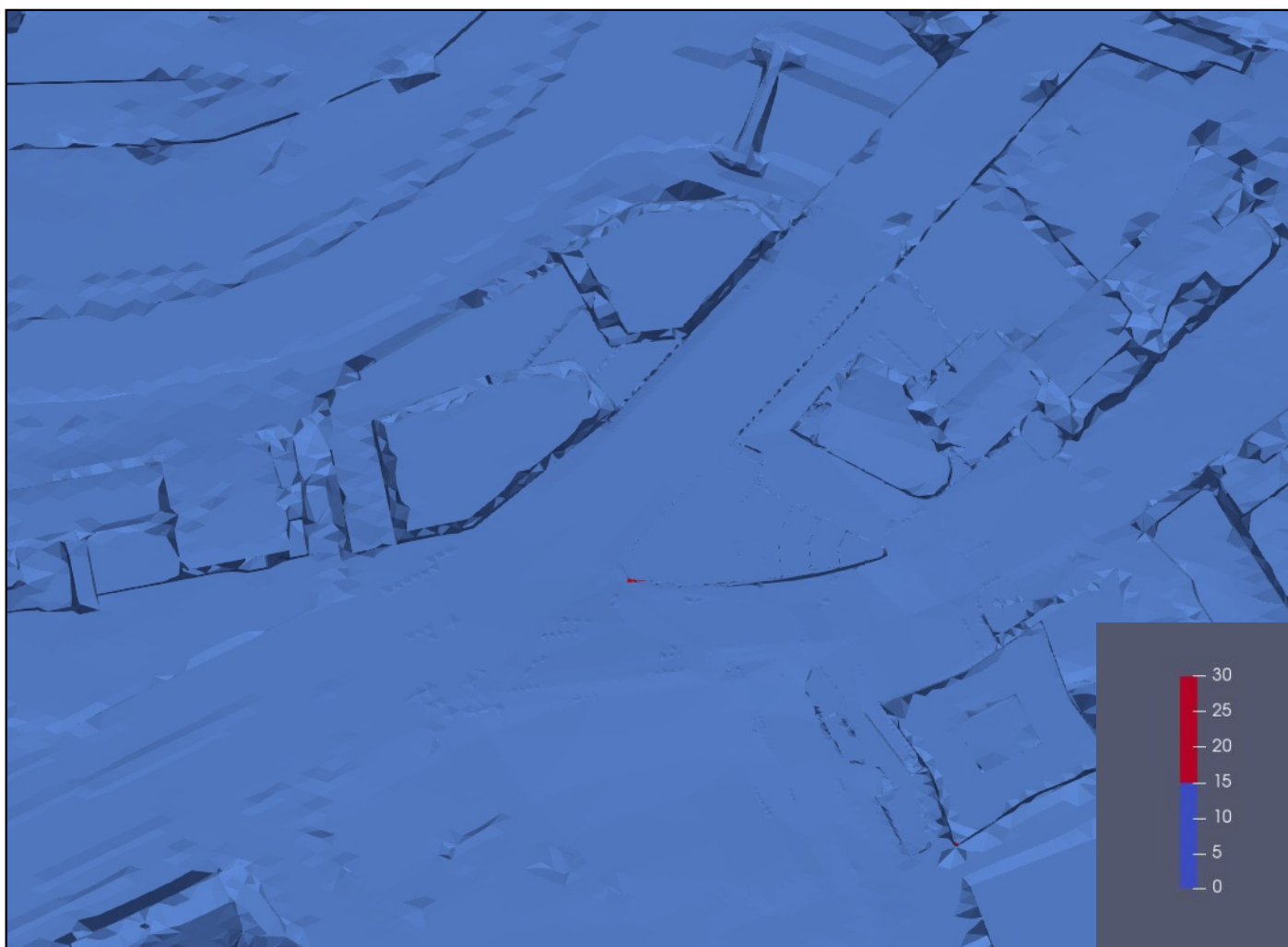
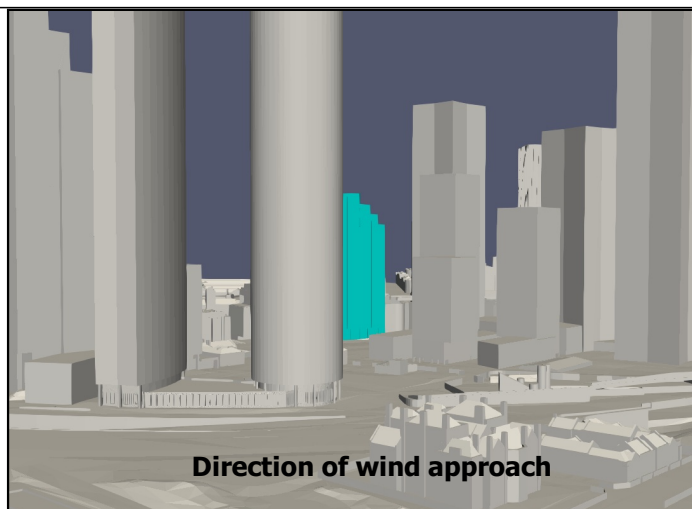
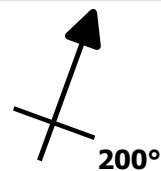
WIND_DIR_190_GM11393

Figure 20

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 200°



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Checked By: P.Evans Date: 11/12/2020

CFD Model of Wind Flow at 200°
Deansgate South
Manchester

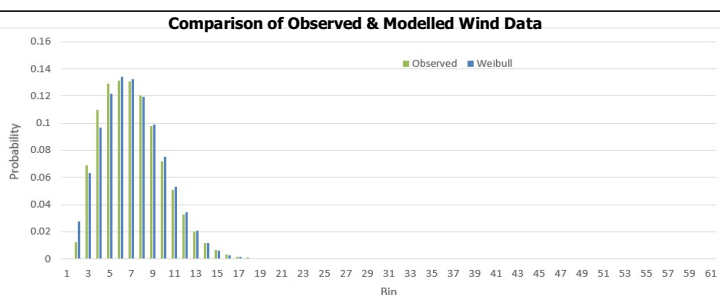
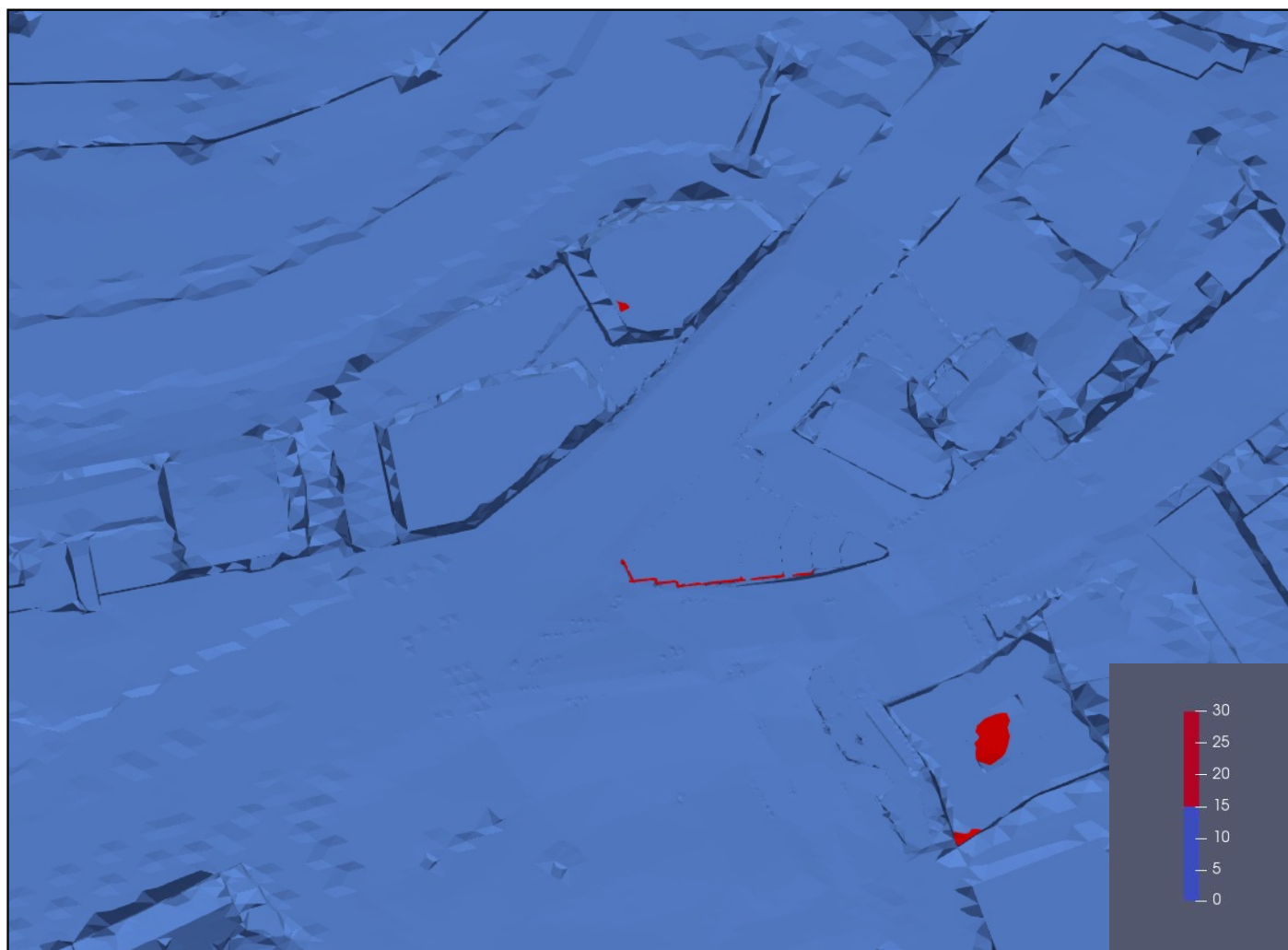
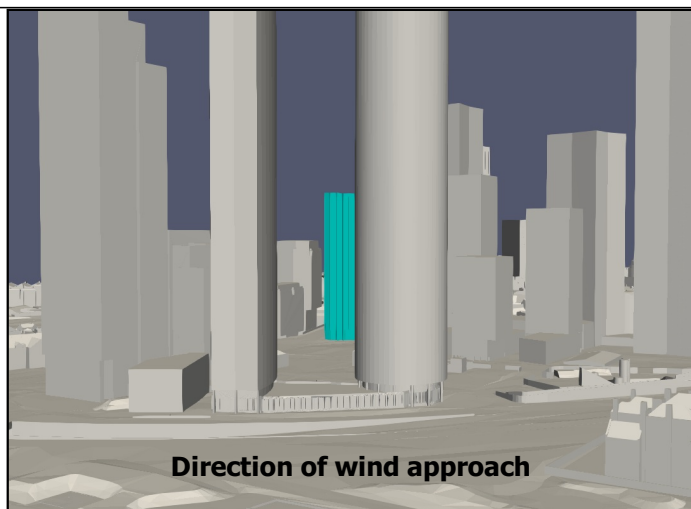
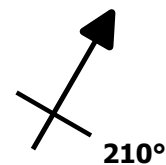
WIND_DIR_200_GM11393

Figure 21

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 210°



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CFD Model of Wind Flow at 210°
Deansgate South
Manchester

