

Ngarkat, South Australia, fire and smoke Key Topics: • fire [2]

- modelling [3]
- propagation [4]

Fire spread prediction across fuel types [5]
This research tested two established reliable physics-based models—the Fire Dynamics Simulator and FIRESTAR3D—to simulate bushfire scenarios in three broad areas: sub-canopy wind flow, firebrand transport, and propagation of grass and forest fires. The team has made significant inroads into providing usable outputs as well as understanding various aspects of bushfire behaviour. This project was established to create a capability and capacity in Australia to conduct research and understand physical-based wildfire modelling approaches. There are several international groups developing these models, and it is imperative that Australia can interact and work alongside these researchers to translate the findings to the Australian context.

[10]

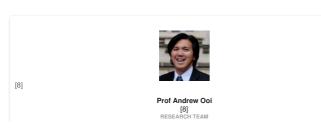
Project: detail Notabs

Research team

Research leader

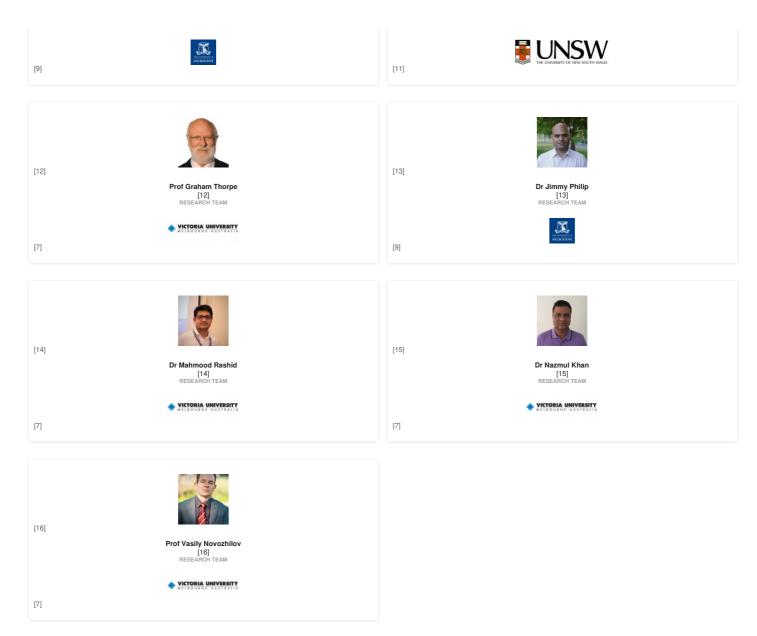


Research team

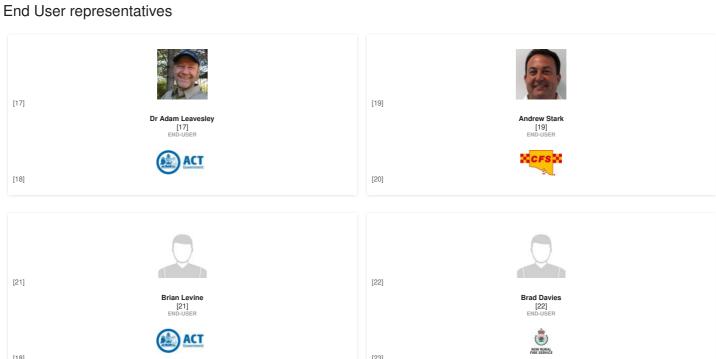




Dr Duncan Sutherland [10] RESEARCH TEAM

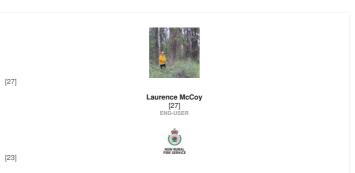


[18]



[23]









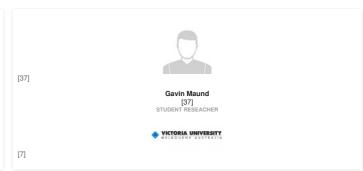






Student researchers











[9]







Description

It is crucial for emergency and disaster management organisations to predict of the rate of spread and intensity of bushfires for operational planning, community warnings and the deployment of their resources.

