



NSW Rural Fire Service Library

New books, articles and reports in your library this month

This month's new additions to your NSW RFS Library include The Bega Valley Fires Independent Review, eBook versions of several of the library's popular titles including *Slow Catastrophes : Living with drought and Mountain ash : fire, logging and the future of Victoria's giant forests*, Damien Gildea's book on *Mountaineering in Antarctica*, articles from the latest issues of *International Journal of Wildland Fire*, *Australian Journal of Emergency Management*, and *Fire Engineering* in addition to two beautifully illustrated new books on mapping and *Shoot like a Girl*, an Air National Guard Major's challenge to eliminate the US military's Ground Combat Exclusion Policy on keeping female armed service members from officially serving in combat roles.

Contact your librarian Katie to borrow any of the books or to request articles at rfs.library@rfs.nsw.gov.au

Time Magazine, 2nd August 2018

'It's Heart-Wrenching.' Photographers Take You Behind Their Haunting Images of the California Wildfires



*Firefighters watch a back burn during the Mendocino Complex fire in Upper Lake, Calif. on July 31.
Josh Edelson—AFP/Getty Images*

This article and further photographs are available online using this [Time link](#)

FIRE INCIDENTS – AUSTRALIAN

Bega Valley Fires Independent Review – Keelty Inquiry 2018 (Report)

Office of Emergency Management, 2018

The independent review into the Bega Valley bushfires was undertaken at the request of the Minister for Police and Emergency Services, the Hon Troy Grant MP, and was formally commissioned by the NSW Office of Emergency Management. The Bega Valley fires on 18 March 2018 burnt through more than 1,250 hectares destroying 65 homes and 70 caravans or cabins. This Review has a specific focus on the adequacy of the fire services response to what is now termed 'the Bega Valley fires' and the call taking and dispatch arrangements of both FRNSW and the RFS.

To read this review online, please use this [link](#).

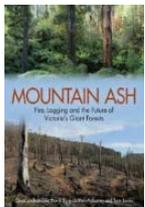
Northern Australia Seasonal Bushfire Outlook 2018

(Hazard note)

Bushfire and Natural Hazards CRC, 2018

This Outlook provides information to assist fire and land management agencies in making strategic decisions such as resource planning and prescribed fire management to reduce the negative impacts of bushfire. The bushfire outlook across northern Australia is mixed this year due to the variability in rainfall from the last wet season.

To read this Hazard note online, please use this [link](#).



[Mountain ash : fire, logging and the future of Victoria's giant forests](#) (eBook)

CSIRO, 2015

Now available in eBook format as well as hardcopy in the library. Mountain Ash draws together exciting new findings on the effects of fire and on post-fire ecological dynamics following the 2009 wildfires in the Mountain Ash forests of the Central Highlands of Victoria. The book integrates data on forests, carbon, fire dynamics and other factors, building on 6 years of high-quality, multi-faceted research coupled with 25 years of pre-fire insights.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. To borrow the hardcopy or for those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.

FIRE INCIDENTS – INTERNATIONAL

EMERGENCY MANAGEMENT



Resilient Sydney: a strategy for city resilience 2018 (Online report)

100 Resilient Cities, 2018

This strategy sets the direction the city of Sydney must take to strengthen its ability to survive, adapt and thrive in the face of increasing global uncertainty and local shocks and stresses. This strategy calls for business, government, academia, communities and individuals to lead and work as one city.

Please use the [City of Sydney link](#) to read the report online.

Can major post-event inquiries and reviews contribute to lessons management? (Journal article)

Australian Journal of Emergency Management, July 2018

Significant disaster and emergency management events are invariably followed by formal post-event inquiries and reviews. Such reviews identify lessons to improve future capacities and set the agenda for policy and management reform for emergency management organisations. However, whether there is any coherence or core lessons emerging for the Australian sector from the totality of post-event inquiries is unknown. The work reported here identifies the recommendations from these inquiries.

Please use the [AJEM link](#) to read the article online.