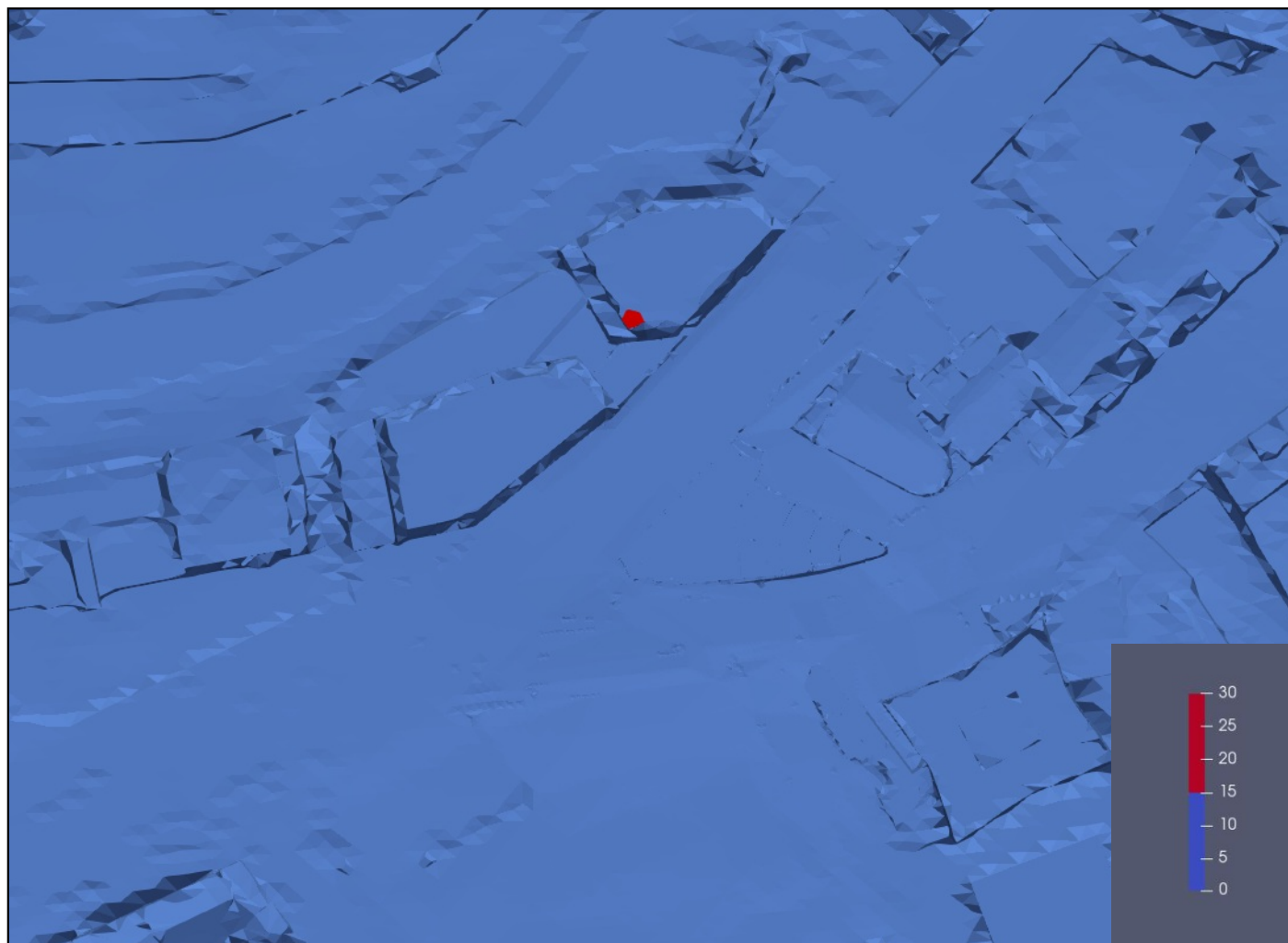
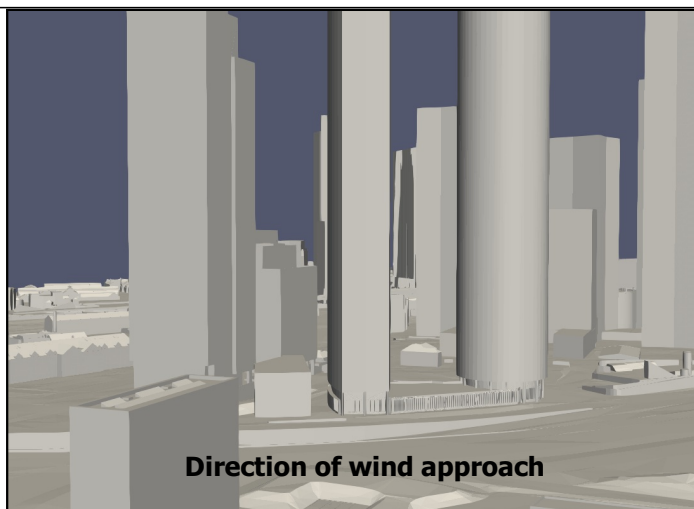
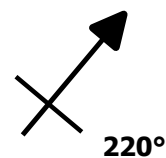
WIND_DIR_210_GM11393

Figure 22

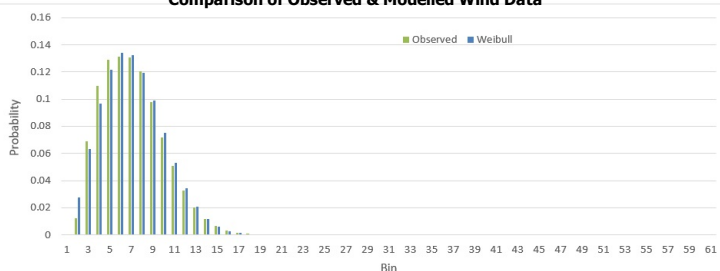
Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 220°



Comparison of Observed & Modelled Wind Data



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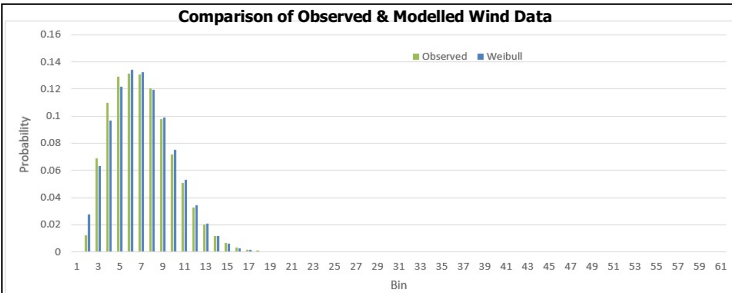
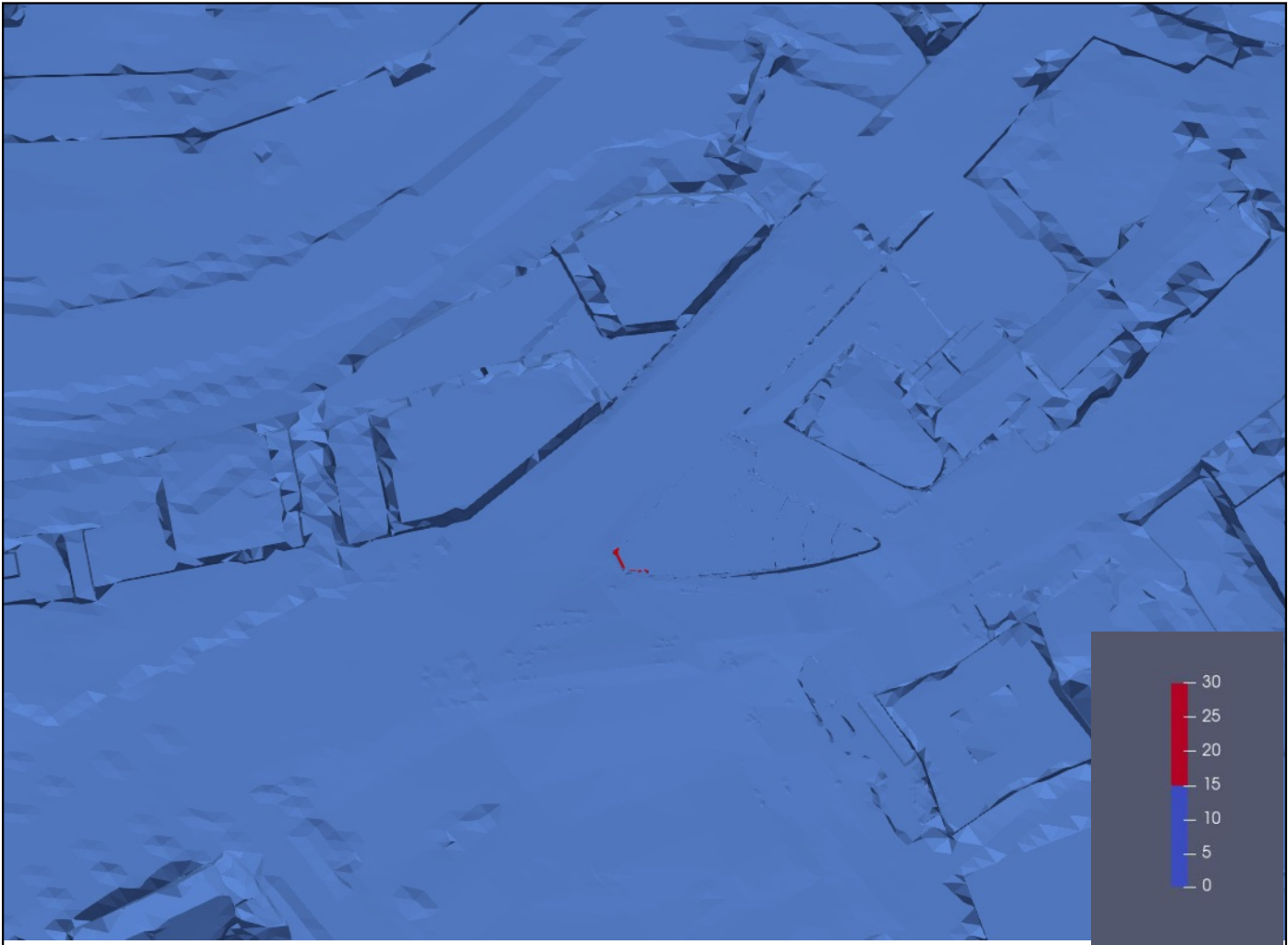
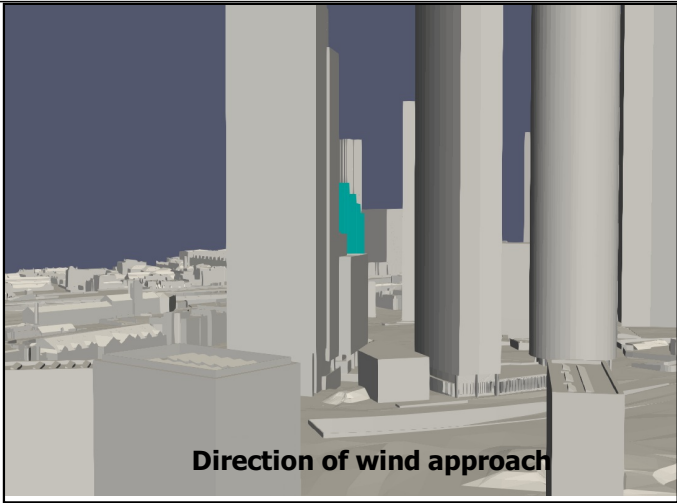
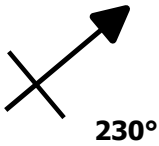
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 220°
Deansgate South
Manchester