In this project, the research team tested two established reliable physics-based models: Fire Dynamics Simulator (FDS) and FIRESTAR3D to simulate bushfire scenarios in three broad areas:

- (1) sub-canopy wind flow,
- (2) firebrand transport, and
- (3) propagation of grass and forest fires.

The team made significant inroads into providing usable outputs as well understanding various aspects of bushfire behaviour.

This project was also established to create a capability and capacity in Australia to conduct research and understand physical-based wildfire modelling approaches. There are several international groups developing these models, and it is imperative that Australia can interact and work alongside these researchers to translate the findings to the Australian context. Overall, this project has obtained greater insight into bushfire physics and outcomes are now being utilised to parameterise various phenomena for operational models.

Read the final report here. [42]

Related News



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[44]



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[56]



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08 FEB 2017



Newsletter - Fire spread prediction FIRE, FIRE IMPACTS

[58]



Fire in France

Publications

10 DEC 2014

25 AUG 2014

Year	Туре	Citation		
2023	Journal Article	Innocent, J. [60], Sutherland, D. [10], Khan, N. [15] & Moinuddin, K. [6] Physics-based simulations of grassfire propagation on sloped terrain at field scale: flame dynamics, mode of fire propagation of the propagation of		
2023	Journal Article	Sutherland, D. [10], Rashid, M. [14], Hilton, J. [66] & Moinuddin, K. [6] Implementation of spatially-varying wind adjustment factor for wildfire simulations [67]. Environmental Modelling & Software Control of Software Control		
2023	Journal Article	Khan, N. [15], Sutherland, D. [10] & Moinuddin, K. [6] Simulated behaviour of wildland fire spreading through idealised heterogeneous fuels [72]. International Journal of Wildland Fire (2023)		
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2023	Journal Article	Innocent, J. [60], Sutherland, D. [10], Khan, N. [15] & Moinuddin, K. [6] Physics-based simulations of grassfire propagation on sloped terrain at field scale: motivations, model reliability,		
2022	Journal Article	Wickramasinghe, A. [36], Khan, N. [15] & Moinuddin, K. [6] Determining firebrand generation rate using physics-based modelling from experimental studies through inverse analysis		
2022	Journal Article	Wadhwani, R. [40], Sutherland, D. [10], Ooi, A. [94] & Moinuddin, K. [6] Firebrand transport from a novel firebrand generator: numerical simulation of laboratory experiments [95]. Internal		
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2021	Report	Khan, N. [15], Wickramasinghe, A. [36], Rashid, M. [14] & Moinuddin, K. [6] Fire spread across different fuel types: research and utilisation – final project report [42]. (Bushfire and Natural Ha		
2020	Journal Article	Accary, G. [78] et al. Physics-Based Simulations of Flow and Fire Development Downstream of a Canopy [124]. Atmosphere 11, (2020). DOI [125] Google Scholar [126] BibTeX [127] EndNote XM		
2020	Report	Moinuddin, K. [6], Khan, T. [129] & Sutherland, D. [10] Effect of relative humidity on grassfire propagation [130]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [131] BibTeX [132] Endl		
2020	Report	Wickramasinghe, A. [36], Khan, N. [15] & Moinuddin, K. [6] Physics-based simulation of firebrand and heat flux on structures in the context of AS3959 [134]. (Bushfire and Natural Hazards CRC,		
2020	Report	Rashid, M. [14], Hilton, J. [66], Khan, N. [15], Sutherland, D. [10] & Moinuddin, K. [6] A report on WRF software development (preliminary) [138]. (Bushfire & Natural Hazards CRC, 2020). Google Sci		
