Plan View

186 m

0 m

320 m

FBP X

FBP Y

FBP Z

FCS X

FCS Y

FCS Z

Fire line

Road

320 m

160 m

300 m

250 m

150 m

100 m

50 m

Time averaged velocity

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| --- |
| 0.5 m grid (50s-379s) |
| 0.75 m grid (50s-320s) |
| 1 m grid (50s-550s) |

Time series velocity at 70 m height (mid-domain height)

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| --- |
| 0.5 m grid |
| 0.75 m grid |
| 1 m grid |

Anemometer velocity at 17 m height

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|  |

Average wind velocity (m/s) at anemometer (17 m height)

|  |  |  |
| --- | --- | --- |
| Grid size | Experiment | Simulation 5DTT |
| 0.5 m | 1.40.6  Occasional gusts up to 4.4 m/s  Lulls of 0.5 m/s | 1.39 |
| 0.75 m | 1.89 |
| 1 m | 1.40 |

Grid convergence is done in terms of temperature, wind velocity.

This is the device layout of capturing data.

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Wind profile (smv)

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| After 366 seconds |