WIND_DIR_220_GM11393

Figure 23

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 230°



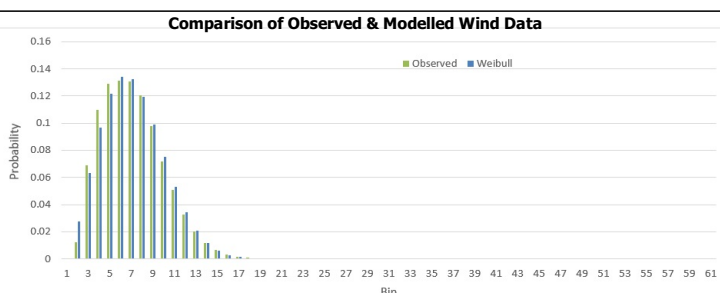
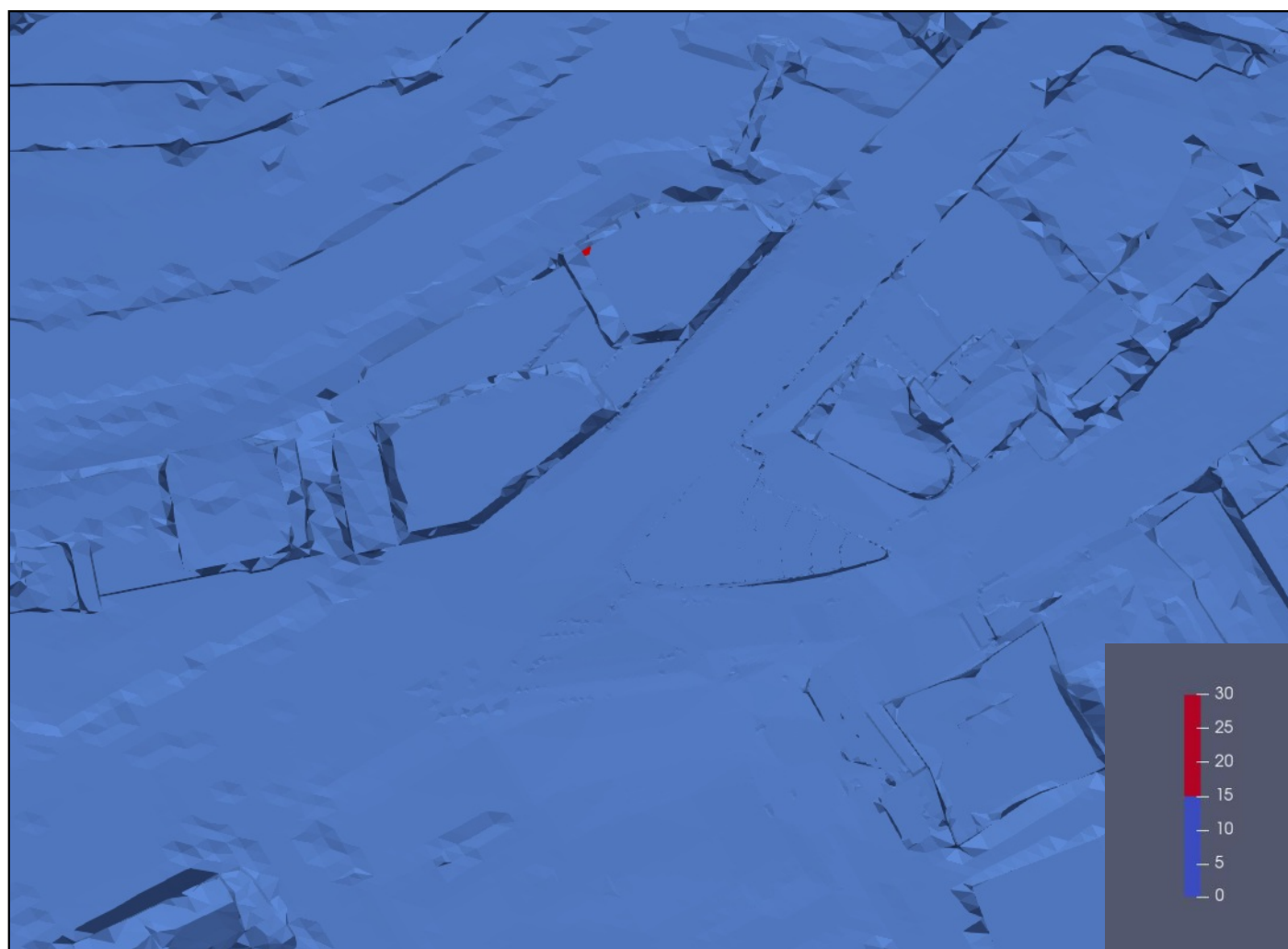
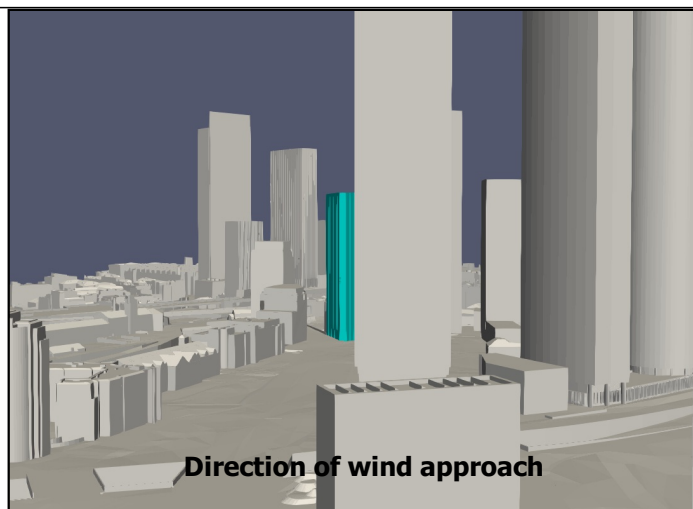
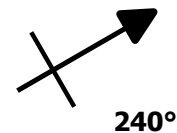
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		Checked By: P.Evans	Date: 11/12/2020
		CFD Model of Wind Flow at 230° Deansgate South Manchester	
WIND_DIR_230_GM11393			Figure 24

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 240°



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CFD Model of Wind Flow at 240°
Deansgate South
Manchester

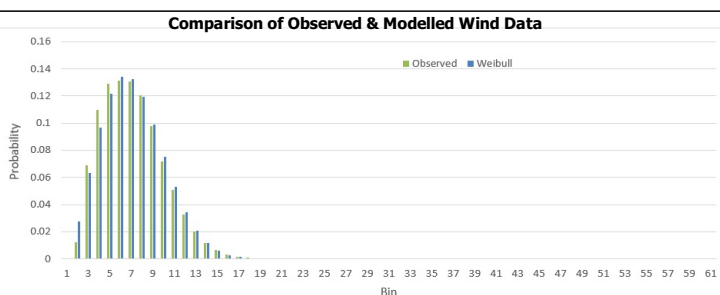
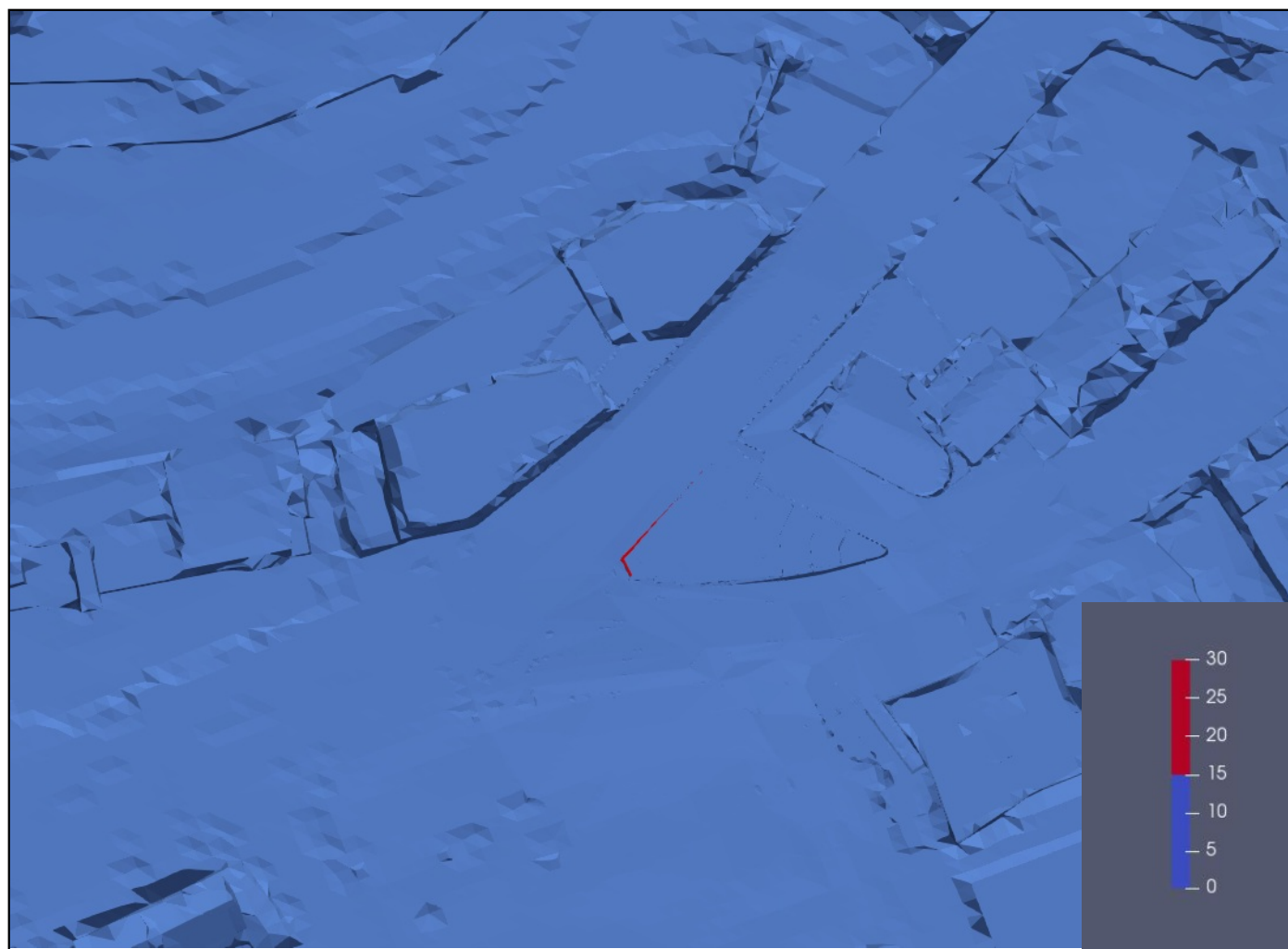
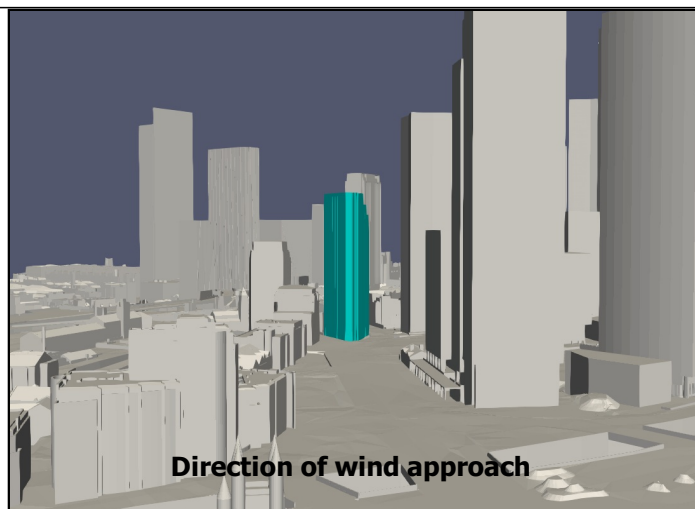
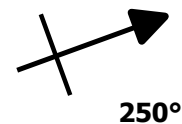
WIND_DIR_240_GM11393

