

Waroona fire. Photo: Neil Bennett, Bureau of Meteorology

- Key Topics:
 fire impacts [2]
- fire severity [3]
- fire weather [4]

The project aimed to improve understanding of fire and atmosphere interactions and feedback processes through running the coupled fire-atmosphere model ACCESS-Fire. ACCESS-Fire is an important research tool and has the potential to be a critical operational tool. It will assist in informing fire management decisions as increasingly hazardous scenarios are faced in a changing climate. Further deliverables from the project include the preparation of meteorological and simulation case studies of significant fire events as publications, installation and testing of the ACCESS-Fire coupled model on the National Computing Infrastructure; and preparation of training material to support operational implementation of research findings. The project has demonstrably achieved the objective of building and sharing national capability in fire research and has provided fire and meteorology expertise during high impact events in support of end-users inside their operational centres.

Project: detail Notabs

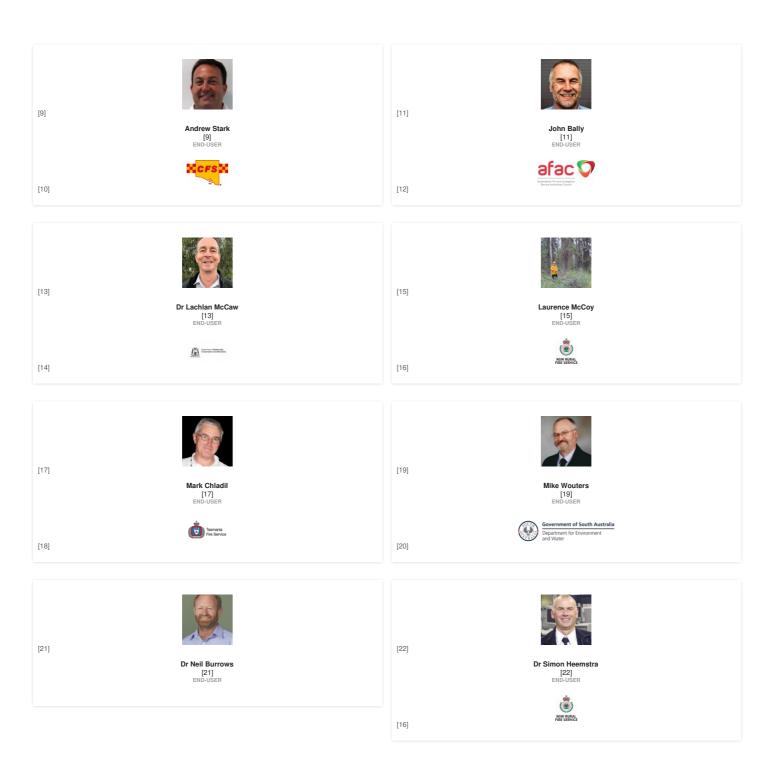
Research team

Research leader





End User representatives



Description

This project aimed to improve understanding of fire and atmosphere interactions and feedback processes through running the coupled fire-atmosphere model ACCESS-Fire.

Project deliverables include: preparation of meteorological and simulation case studies of significant fire events as publications; installation and testing of the ACCESS-Fire coupled model on the National Computing Infrastructure (NCI); and preparation of training material to support operational implementation of research findings.

The project has demonstrably achieved the objective of building and sharing national capability in fire research and has provided fire and meteorology expertise during high impact events in support of end-users inside their operational centers. That outcome is not a specific project deliverable and is to some degree intangible, so not as easily measured as outcomes such as publications. However, it successfully realises the CRC objective of building collaborations and trusted partnerships and strengthening national capability. The operational support capability is recognised and valued across fire and land management agencies and in the Bureau.

Read the final report here. [23]

Related News



Fire weather research on show to the world FIRE SEVERITY, FIRE WEATHER

[24]



New online - March 2021
EMERGENCY MANAGEMENT, MULTI-HAZARD

25 MAR 2021

22 JUN 2021



Australia Day Honours for CRC experts FIRE, FIRE IMPACTS

[26]



New online - January 2021 COMMUNICATION, EMERGENCY MANAGEMENT

28 JAN 2021

28 JAN 2021



New online - November 2020 COMMUNICATION, EMERGENCY MANAGEMENT

16 NOV 2020



Special edition Monographs share AFAC19 science

11 DEC 2019



CRC science making national impact FIRE, FIRE SEVERITY

[30]



What happens when women thrive in fire EMERGENCY MANAGEMENT, FIRE

[31]

19 NOV 2019

29 OCT 2019



Bushfire modelling boost COMMUNITIES, EMERGENCY MANAGEMENT

[32]



Queensland fire contribution awarded FIRE, FIRE IMPACTS

[33]

29 OCT 2019

20 SEP 2019



New online - August 2019
DECISION MAKING, EMERGENCY MANAGEMENT

[34]



Severe weather research has impact COINCIDENT EVENTS, FORECASTING

[35]

22 AUG 2019

09 AUG 2019



Science expertise helps Queensland EMERGENCY MANAGEMENT, FIRE

[36]



