

## COMMISSIONED RESEARCH

- Key Topics:
- fire [1]
  - fire weather [2]


Bushfire climatology in Victoria [3]  
This project was commissioned and funded entirely by the Department of Environment, Land, Water and Planning, Victoria.

### Project: detail Notabs


### Research team

#### Research leader

[4]



**Dr Sarah Harris**  
[4]  
RESEARCH LEADER



[5]

#### End User representatives

[6]



**Andy Ackland**  
[6]  
END-USER



[7]

### Description

This project was commissioned and funded entirely by the Department of Environment, Land, Water and Planning, Victoria.

The aim of this project was to:

- explain the past bushfire weather and climate (including surface, synoptic and climate forcings) and how these may vary under climate change projections.

This was achieved through:

- summarising historic bushfire weather and bushfire events and examining the changes in frequency, distribution, seasonality and fire danger over the last 40 years;
- identifying the preceding and concurrent climate and synoptic conditions to determine how these contribute/influence fire behaviour; and
- analysing the changes in bushfire weather and events under various climate change scenarios.

### Related News



New online - November 2019  
EMERGENCY MANAGEMENT, ENGINEERING

18 NOV 2019

[8]

Publications

Year	Type	Citation
2019	Journal Article	Harris, S. [4] <a href="#">Understanding the variability of Australian fire weather between 1973 and 2017</a> [9]. <i>PLOS ONE</i> 14, (2019). DOI [10] Google Scholar [11] BibTeX [12] EndNote XML [13]

Linked Projects

Severe fire behaviour - improving planning responses  
[14]

BUSHFIRE PREDICTIVE SERVICES [15]

A/Prof Kevin Tolhurst  
University of Melbourne [16]



[16]

2009 Black Saturday and other large fire events - moisture content project  
[17]

BUSHFIRE PREDICTIVE SERVICES [15]

Prof Ross Bradstock  
University of Wollongong [18]



[18]

Analysis of RapidEye imagery to map fire severity and ground truthing  
[19]

BUSHFIRE PREDICTIVE SERVICES [15]

Dr Sarah Harris  
Country Fire Authority [5]



[5]

Smoke transportation and emissions modelling  
[20]

BUSHFIRE PREDICTIVE SERVICES [15]

Dr Martin Cope  
CSIRO [21]



[21]

Landscape moisture modelling  
[22]

BUSHFIRE PREDICTIVE SERVICES [15]



Probability of fire ignition and escalation  
[24]

BUSHFIRE PREDICTIVE SERVICES [15]



Fire transitions across urban boundaries  
[26]

BUSHFIRE PREDICTIVE SERVICES [15]



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