Figure 25

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 250°



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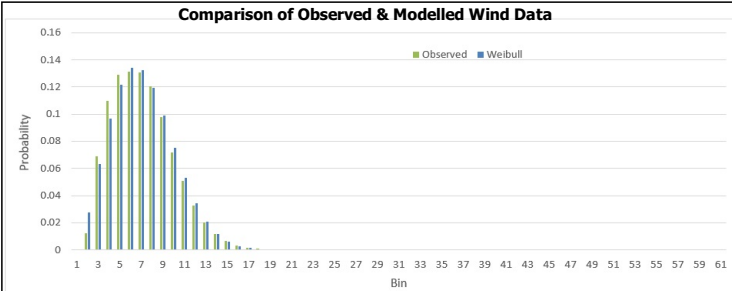
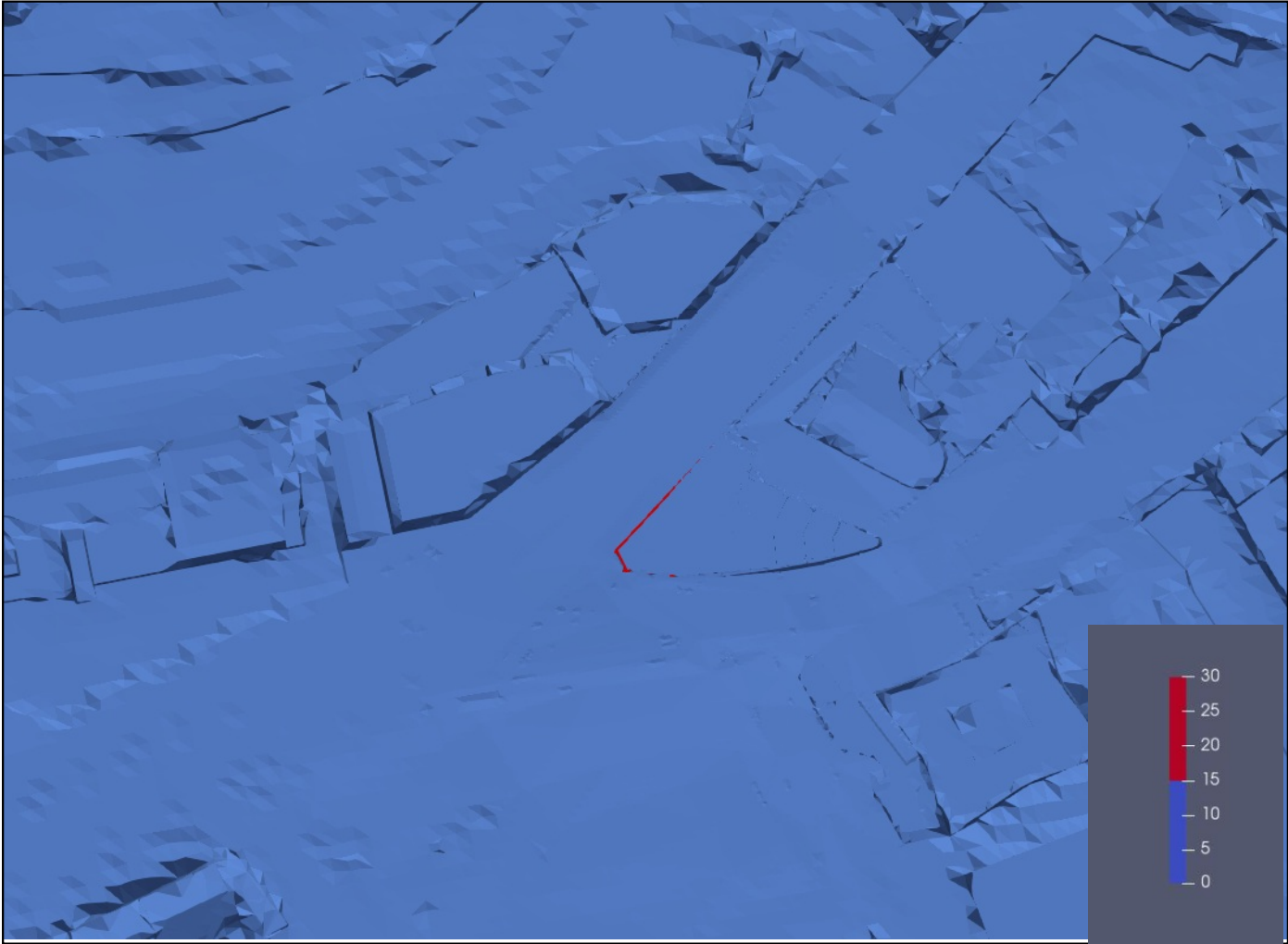
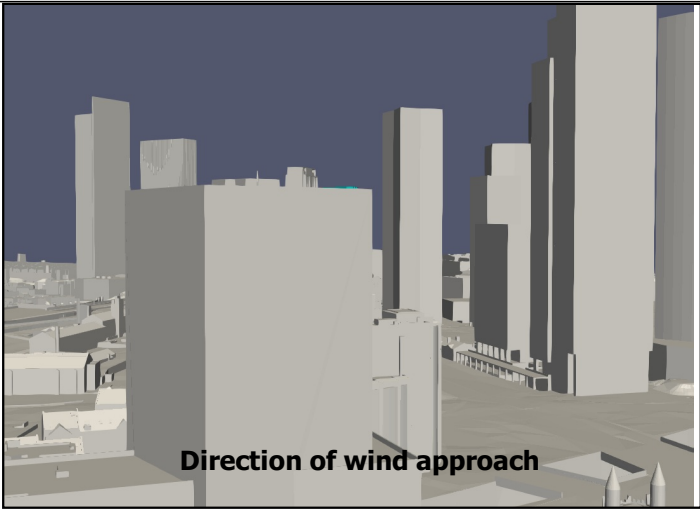
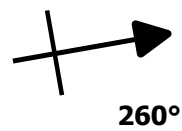
Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 250°
Deansgate South
Manchester

WIND_DIR_250_GM11393

Figure 26

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 260°

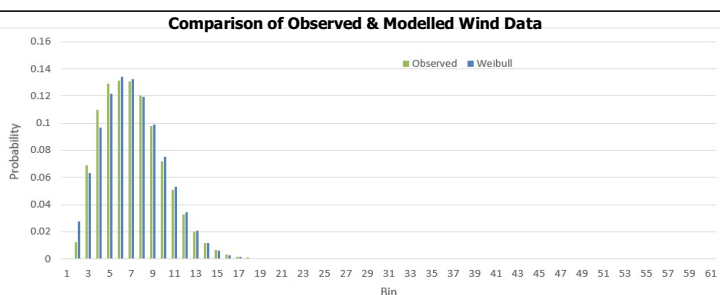
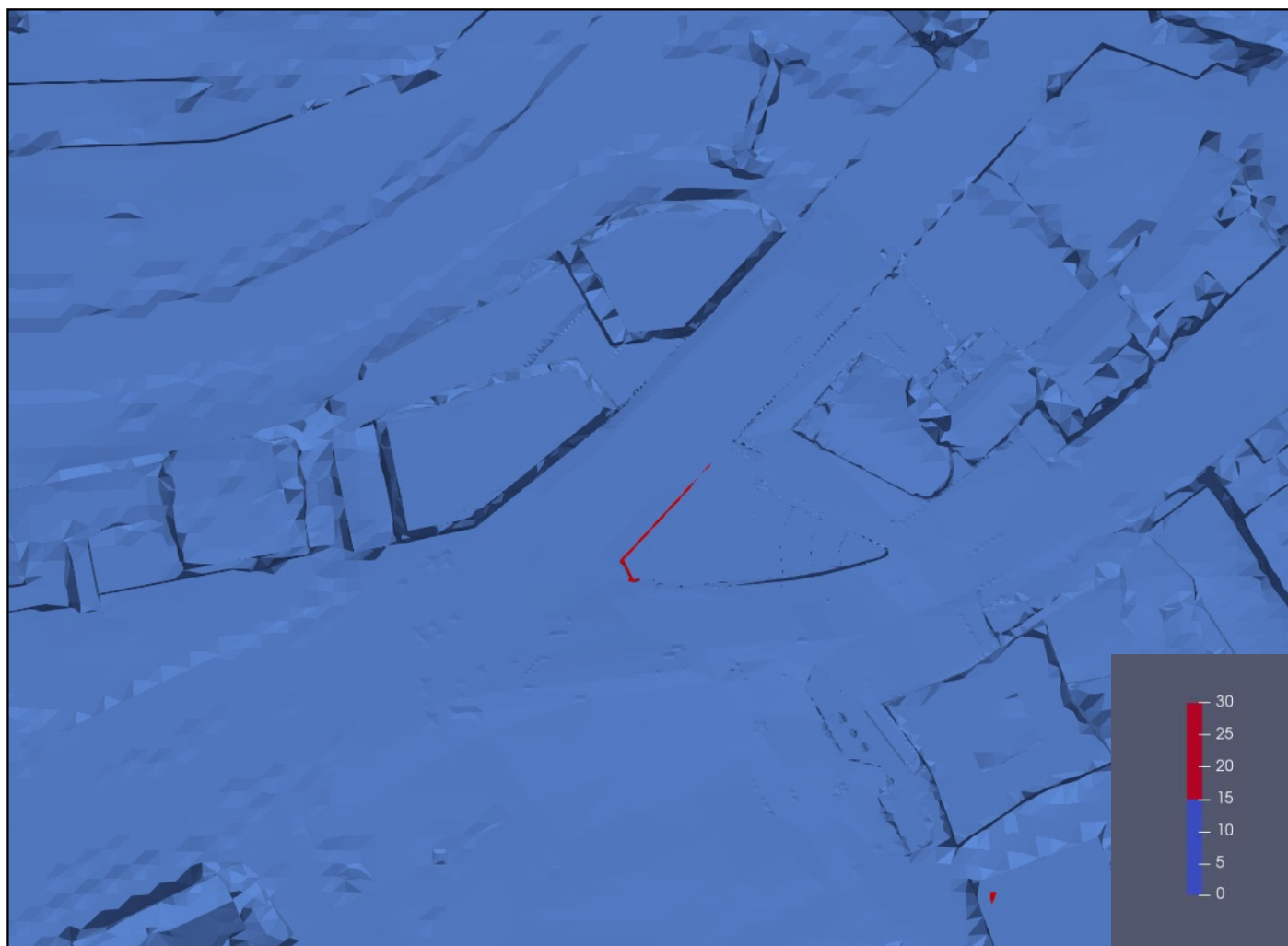
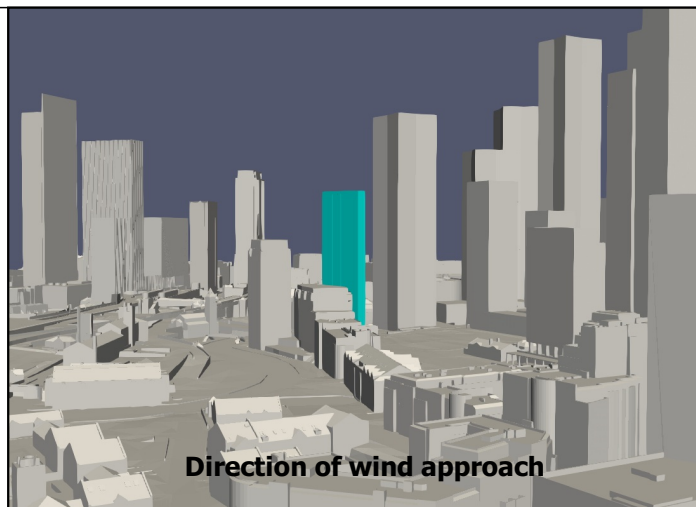
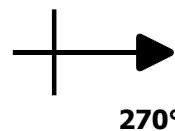


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CFD Model of Wind Flow at 260° Deansgate South Manchester	
WIND_DIR_260_GM11393	Figure 27

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 270°



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CFD Model of Wind Flow at 270°
Deansgate South
Manchester