Evidence to support incident management team capability (Journal article)

Australian Journal of Emergency Management, July 2018

In 2015, AFAC commissioned a review of the evidence base to establish the rationale for capabilities central to effective incident management. This article outlines the evidence base and the capabilities developed through this review and contributes to the evidence base for incident management capability.

Please use the [AJEM link](#) to read the article online.

Australia facing extremely intense rain storms (News article)

Science Daily, 30 July 2018

Landmark study from the Newcastle University, UK, how heavy, short rain storms are intensifying more rapidly than would be expected with global warming. Researchers say this is likely to lead to increasing flash floods and urban flooding for Australia.

To read this article online, please use this [ScienceDaily link](#)

How the land recovers from wildfires – an expert’s view
(News article - England)

The Conversation, 4 July, 2018

The apocalyptic images of desolate, scorched landscapes following the wildfires in UK’s Greater Manchester and Lancashire are hard to reconcile with the lush, picturesque moorland scenery that had existed just days before. The author’s thoughts turn to the recovery of the affected area that now exceeds 2,000 hectares in size.

To read this news article online, please use this [link](#)

A perfect storm of factors is making wildfires bigger and more expensive to control. (News article – United States)

The Conversation, 31 July, 2018

Hopes for fewer large wildfires in 2018, after last year’s US disastrous fire season, are rapidly disappearing across the West. These active wildfire years also mean higher firefighting costs.

To read this news article online, please use this [link](#)

FIREFIGHTING

Negotiating adversity with humour: A case study of wildland firefighter women (Journal article)

By Christine Eriksen

Political Geography, 4 August 2018

This paper examines humour as an emergent theme within a long-term study of the gendered terrain of wildfire management. It analyses a set of semi-structured interviews that the study utilised to facilitate in-depth conversations with firefighter women about everyday gender relations, politics and practices within the New South Wales National Parks and Wildfire Service, Australia.

Read this article online at this [ScienceDirect link](#).



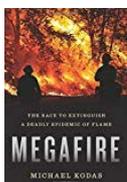
How overseas fire agencies recruit for diversity (Journal article)

Bronnie Mackintosh

Australian Journal of Emergency Management, July 2018

The number of female firefighters in the urban sector in Australia is less than five per cent, despite good efforts to broaden the catchment for recruitment. How can this be improved using best-practice recruitment?

Read this article online at this [AJEM link](#).



A high-adrenaline job: 5 questions answered about fighting wildfires (News article – United States)

The Conversation, 2 August, 2018

The cited journal article, **Detection of continental-scale intensification of hourly rainfall extremes**, is available on request from the library.

Rethinking flood risk communication (UK Journal article)
Natural Hazards, July 2018

Flooding is a serious hazard across Europe, with over 200 major floods documented in the last two decades. Over this period, flood management has evolved, with a greater responsibility now placed on at-risk communities to understand their risk and take protective action to develop flood resilience. However, research suggests that current risk communications have not resulted in the intended increase in awareness, or behavioural change.

Please use this [Springer link](#) to read the article online.



The long road: building effective diversity and inclusion in emergency management
(Online report)

Bushfire and Natural Hazards CRC, 2018

Although diversity and inclusion is not a new concept or area of practice for the Emergency Management Sector (EMS), there has been little clarity of what effective D&I practice is. EMS organisations are complex, and increasingly, dynamic social, environmental and economic factors are driving the need for transformation in the sector. Case study assessments were undertaken with three EMS organisations – Queensland Fire and Rescue, Fire and Rescue New South Wales) and South Australian State Emergency Services. Please use the [BNHCRC link](#) to read the report online.

Sending a message: How significant events have influenced the warnings landscape in Australia
(Journal article)

International Journal of Disaster Risk Reduction, September 2018

The Bureau of Meteorology has a mandate to issue warnings for weather and climate events that are likely to result in harm and loss. This service has been delivered in an end-to-end (science to service) context and warnings messages have typically been crafted to describe the current and predicted future state of the environment and recommended protective actions. However, the warnings landscape is evolving and Australian governments and emergency management agencies are adopting rapidly diversifying roles in a range of warnings processes. Read this article online at this [ScienceDirect link](#).