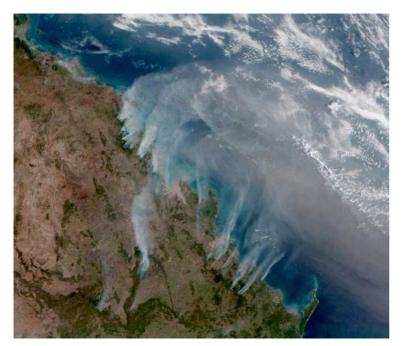
CRC research in magazine's spotlight EMERGENCY MANAGEMENT, FIRE

[37]

[38]

27 MAY 2019

27 MAY 2019



Fire science helps Queensland FIRE, FIRE IMPACTS

[39]



A decade of advancements on fire weather EMERGENCY MANAGEMENT, FIRE IMPACTS

[40]

20 FEB 2019

12 FEB 2019



Conference papers available online
EMERGENCY MANAGEMENT, MULTI-HAZARD

[41]



Science in the pub for researcher FIRE, FIRE IMPACTS

18 SEP 2018

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New online - November 2017

[43]



New online - August 2016

16 AUG 2016

17 NOV 2017



How research utilisation enhances severe fire weather forecasting FIRE SEVERITY, FIRE WEATHER

[45]



Where to Next with Fire Modelling? FIRE, FIRE WEATHER

24 APR 2015

17 AUG 2015



CRC magazine details research

[47]



Mercury rising replay available

Publications

24 APR 2015

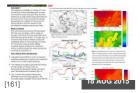
07 OCT 2014

Year	Туре	Citation		
2022	Book Chapter	Golding, B. [49] et al. Towards the "Perfect" Weather Warning: Bridging Disciplinary Gaps through Partnership and Communication 149 (Springer Nature, 2022). doi:doi.org/10.1007/978-3-030-989		
2021	Report	Peace, M. [8], Kepert, J. [6], Ye, H. [54] & Greenslade, J. [55] Coupled fire-atmosphere modelling – final project report [23]. (Bushfire and Natural Hazards CRC, 2021). Google Scholar [56] BibT		
2020	Journal Article	Peace, M. [8], Charney, J. [59] & Bally, J. [11] Lessons learned from coupled fire-atmosphere research and implications for operational fire prediction and meteorological products provide		
2020	Report	Peace, M. [8], Kepert, J. [6], Ye, H. [54] & Greenslade, J. [55] Coupled fire-atmosphere modelling: ACCESS-Fire – annual report 2019-2020 [65]. (Bushfire and Natural Hazards CRC, 2020). Google		
2019	Conference Paper	Sturgess, A. [69] & Peace, M. [8] Science in operations: QFES response to the 2018 Queensland fires [70]. Bushfire and Natural Hazards CRC Research Day AFAC19 (2019). at https://knowledge		
2019	Conference Paper	Peace, M. [8], Kepert, J. [6] & Ye, H. [54] ACCESS-Fire: coupled fire-atmosphere modelling [75]. Bushfire and Natural Hazards CRC Research Day AFAC19 (2019). at https://knowledge.aidr.org.au		
2019	Journal Article	Virgilio, G. [79] et al. Climate Change Increases the Potential for Extreme Wildfires [80]. Geophysical Research Letters 46, 8517-8526 (2019). DOI [81] Google Scholar [82] BibTeX [83] EndNote XN		
2019	Report	Peace, M. [8], Kepert, J. [6] & Ye, H. [54] Coupled fire atmosphere modelling annual report 2018-2019 [85]. (Bushfire and Natural Hazards CRC, 2019). Google Scholar [86] BibTeX [87] EndNote XM		
2018	Conference Paper	Peace, M. [8], Kepert, J. [6] & Ye, H. [54] Simulations of the waroona fire with the access-fire coupled fire atmosphere model [89]. AFAC18 (Bushfire and Natural Hazards CRC, 2018). Google Sci		
2018	Conference Paper	Bates, J. [93] Research proceedings from the 2018 Bushfire and Natural Hazards CRC and AFAC Conference [94]. Bushfire and Natural Hazards CRC & AFAC annual conference 2017 (Bushfire a		
2017	Conference Paper	Peace, M. [8] et al. Lessons learned from a multidisciplinary investigation into the Waroona fire [98]. AFAC17 (Bushfire and Natural Hazards CRC, 2017). Google Scholar [99] BibTeX [100] EndN		
2017	Journal Article	Peace, M. [8] et al. Meteorological drivers of extreme fire behaviour during the Waroona bushfire, Western Australia, January 2016 [102]. Journal of Southern Hemisphere Earth Systems Science		
2017	Report	Kepert, J. [6], Peace, M. [8] & Ye, H. [54] Coupled fire-atmosphere modelling project: annual project report 2016-17 [107]. (Bushfire and Natural Hazards CRC, 2017). Google Scholar [108] BibTeX		
2016	Report	Kepert, J. [6] & Peace, M. [8] Coupled fire-atmosphere modelling: Annual project report 2015-2016 [111]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [112] BibTeX [113] EndNote X		
2015	Presentation	Kepert, J. [6] & Peace, M. [8] Coupled Fire-Atmosphere Modelling [115]. (2015). Google Scholar [116] BibTeX [117] EndNote XML [118]		
4)		