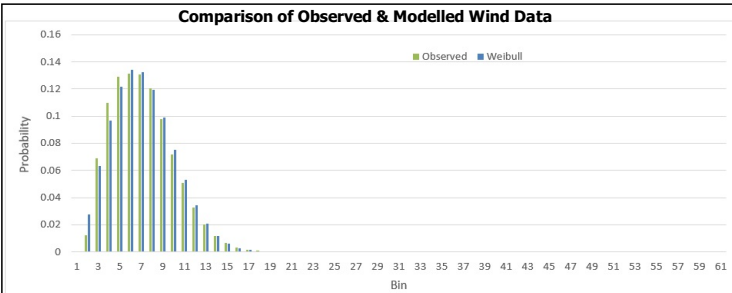
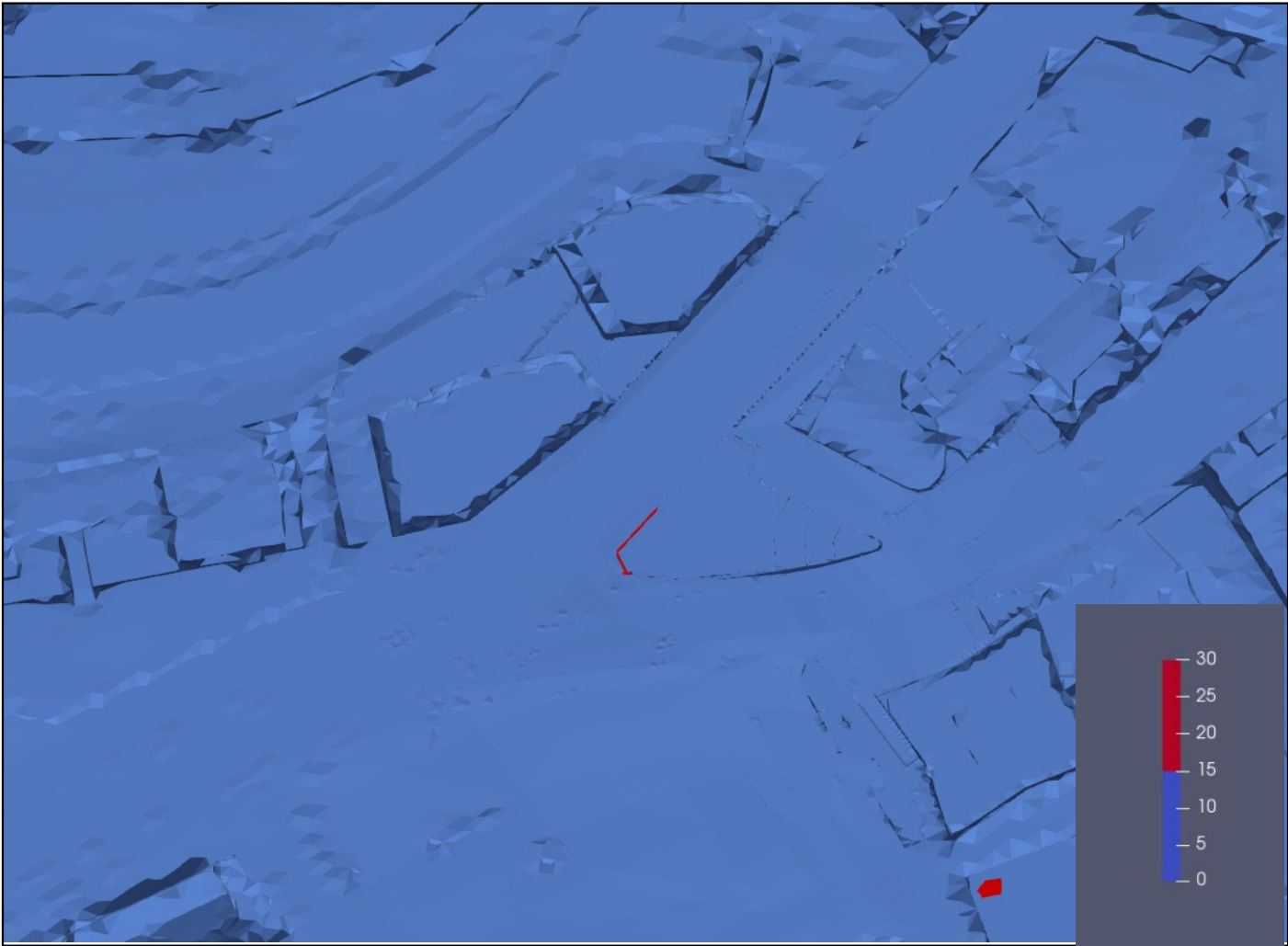
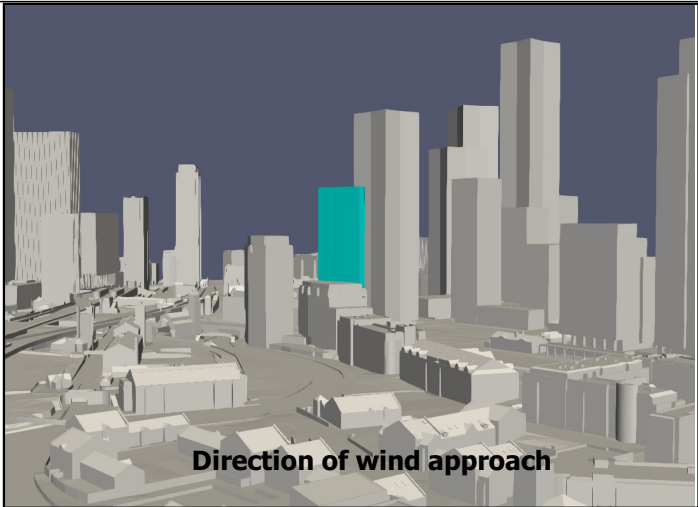
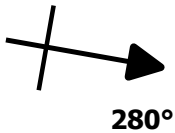
WIND_DIR_270_GM11393

Figure 28

Deansgate South, Manchester

Wind Microclimate Assessment

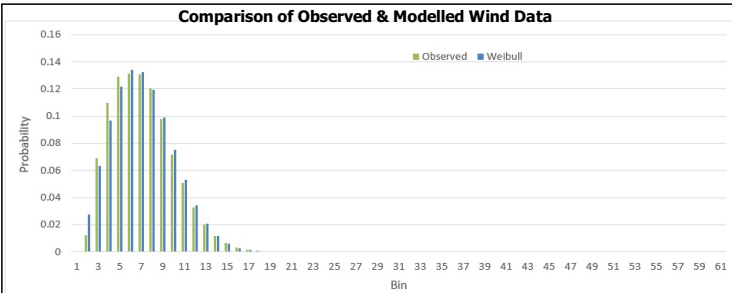
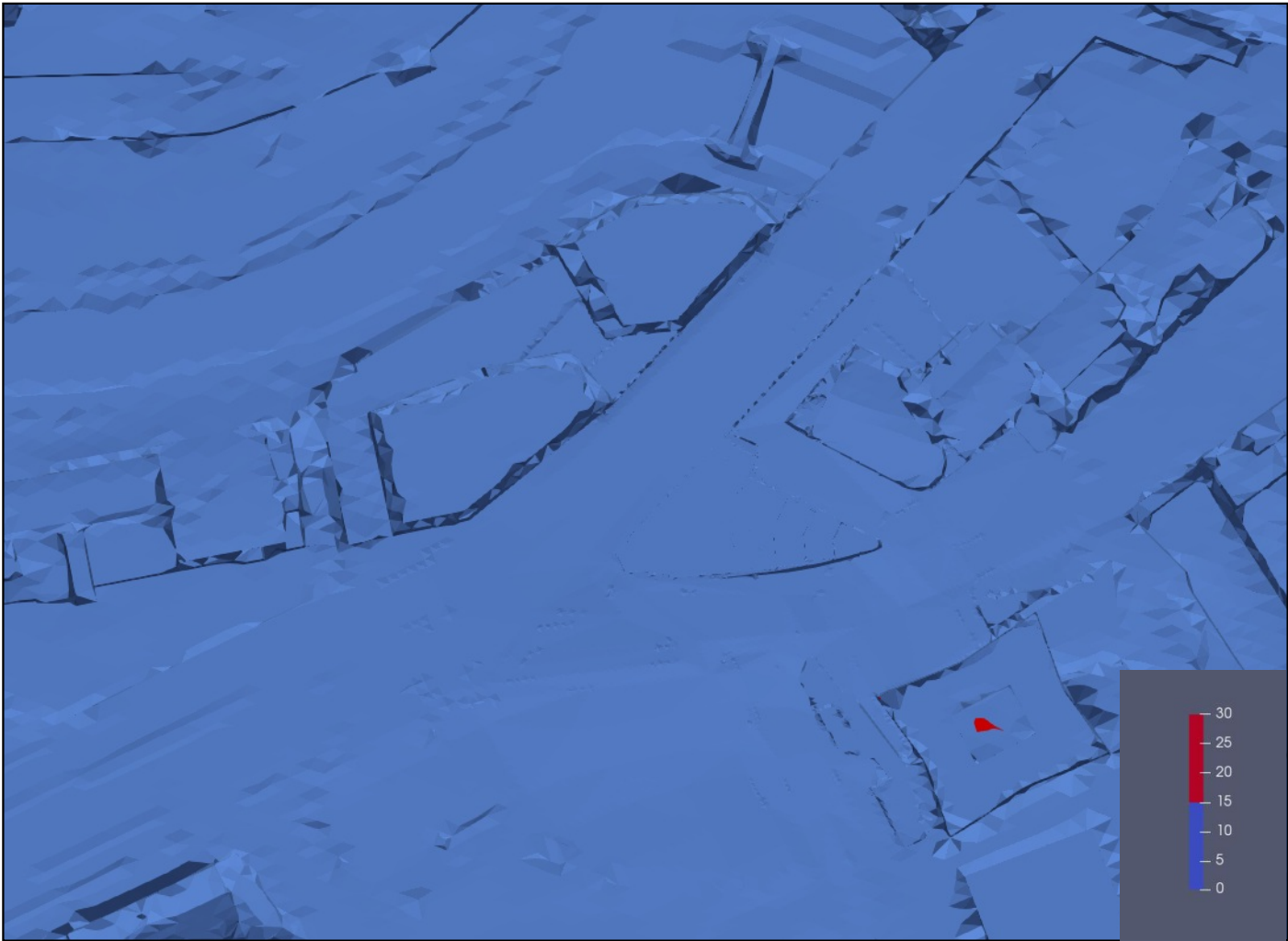
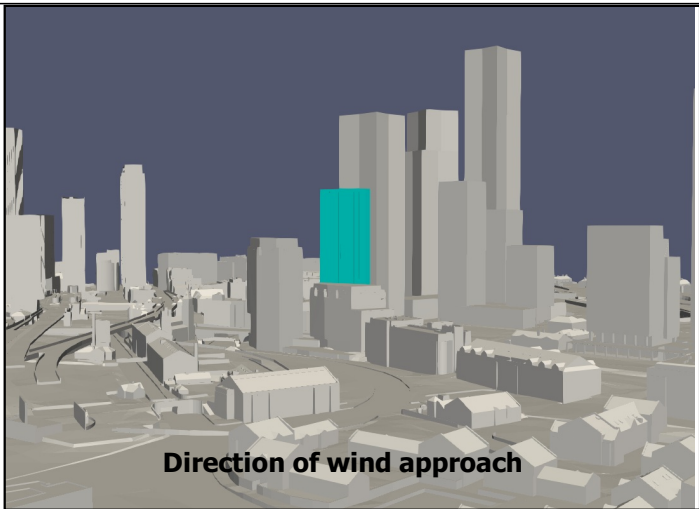
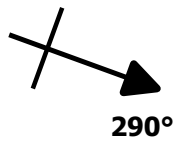
Wind Direction: 280°



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		CFD Model of Wind Flow at 280° Deansgate South Manchester	
WIND_DIR_280_GM11393			Figure 29