FEMA’s fall and redemption—applied narrative analysis
(Journal article)

An interview with photojournalist Michael Kodas, deputy director of the University of Colorado's Center for Environmental Journalism, who has worked as a wildland firefighter. Here, he describes the challenges of fighting these intense blazes.

To read this news article online, please use this [link](#)
Michael Kodas's book, [Megafire : the race to extinguish a deadly epidemic of flame](#) is available to borrow from the library.

All wildfires are not alike, but the US is fighting them that way (News article – United States)

The Conversation, 12 July, 2018

Stephen Pyne discusses how every major fire in the US rekindles another round of commentaries about "America's wildfire problem." But the fact is that our nation does not have a fire problem. It has many fire problems, and they require different strategies. Some problem fires have technical solutions, some demand cultural calls. All are political.

To read this news article online, please use this [link](#)

Eight ways fire officers must communicate (US Journal article)

Fire Engineering, August 2018

Consistent communication is the single greatest determinant of a fire officer's effectiveness. However, real communication takes time, which many fire officers find in short supply, especially as they rise through the ranks.

Please contact the library to request a copy of this article.



Hotshots : the firefighter's firefighter (US Journal article)

Fire Engineering, August 2018

During the US wildfire season, wildland firefighters often work 16-hour days protecting communities while wearing heavy, heat-resistant boots and long-sleeve, heat-resistant shirts; carrying approximately 45 pounds of gear; and working in the most extreme weather conditions. Yet wildland firefighters are rarely recognised in the same light as structural firefighters.

Please contact the library to request a copy of this article.

FIRE BEHAVIOUR

Evaluation of grass dead fuel moisture content models

(Pyropage Issue 19)

CSIRO, July 2018

Disaster Prevention and Management: An International Journal, Vol 27, no 4

The purpose of this paper is to recover the narratives constructed by the disaster management policy network in Washington, DC, about the management of Hurricanes Katrina and Sandy. Analysing these narratives provides an opportunity to understand the stories constructed about these events and consider the implications of this framing for post-event learning.

Please contact the library to request a copy of this article

NSW RFS and SES HQ Staff may use this [Emerald link](#) to access the article at work

SEARCH AND RESCUE

Books, websites and manuals on this topic are found on our library webpage [Search and Rescue Resources](#).

ECOLOGY & THE NATURAL ENVIRONMENT



[Recovering Australian threatened species : a book of hope](#) (eBook)

CSIRO, 2018

This book showcases successful conservation stories and identifies approaches and implementation methods that have been most effective. These diverse accounts – dealing with threatened plants, invertebrates, fish, reptiles, birds and mammals – show that the conservation of threatened species is achievable: that it can be done and should be done.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. For those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.

The effects of fire history on hollow-bearing tree abundance in montane and subalpine eucalypt forests in south-eastern Australia (Journal article)

Forest Ecology and Management, Vol 428, Nov 2018

Hollow-bearing trees provide critical habitat resources for forest fauna, yet there is evidence of a ubiquitous decline in the large, old trees most likely to provide this resource. Fire can influence the formation and persistence of tree hollows. In this study, we investigated the effects of stand-level fire history and individual tree attributes on tree hollow abundance.

Please contact the library to request a copy of this article.

This issue reports on an evaluation of six fuel moisture content prediction models from Australia and around the world. Model performance was compared to measurements of dead grass fuel moisture gathered from five sites in eastern Australia under dry conditions typical during summer.