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2020	Report	Rashid, M. [14], Sutherland, D. [10] & Moinuddin, K. [6] Fire spread prediction across fuel types: annual report 2018-19 [146]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [147] BibT		
2020	Report	Khan, N. [15], Sutherland, D. [10] & Moinuddin, K. [6] Simulation of flows through canopies with varying atmospheric stability [150]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [15]		
2019	Conference Paper	Moinuddin, K. [6] & Sutherland, D. [10] Simulations of radiation heat flux on a structure from a fire in an idealised shrubland [154]. Bushfire and Natural Hazards CRC Research Day AFAC19 (201		
2019	Conference Paper	Parker, J. [159] & Allen, A. [160] Utilisation of fire spread simulators to assess power network fire risk [161]. AFAC19 powered by INTERSCHUTZ - Bushfire and Natural Hazards CRC Research F		
2019	Journal Article	Sutherland, D. [10], Sharples, J. J. [105] & Moinuddin, K. [6] The effect of ignition protocol on grassfire development [165]. International Journal of Wildland Fire 29, 70-80 (2019). DOI [166] Google		
2019	Journal Article	Moinuddin, K. [6] & Sutherland, D. [10] Modelling of tree fires and fires transitioning from the forest floor to the canopy with a physics-based model [170]. Mathematics and Computers in Simula		
2019	Journal Article	Khan, N. [15], Sutherland, D. [10], Wadhwani, R. [40] & Moinuddin, K. [6] Physics-Based Simulation of Heat Load on Structures for Improving Construction Standards for Bushfire Prone Areas		
2019	Report	Khan, N. [15], Sutherland, D. [10], Philip, J. [13], Ooi, A. [8] & Moinuddin, K. [6] A preliminary report on simulation of flows through canopies with varying atmospheric stability [180]. (Bushfire an		
2018	Conference Paper	George, N. [184], Philip, J. [13] & Ooi, A. [8] Direct Numerical Simulation of Confined Wall Plumes [185]. 21st Australasian Fluid Mechanics Conference (2018). at https://people.eng.unimelb.edu.au		
2018	Conference Paper	Sutherland, D. [10], Wadhwani, R. [40], Philip, J. [13], Ooi, A. [8] & Moinuddin, K. [6] Simulations of the effect of canopy density profile on sub-canopy wind speed profiles [190]. AFAC18 (Bushfire		
2018	Conference Paper	Bates, J. [194] Research proceedings from the 2018 Bushfire and Natural Hazards CRC and AFAC Conference [195]. Bushfire and Natural Hazards CRC & AFAC annual conference 2017 (Bushfire		
2018	Journal Article	Moinuddin, K. [6], Sutherland, D. [10] & Mell, W. [106] Simulation study of grass fire using a physics-based model: striving towards numerical rigour and the effect of grass height on the rate of grass height on the grass height on the grass height on the grass height of grass height on the grass height on the grass height of grass height on the grass height of grass height on the grass height of grass height of grass height on the grass height of gr		
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2017		Sutherland, D. [10], Moinuddin, K. [6] & Ooi, A. [8] Large-eddy simulation of neutral atmospheric surface layer flow over heterogeneous tree canopies [220]. AFAC17 (Bushfire and Natural Hazai		
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2017	Report	Moinuddin, K. [6] & Sutherland, D. [10] Numerical modelling of fires on forest floor and canopy fires [235]. (Bushfire and Natural Hazards CRC, 2017). Google Scholar [236] BibTeX [237] EndNote		
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2016	Report	Moinuddin, K. [6], Sutherland, D. [10] & Thorpe, G. [12] Fire spread prediction across fuel types: Annual project report 2015-2016 [248]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar		
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2015	Report	Thorpe, G. [12] Fire Spread Across Fuel Types Annual Report 2014 [260]. (2015). Google Scholar [261] BibTeX [262] EndNote XML [263]		
4)		