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 290°

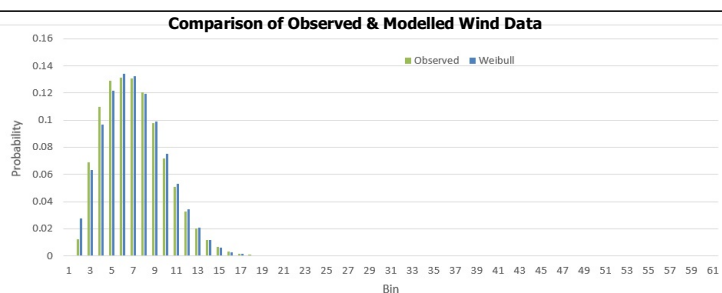
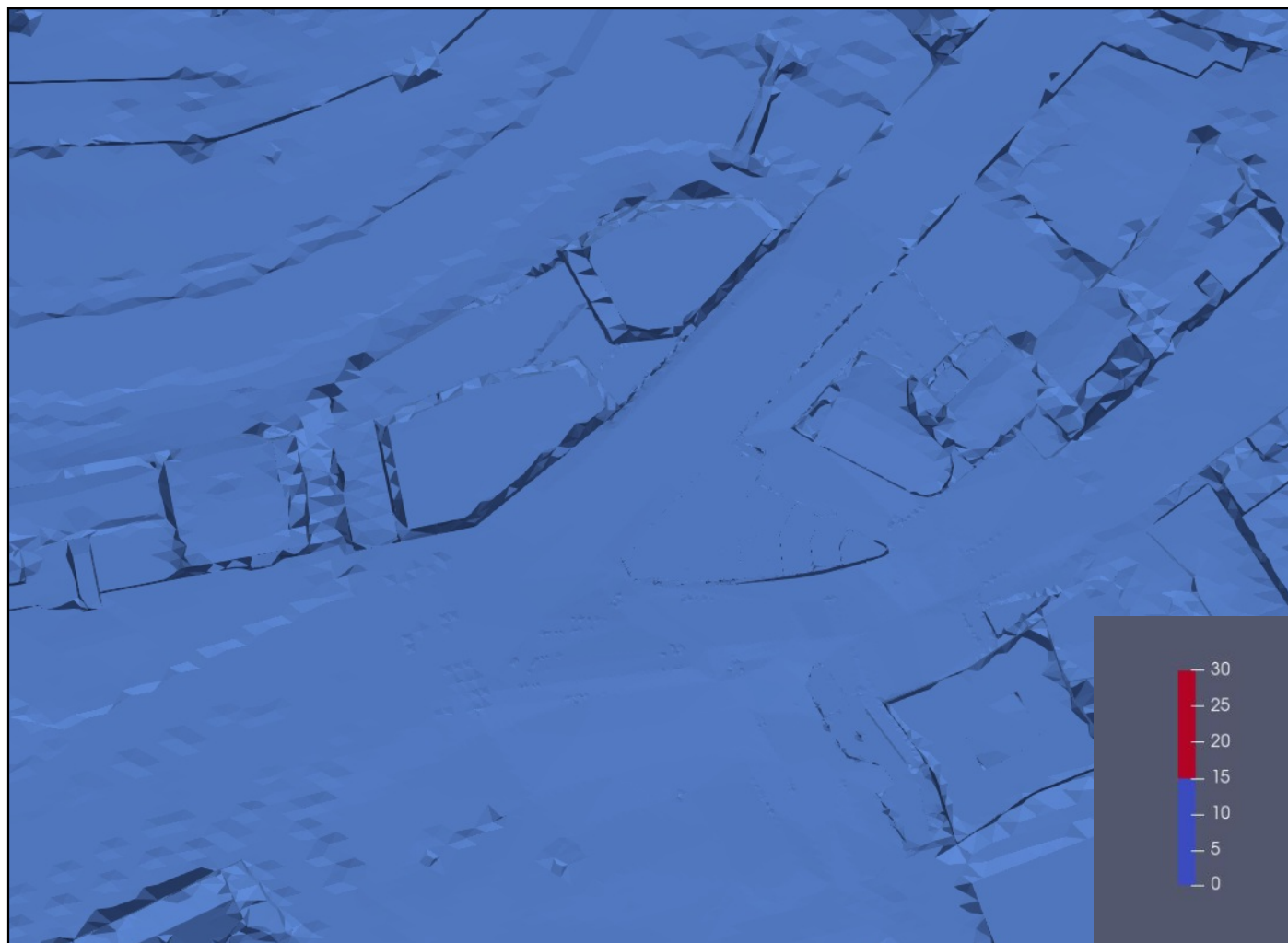
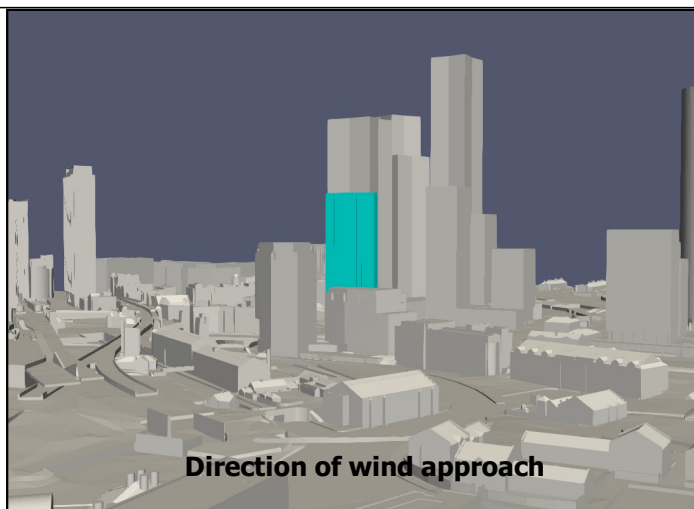
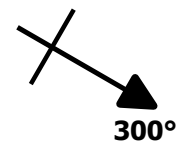


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CFD Model of Wind Flow at 290° Deansgate South Manchester	
WIND_DIR_290_GM11393	Figure 30

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 300°



Notes:

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CFD Model of Wind Flow at 300°
Deansgate South
Manchester

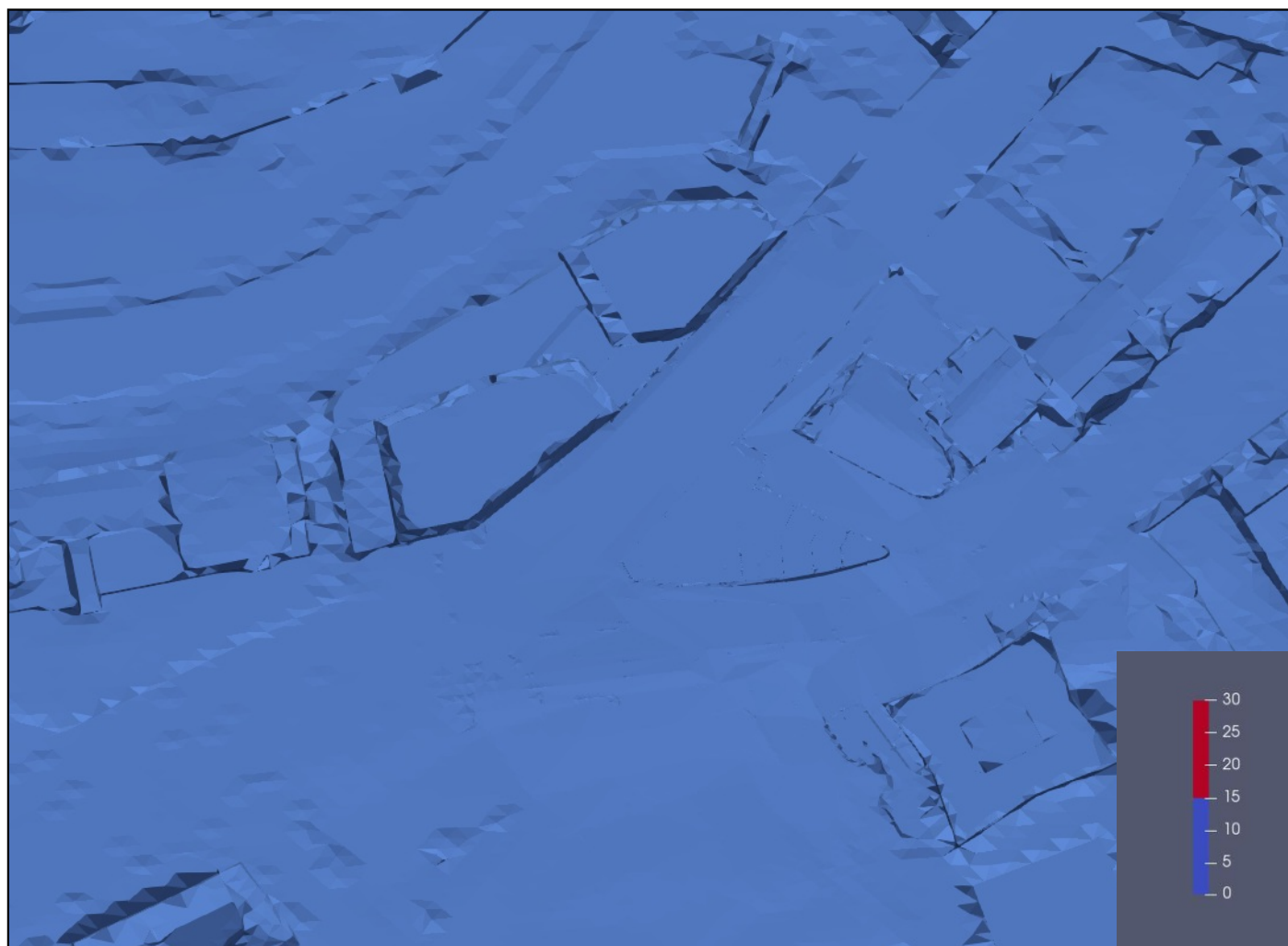
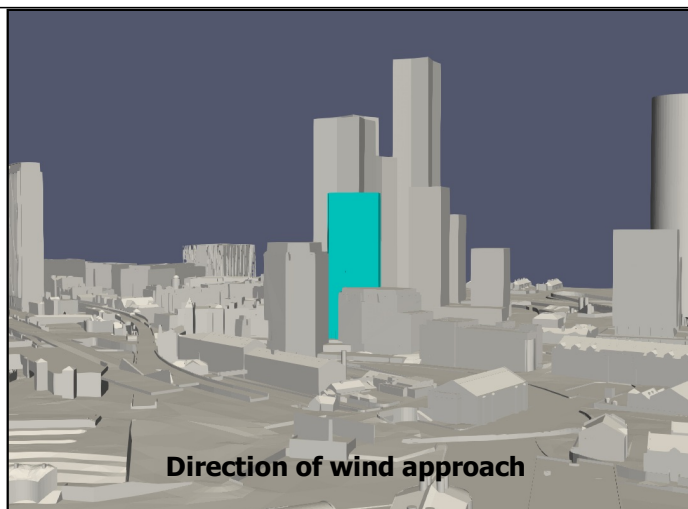
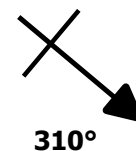
WIND_DIR_300_GM11393

Figure 31

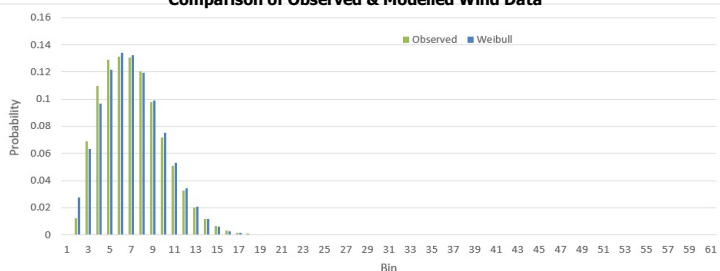
Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 310°



Comparison of Observed & Modelled Wind Data



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Drawn By: S.Livingstone Date: 11/12/2020
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CFD Model of Wind Flow at 310°
Deansgate South
Manchester