To read this article online, please use this [CSIRO link](#)

HAZARD REDUCTION

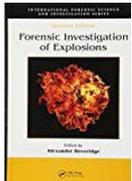


Eating Away a Threat (US Journal article)
Fire Engineering, August 2018

Mitigation of fire fuels in wildland urban interface (WUI) areas is a major effort occurring in western communities to build fire safe spaces around dwellings and outbuildings and to minimize the possibility of wildfires laddering up into crown fires. A fire department and community in Colorado, US, are using an unusual method of mitigation on the landscape infrastructure to help reduce the fuel loads, and it's something most people might not have thought of—goats.

Please contact the library to request a copy of this article.

FIRE INVESTIGATION



[Forensic investigation of explosions](#) (Book)
Alexander Beveridge, 2012

This second edition draws on the editor's 30 years of explosives casework experience, including his work on task forces set up to investigate major explosives incidents. Topics discussed include the physics and chemistry of explosives and explosions, the detection of hidden explosives, the effect of explosions on structures and persons, and the role of forensic scientists.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. For those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.

AVIATION AND DRONES

Night-time Firebombing Aircraft – Wayne Rigg (Podcast)
Emergency Management Podcast, 9 July 2018 (44 mins)

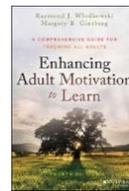
LEADERSHIP AND MANAGEMENT

Questions to Ask Potential Leaders (US Journal article)
Fire Engineering, August 2018

Over the years, we have seen any number of publications, presentations, and courses on developing leaders and discussions on selection processes such as tests, interviews, and assessment centres. Whatever the process used to develop and select leaders, there are several questions that should be included to ensure we are selecting the leaders we need.

Please contact the library to request a copy of this article.

LEARNING AND TRAINING



[Enhancing adult motivation to learn : a comprehensive guide for teaching all adults](#)
(eBook)

The fourth edition of the classic interdisciplinary reference on adult education provides adult educators with the information and strategies they need to guide non-traditional students toward positive educational outcomes. Adult students differ from traditional students in motivation, attitude, experience, making today's teaching environment a new landscape for instructors to navigate.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. For those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.

The 10 Commandments of Training Delivery (Journal article)

TD: Talent Development, August 2018

Imagine giving your first training session. You spend hours preparing and practicing the content—so much time that you considered yourself a subject matter expert. However, a few minutes into the session, you can tell that it is not going as planned. The author discusses 10 commandments of training delivery to engage and involve participants early and often in the learning process. Trainers must abide by these commandments deliberately and consistently to ensure that participants learn, retain, and apply the new skills.



In 2018, Emergency Management Victoria led an Australian trial involving the use of aircraft to suppress wildfires at night. During the trial, pilots wore night vision goggles which detect and amplify light. Regulatory approval for

aircraft use in night-time firebombing In this episode Operations Officer Wayne Rigg discusses.

Please use this [EM link](#) to listen to the Podcast.

Working with aircraft (US Journal article)

Fire Engineering, August 2018

As the US wildland fire conditions continue to increase in intensity each year throughout the West, wildland firefighters must react with improved tactics and a rapid response with both ground and air assets. Air resources are vital in the combat of rapid fire growth and the most problematic result of extreme fire behaviour—long-range spotting.

Please contact the library to request a copy of this article.

URBAN PLANNING

New model quantifies communities' vulnerability to the spread of fire (News article)

Colorado State University, Science Daily, 12 July 2018

Disaster-mitigation experts wanted to bring attention to the complexity of the so-called wildland-urban interface of fires. They've developed a model that attempts to quantify the vulnerability of a community of homes to the spread of a fire. They hope their model could add to the strategic toolbox that protects lives and livelihoods from destructive fires.

To read this article online, please use this [ScienceDaily link](#)

METEOROLOGY AND CLIMATE CHANGE



Extreme silence: How the U.S. media have failed to connect climate change to extreme heat in 2018 (Online report)

Public Citizen, 2018

This report examines media coverage of extreme heat and climate change from

January 1 to July 8, 2018, as well as in the context of the major heat event that spread over the Northern Hemisphere over a twelve-day period starting on June 27 and ending on July 8. The report considers a range of sources: the top 50 U.S. newspapers by circulation, national programming from ABC, CBS, CNN, Fox News

Please contact the library to request a copy of this article
NSW RFS staff may use this [EBSCO link](#) to access the article at work

What bias? (Journal article)

TD: Talent Development, August 2018

The article discusses effort of society to eliminate discrimination from organisation and has translated work for talent development professionals. Topics discussed include unconscious bias training (UBT) offered by technology firms Google and Microsoft to their employees, workshop with voluntary participation of Google, and views of Stacey Engle, executive vice president at leadership development training firm Fierce, on the same.