Presentations & Resources

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04 Dec 2014	Challenges in physics based bushfire modelling [272]	₹ 885.16 KB	[27/3] (28,5ti16 (49)erity [274], modelling [3]
22 Mar 2016	Severe and High Impact Weather - cluster overview [275]	0 bytes	[276] (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
24 Oct 2016	Fire spread across fuel types [278]	₃ 3.44 MB	[279] (A) 4d/VII[280], fuel reduction [281], modelling [3]
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31 Oct 2017	Fire spread across fuel types [293]	1.1 MB	[2944 (2]1 MG)casting [295], modelling [3]
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17 Oct 2019	Fire Spread Across Fuel Types [303]	3.21 MB	[3%) (3%) (3%) (10/B)[284], fuel reduction [281]
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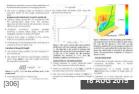
Posters



Next generation models for predicting the behaviour of bushfires: Challenges and prospects $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($

[305]

Bushfires occur on a scale that may be measured in kilometers. However, a challenge faced in developing next...

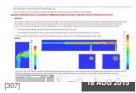


Flow Prediction Through Canopies

[306]

FIRE WEATHER [284], MODELLING [3]

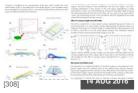
A simple model of flow through a tree canopy and comparison with large-eddy simulations.



Refinement and Validation of Firebrand Transport Sub Model for a Physics Based Bushfire Prediction Model: Design of a Firebrand Generator

[307] FIRE [2], MODELLING [3]

Firebrands are burning pieces of, for example, bark, leaf litter, and twigs. Firebrands can be transported by...



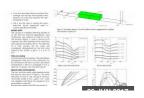
Simulations of sub-canopy winds

[308]

REMOTE FIRE SEVERITY [274], SENSING

[309]

Operational fire models rely on wind reduction factors to relate the standard meteorological measured or...



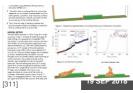


Simulated rate-of-spread of a grassfire propagating under a tree canopy

[310]

FIRE [2], MODELLING [3]

Simulations of a fire entering, propagating under and leaving a tree canopy are conducted using FDS [1], a...



Physics-based modelling of fires transitioning from the forest floor to the canopy

[311] FIRE [2], MODELLING [3]

Can a physics-based model predict a transition from a surface fire to a crown fire?

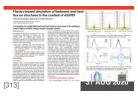


Potential of modelling firebrand load on structure in Wildland Urban Interface

[312]

FIRE DECISION MAKING [302], IMPACTS [280]

Is it feasible to model firebrand load on structure using a physics-based model in WUI?



Physics-based simulation of firebrand and heat flux on structures in the context of AS3959

[313] FIRE [2]

Key findings: Validation of firebrand model in fire dynamic simulator with tree burning experimental data...



Dynamic wind reduction factor in predicting fire rate of spread

FUEL REDUCTION [281]

Key findings: Dynamic wind reduction factors have considerable effects on forest fires where variable canopy...

Linked Projects

Effectiveness of resources to supress bushfire: aerial and ground based [315]

EMERGENCY MANAGEMENT CAPABILITY [316]

Dr Matt Plucinski CSIRO [317]



[317]

Mapping bushfire hazard and impacts

BUSHFIRE PREDICTIVE SERVICES [319]

A/Prof Marta Yebra Australian National University [320]



[320]

Fire surveillance and hazard mapping [321]

Prof Simon Jones RMIT University [322]



Through the flames - quantitative analysis of strategic and tactical wildfire suppression

Dr Greg Penney Edith Cowan University [324]

Improved predictions of severe weather to reduce community impact [325]

SEVERE AND HIGH IMPACT WEATHER [326]

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[327]

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PRESCRIBED BURNING AND CATCHMENT MANAGEMENT [329]

A/Prof Tina Bell niversity of Sydney [330]

SYDNEY

[330]

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