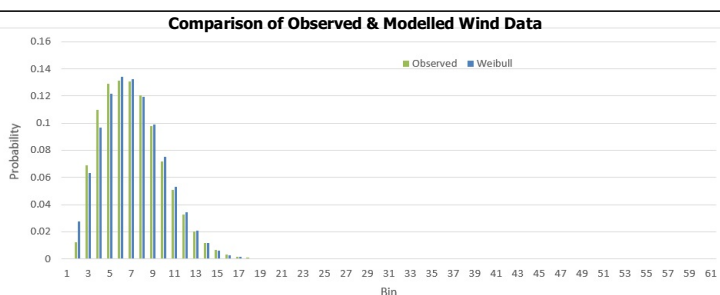
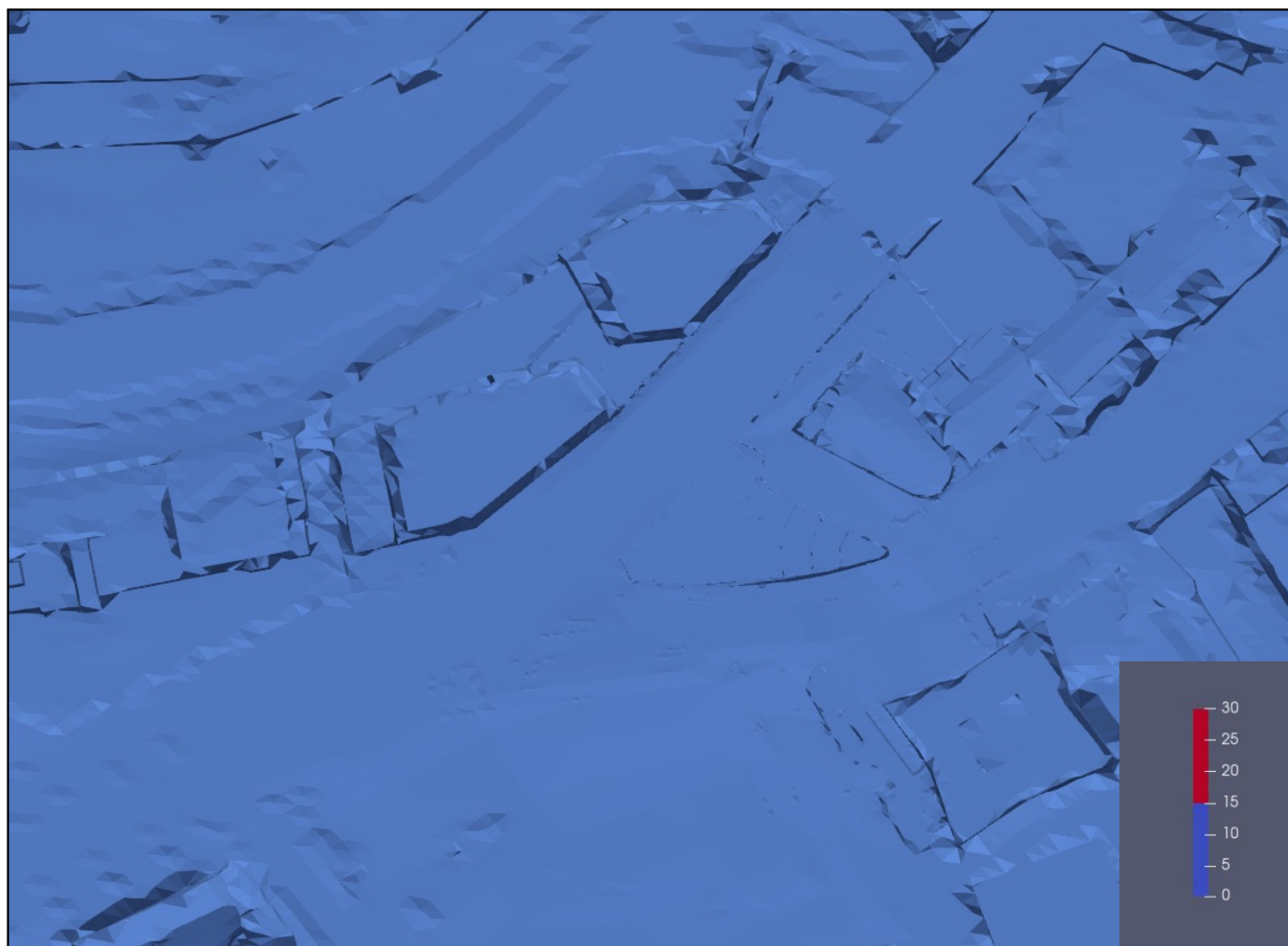
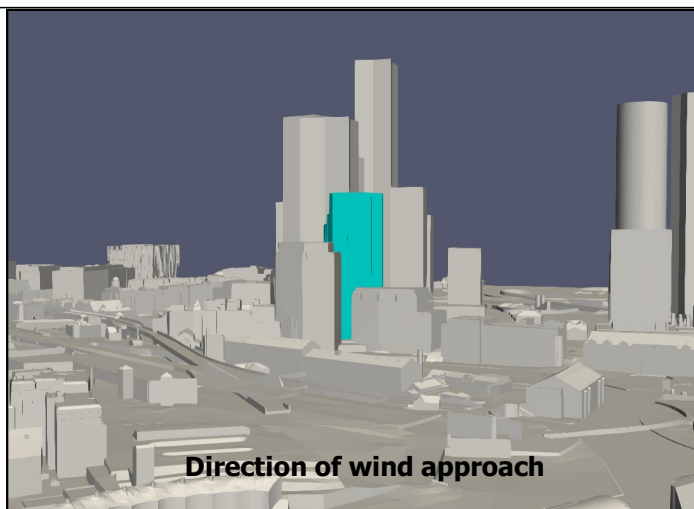
WIND_DIR_310_GM11393

Figure 32

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 320°



Notes:

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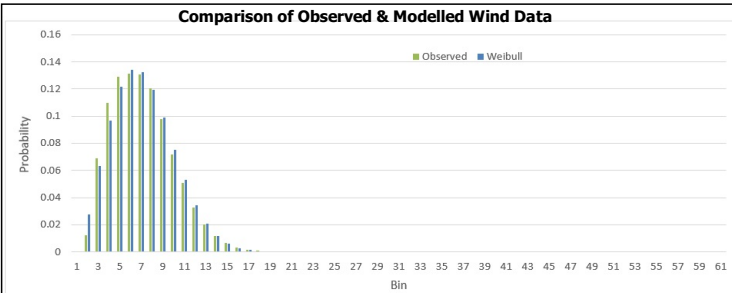
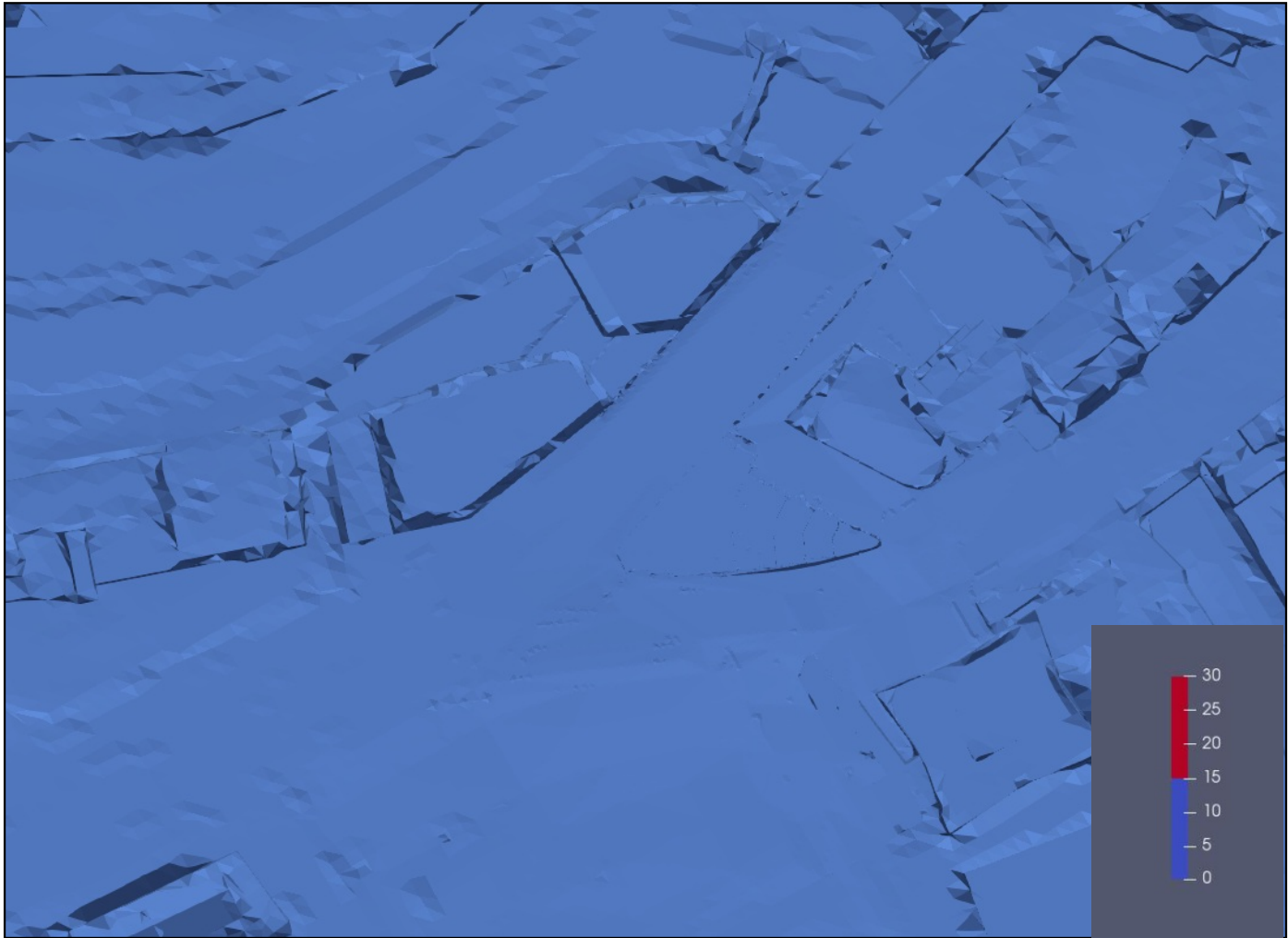
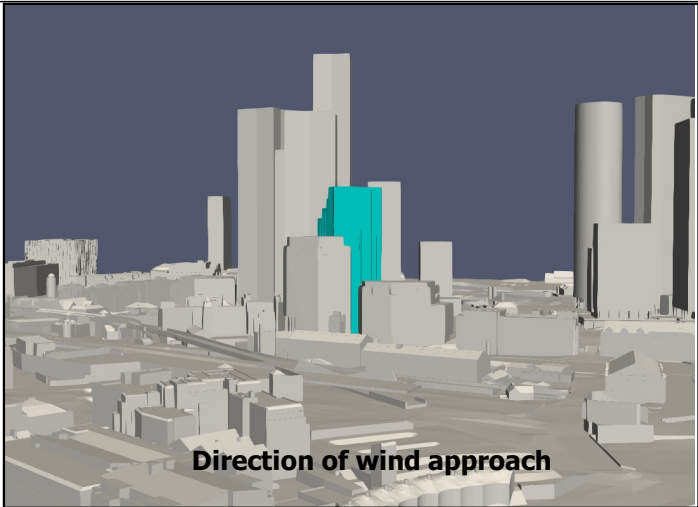
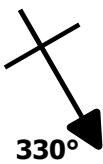
Drawn By: S.Livingstone Date: 11/12/2020
Checked By: P.Evans Date: 11/12/2020