Presentations & Resources

			KEY TOPICS
20 Oct 2014 N	Managing severe weather - progress and opportunities [121]		risk management [122], severe weather [123]
22 Oct 2014	Managing severe weather: progress and opportunities [124]		forecasting [125], risk management [122], severe weather
27 Oct 2014	The effects of fire-plume dynamics on the spread of long range spotting [126]		fire [127], modelling [128]
01 Apr 2015 F	Fire Australia Autumn 2015 [129]	₹ 8.64 MB	[13/0] (8/27/j,Mb)delling [128], severe weather [123]
02 Sep 2015 T	The Sydney 2014 Forecasting Demonstration Project A Step from Research to Operations [131]	1 .27 MB	[13/2] (mpadw12], fire weather [4], severe weather [123]
22 Mar 2016	Severe and High Impact Weather - cluster overview [133]	0 bytes	[1344 (127),es)odelling [128], scenario analysis [135]
24 Oct 2016	Coupled fire-atmosphere modelling project [136]		[13/7] (2:046rM/E[3], fire weather [4], modelling [128]
25 Oct 2016	Next generation fire modelling [138]	₫ 1.35 MB	[139] (in [35] (in [4]), fire severity [3], fire weather [4]
07 Jul 2017 E	Building bushfire predictive services capability [140]	№ 9.97 MB	[14if (927),MB) weather [4], modelling [128]
07 Jul 2017 (Coupled fire-atmosphere modelling - Dr Lachie McCaw [142]	0 bytes	[14/3] (((h)pyllets)[2], fire severity [3], fire weather [4]
31 Oct 2017	Coupled fire-atmosphere modelling project: ACCESS-Fire [144]	₹ 580.38 KB	[145] (520)38r/65)eather [4], modelling [128]
05 Dec 2017 L	essons learned from the Waroona fire: AFAC webinar [146]	0 bytes	[14i7] (127) (127) (128) weather [4], modelling [128]
14 Jun 2018 E	Extreme fire behaviour: reconstructing the Waroona fire pyrocumulonimbus and ember storms [148]	420.52 KB	[14段 (42058 代題) fire severity [3], fire weather [4]
18 Sep 2018 A	ACCESS-Fire to better understand risk [150]	₫ 1.81 MB	[15ifa (127],MB)delling [128]
23 Nov 2018 (Coupled fire-atmosphere modelling [152]	₹ 832.11 KB	[158a (832] 1 Inls Belling [128]
18 Jun 2019 N	Making better forecasts [154]	₁ 12.57 MB	[155]/(1257id49)156], modelling [128], severe weather [123]
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27 Aug 2019 A	ACCESS-Fire [159]	1 1.32 MB	[160] (12:3]2:MR)elling [128]

Posters



Meteorology of the Sampson Flat Fire in January 2015

[161]
FIRE [127], FIRE WEATHER [4]
In January 2015, the Sampson flat bushfire burnt in the Adelaide hills. it was active for 6 days, burning 12,...



Coupled fire-atmosphere modelling project: case study of the Waroona fire

REMOTE FIRE SEVERITY [3], SENSING

[163]

Coupled fire-atmosphere models show three-dimensional interactions between a fire and the surrounding...

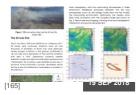


Access-fire: Australia's coupled fire-atmosphere model

[164]

FIRE IMPACTS [2], FIRE SEVERITY [3]

Some bushfires exhibit extreme behaviour that exceeds the bounds of existing predictive guides. Coupling...



Coupled fire-atmosphere simulations of the Sir Ivan Fire

[165]

FIRE IMPACTS [2], FIRE SEVERITY [3]

ACCESS-Fire couples an empirical fire spread model to the Australian numerical weather prediction model. The..



$Lessons\ learned\ from\ coupled\ fire-atmosphere\ research\ and\ implications\ for\ operational\ fire\ modelling$

[166]

[2], FIRE SEVERITY [3]

Coupled models are a class of fire prediction models that combine fire and atmospheric components. The..



ACCESS-Fire: a case study

MODELLING [128]

Key findings: Coupled modelling can provide the next level of value for fire danger forecasting, if it can be...

Linked Projects

Through the flames - quantitative analysis of strategic and tactical wildfire suppression [168]

Dr Greg Penney
Edith Cowan University [170]



[170]

Threshold conditions for extreme fire behaviour [171]

BUSHFIRE PREDICTIVE SERVICES [169]

A/Prof Trent Penman University of Melbourne [172]



[172]

Fire coalescence and mass spotfire dynamics

Prof Jason Sharples
University of New South Wales [174]



[174]

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Links
   [1] https://www.bnhcrc.com.au/files/report1png [2] https://www.bnhcrc.com.au/research/topics/fire-impacts [3] https://www.bnhcrc.com.au/research/topics/fire-weather [5]
   https://www.bnhcrc.com.au/research/coupledfire [6] https:
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