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

|  |
| --- |
| 50 mm grid (50s-379s) |
| 75 mm grid (50s-320s) |
| 100 mm grid (50s-387s) |

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

|  |
| --- |
| 50 mm grid |
| 75 mm grid |
| 100 mm grid |

Anemometer velocity at 17 m height

|  |
| --- |
|  |

Average wind velocity (m/s)

|  |  |  |
| --- | --- | --- |
| Grid size | Experiment | Simulation 5DTT (45 s t0 366 s) |
| 50 mm | 1.40.6 | 1.39 |
| 75 mm | 1.89 |
| 100 mm | 1.40 |

Wind profile (smv)

|  |
| --- |
| After 366 seconds |

Single tree burning

|  |  |  |
| --- | --- | --- |
|  | Number of firebrands collected | Total mass collected (g) |
|  | 70 | 184 |
| Grid 50 mm with default drag model | 63 | 18.63 |
| Grid 50 mm with Haider drag model | 73 | 18.82 |

Firebrand number distribution

|  |
| --- |
| Default drag model |
| Haider drag model |