**CFD Model of Wind Flow at 320°
Deansgate South
Manchester**

WIND_DIR_320_GM11393

Figure 33

Deansgate South, Manchester
Wind Microclimate Assessment
Wind Direction: 330°



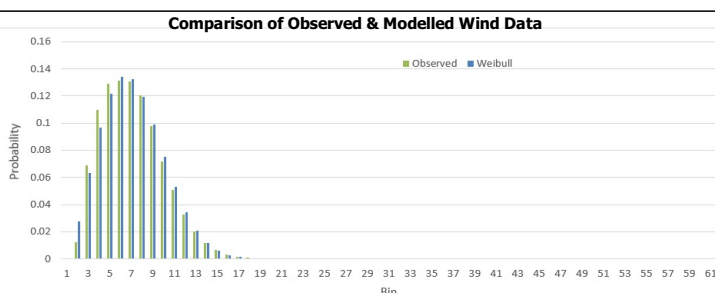
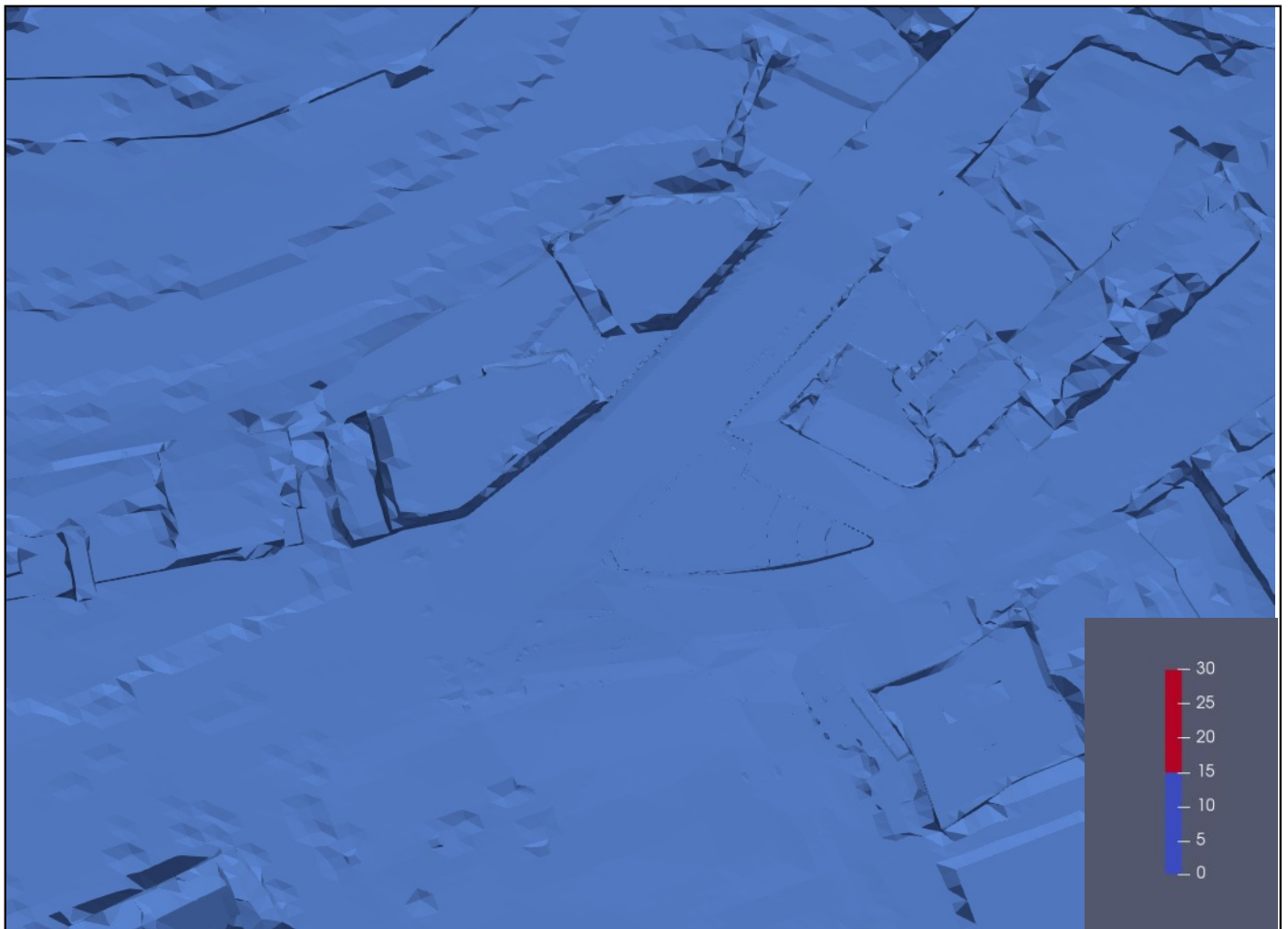
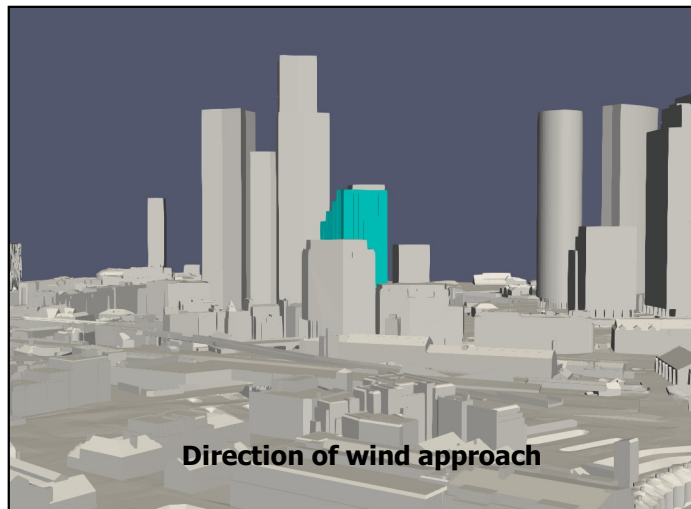
Notes:

Fusion Manchester DevCo Ltd			
Wardell Armstrong LLP Wheal Jane Earth Science Park Baldhu, Truro, Cornwall, TR3 6EH Tel: +44 (0) 1872 560738 email: info@wardell-armstrong.com web: www.wardell-armstrong.com		Drawn By: S.Livingstone	Date: 11/12/2020
		Checked By: P.Evans	Date: 11/12/2020
		CFD Model of Wind Flow at 330° Deansgate South Manchester	
WIND_DIR_330_GM11393			Figure 34

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 340°



Notes:

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Drawn By: S.Livingstone Date: 11/12/2020
Checked By: P.Evans Date: 11/12/2020

CFD Model of Wind Flow at 340°
Deansgate South
Manchester

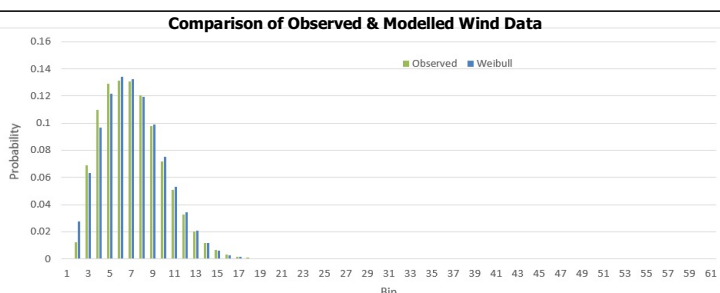
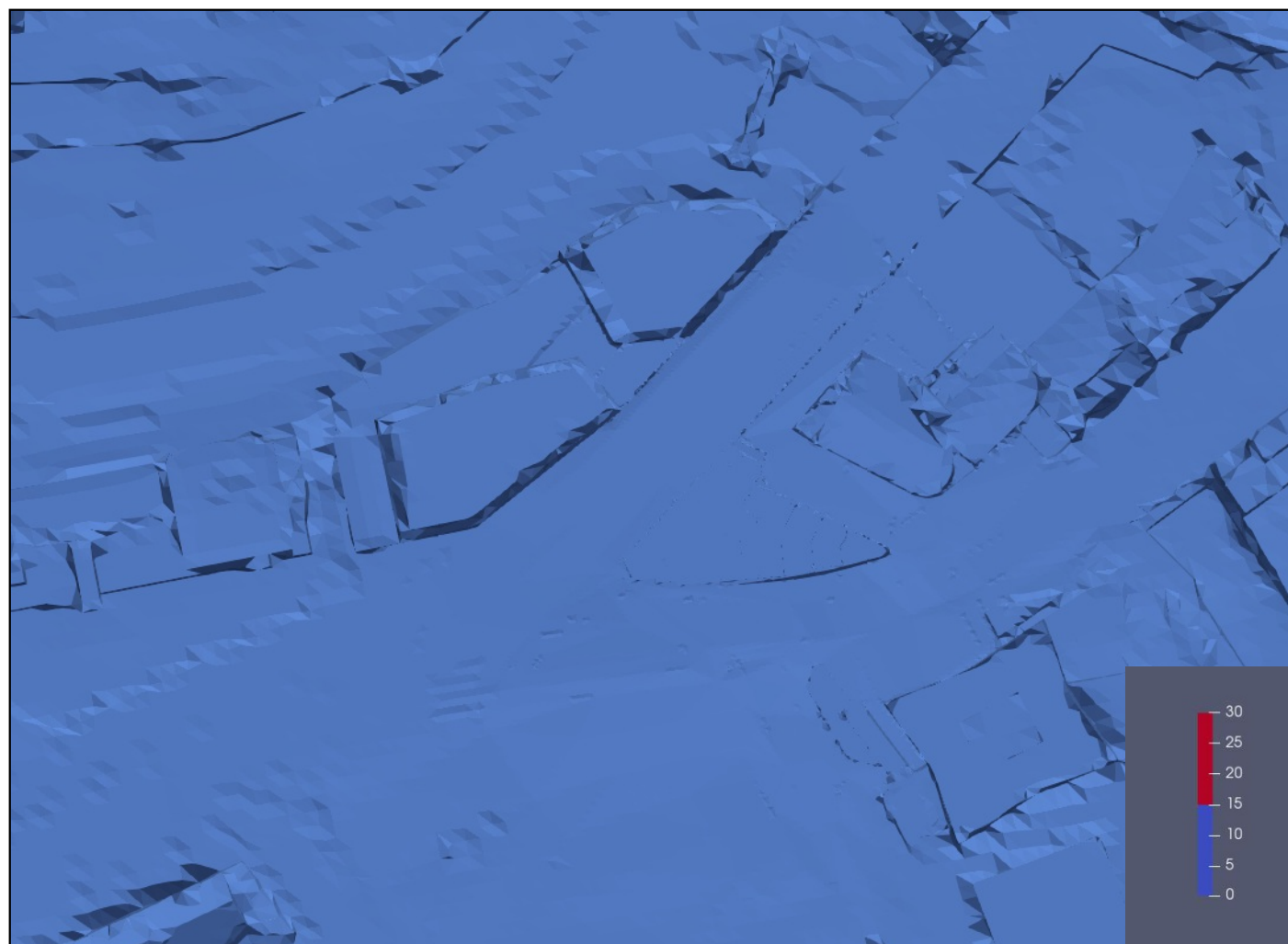
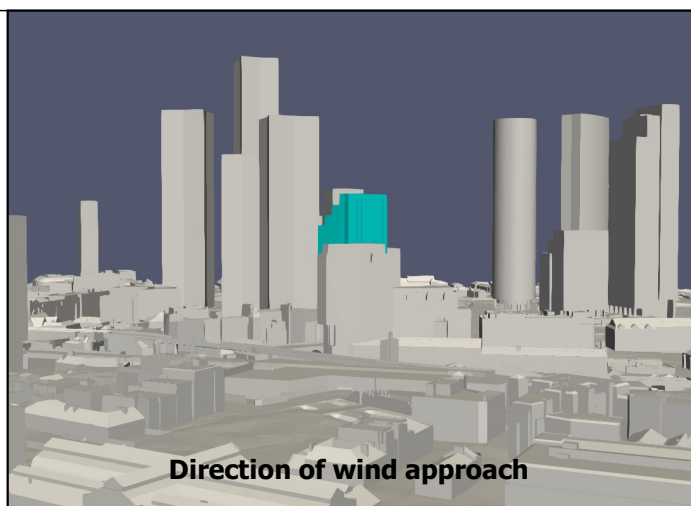
WIND_DIR_340_GM11393

Figure 35

Deansgate South, Manchester

Wind Microclimate Assessment

Wind Direction: 350°



Notes:

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Drawn By: S.Livingstone Date: 11/12/2020
Checked By: P.Evans Date: 11/12/2020

CFD Model of Wind Flow at 350°
Deansgate South
Manchester

WIND_DIR_350_GM11393

Figure 36