Please contact the library to request a copy of this article
NSW RFS staff may use this [EBSCO link](#) to access the article at work

MENTAL HEALTH

Farmers experiencing drought-related stress need targeted support (News article)

The Conversation, 30 July, 2018

For farmers, drought is a major source of stress. Their livelihoods and communities depend on the weather. To better support farmers and their families we need to better understand the impact of drought on them and their communities.

To read this news article online, please use this [link](#).

To read the related *Medical Journal of Australia* article, **Drought-related stress among farmers: findings from the Australian Rural Mental Health Study**, please use this [link](#).

[The Resilience Workbook : Essential Skills to Recover From Stress, Trauma, and Adversity](#) (eBook)

Glenn Schiraldi, 2017

In *The Resilience Workbook*, Glenn Schiraldi—author of *The Self-Esteem Workbook*—offers invaluable insight and

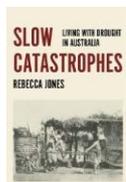
outlines essential skills to help you bounce back from setbacks and cultivate a growth mindset. Why do some people sail through life's storms, while others are knocked down? Resilience is the key.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. For those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.

Network, MSNBC, and NBC, and newspaper coverage in the 13 states in which 10 or more heat records were broken during the period.

Please use the [Citizen link](#) to read the report online.

LAND MANAGEMENT



[Slow Catastrophes : Living with Drought in Australia](#) (eBook)

Rebecca Jones, 2017

Available now as an eBook as well as hardcopy. A sensitive account of families living on the Australian land, the story of drought in this driest continent is as much about resilience, adaptation, strength of community, ingenious planning for, and creative responses to, persistent absences of rainfall. The histories of eight farming families, stretching from the 1870s to the 1950s, are related, with a focus on private lives.

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SMOKE MANAGEMENT

Comparing the height and area of wild and prescribed fire particle plumes in south-east Australia using weather radar (Journal article)

International Journal of Wildland Fire, 13 July 2018

Smoke pollution from landscape fires is a major health issue. Prescribed burning aims to reduce the area and impact of wildfire, but itself produces smoke pollution. This raises the question as to whether the smoke production and transport from prescribed fires is substantially different compared to wildfires. We examined the maximum height, width and areal footprint of large-particle plumes from 97 wild and 126 prescribed fires in south-eastern Australia using the existing network of weather radars.

Please contact the library to request a copy of the article.

Tweets prove to be reliable indicator of air quality conditions during wildfires (News article)

USDA Forest Service - Northern Research Station
Science Daily, 26 July 2018

Whether it is caused by wildfire or prescribed fire, smoke can have serious health ramifications. Scientists evaluated

HEALTH AND SAFETY

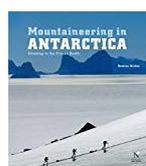
Examining dispatching practices for Interagency Hotshot Crews to reduce seasonal travel distance and manage fatigue (Journal article)

International Journal of Wildland Fire, 23 July 2018

US Interagency Hotshot Crews (IHC) travel substantial distances in the United States to respond to wildland fires, exposing the crewmembers to hazards from travel and fatigue. This research used historical IHC assignments to examine how dispatching policies might affect travel distances. The results indicate that the dispatching of IHCs could be achieved with less seasonal travel while mitigating for accumulated fatigue.

Please contact the library to request a copy of the article.

GENERAL



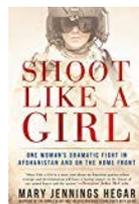
[Mountaineering in Antarctica : climbing in the frozen south](#) (Book)

Damien Gildea, 2010

This beautiful book is a tribute to the mountains themselves and to the experiences of those who have travelled among them their triumphs, travails, and tragedies. A compilation of not only spectacular photos but also comprehensive text of the climbing history and expeditions by the author, Damien Gildea, a recognised expert and Antarctic explorer on the territory.

Listen to the [recent ABC Hobart interview](#), *Mountaineering legend Gildea the right person for a book on Antarctica, with Damien Gildea.*

Please contact the library to borrow this book.



[Shoot like a girl : one woman's dramatic fight in Afghanistan and on the home front](#) (Book)

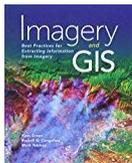
Mary Hegar, 2018

On June 29, 2009, Air National Guard Major Mary Jennings "MJ" Hegar was shot down while on a Medevac mission on her third tour in Afghanistan. But it was on American soil that Hegar would embark on her greatest challenge -- to eliminate the US military's Ground Combat Exclusion Policy, which kept female armed service members from officially serving in combat roles despite their long-standing record of doing so with honour.

Please contact the library to borrow this book.

39,000 tweets originating in California during the state's 2015 wildfire season to learn whether what people tweet can be used to predict air quality in areas affected by fire. To read this article online, please use this [ScienceDaily link](#) The cited conference proceedings paper, **Using social media to predict air pollution during California wildfires**, may be found online [here](#).

MAPPING AND GIS

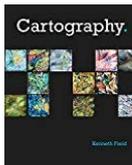


[Imagery and GIS : best practices for extracting information from imagery](#) (Book)

Kass Green, 2017

This book demonstrates how imagery can be integrated successfully into GIS maps and analysis. In this essential reference, discover how imagery brings value to GIS and how GIS can be used to derive value from imagery.

Please contact the library to borrow this book.

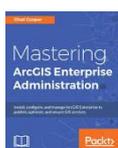


[Cartography : a compendium of design thinking for mapmakers](#) (Book)

Kenneth Field, 2018

A lavishly illustrated reference guide, this book provides sound, visually compelling information that translates into practical and useful tools for modern mapmaking. At the intersection of science and art, this book serves as a guidepost for designing an accurate and effective map.

Please contact the library to borrow this book.



[Mastering ArcGIS Enterprise administration](#) (Book)

Chad Cooper, 2018

This title is now available from the library as a hardcopy as well as an eBook. The book is geared toward senior GIS analysts, GIS managers, GIS administrators, DBAs, GIS architects, and GIS engineers that need to install, configure, and administer ArcGIS Enterprise 10.5.1.

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[Survival techniques : making fires, finding water, building shelters, hunting, navigation, natural disasters, first aid](#) (Book)

Alexander Sitwell, 2011 (reprinted 2017)

This British publication takes you through all the things you need to know about surviving disasters and staying alive in the wild, such as where to find water in the desert; how to build shelters from locally available materials that will keep out the wind and rain but will also be ventilated; what plants are safe to eat and what are deadly poisonous; and what animals will pose a threat in survival situations.



[The Rise of Science : From Prehistory to the Far Future](#) (eBook)

Peter Shaver, 2018

How did science rise up to so dramatically change our world, and where will it take us in the future? This book gives a unique and broad overview. A brief history reveals the major phases and turning points in the rise of science from the earliest civilizations to the present: How was science 'discovered'? Why did it disappear a few times? When did it become 'modern'? A critical assessment examines how science actually 'happens' This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. For those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.



The latest issue of **Popular Science** (Fall 2018) is now available online.

All NSW RFS members have access to a small selection of magazines online including Good Health, Men's Journal, PCWorld and Australian Geographic. You can view the magazines through your Internet browser, or you can use the Flipster app to download and read digital magazines offline. [Contact the library](#) for access to the eMagazines.

Borrowing books

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[Contact NSW RFS Library](#) for further assistance.

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