



New books, articles and reports in your library this month

New Resources this month include articles, reports and books on health and wildfire smoke, media coverage of "compounded crises" relating to extreme weather disaster, the Drone Efficacy Study, evaluation of firefighter leadership trainings, Jade Hameister's book who as a teenager became the youngest person in history to complete the Polar Hat Trick, wildland firefighter and photojournalist Stuart Palley's beautiful book documenting California's raging wildfires, the updated and revised version of Bushfires & Bushtucker, and new editions to our Women and Success collection including Clementine Ford's new book Boys will be Boys.

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



Mental Health Month

Mental Health Month is celebrated each year in the month of October in NSW. This awareness month encourages people to think about their mental health and wellbeing, regardless of whether they may have a lived experience of mental illness or not. More information on the WayAhead website [here](#)

The library holds a collection of books that focus on mental health which everyone is so welcome to borrow. A list of titles is available here [Mental Health and You](#)

FIRE INCIDENTS – AUSTRALIAN

Smoke aerosols dispersion and transport from the 2013 New South Wales (Australia) bushfires (*Journal article*)
Environmental Monitoring and Assessment, July 2018

This paper studies the application of environmental monitoring and modelling to understand the environment effects of a major bushfire period in the state of New South Wales (NSW), Australia, in 2013. The bushfires have caused high pollution episodes at many sites in the greater Sydney metropolitan areas. The potential long-range transport of aerosols produced by bushfires to other region and states has been seen by regulators as a major concern.

Please contact the library to request a copy of this article

FIRE INCIDENTS – INTERNATIONAL

EMERGENCY MANAGEMENT



Monograph: Diversity in disaster
Australian Institute For Disaster Resilience (AIDR), 2018

This publication is a compilation of short research communications and research documentation with a focus on the theme of 'diversity in disaster'. It reflects the depth and breadth of the sectors represented at the inaugural Australian Diversity in Disaster Conference, held in Melbourne in April 2018. Topics highlighted include women, men, people of diverse gender and sexual identities, Aboriginal groups, culturally and linguistically diverse groups, faith-based groups, people with disability, young people, the elderly, the homeless, migrant and refugees, and rural communities.

Use this [AIDR link](#) to read the news article online.



fire

The latest issue of **Fire** (September 2018) is now available online including articles on recognising women leaders in fire science, the

effect of wind on fire spread rate, correlation of Tasmanian fires and ambulance dispatches, and the influence of roads on fire ignition.

The full version of the issue is available online [here](#) or please contact the library if you would like to be added to the email alert for the next issue.



US Brush, grass and forest fires report

NPFA Report, September 2018

This analysis examines the circumstances, casual patterns of brush, grass and forest fires reported to local US fire departments. Regional differences are also noted. A brief summary of statistics from the National Interagency Fire Center is also included.

Use this [NPFA link](#) to read the report online.



Terra Flamma : wildfires at night (Book)

Stuart Palley, 2018

From the towering pines of Shasta Trinity National Forest, to the chaparral scrub of San Diego's Mexican border, to Yosemite and the Western Sierras, trained wildland firefighter and photojournalist Stuart Palley documents California's raging wildfires and the forces behind them during the state's worst fire season in modern history. The dramatic images, a half-decade in the making, capture the simultaneous beauty and destruction that wildfires.

Please contact the library to borrow this book.

Annual report Forest fires in Europe, Middle East and North Africa 2017 (Online report)

European Commission Joint Research Centre, 2018

This report presents the dramatic effects of wildfires in the year 2017. Despite the efforts by national and regional wildfire administrations and the support of the European Commission to prevent and fight wildfires in the European Union (EU), in 2017 wildfires burnt over 1.2 million ha of natural lands in the EU and killed 127 people among fire fighters and civilians. Over 25% of the total burnt area was in the Natura2000 network, destroying much of the efforts of the EU countries in preserving key biodiversity and natural habitats for future generations. The European Forest Fire Information System estimated losses of around 10 billion euros caused by these fires.

Use this [JRC link](#) to read the report online.

Rescue responses during a full moon and Friday 13th (Journal article)

International Journal of Emergency Services, October 2018

It is a well held belief that the full moon period and the date Friday 13th has an impact on the number of emergency call outs for emergency services. The purpose of this paper is to critically explore that belief. It also examines the versatility and richness of response records, and demonstrates the effectiveness of combining data sets.

Please contact the library to request a copy of this article NSW RFS Staff and SES HQ Staff may use this [Emerald link](#) to access the article at work

Survival identification syndrome and traumatic bonding (News article)

Crisis Response News, 24 September 2018

Forty five years after the hostage taking that gave birth to the concept of Stockholm syndrome, Lina Kolesnikova says that emergency services workers need to be aware of the paradoxical phenomena whereby abused people develop emotional dependency on their abuser.

The news article is available online [here](#).

Fanning the Blame: Media Accountability, Climate and Crisis on the Australian "Fire Continent" (Journal article)

Environmental Communication. 2018, Vol. 12 Issue 7

This paper raises questions of media coverage of "compounded crises" related to extreme weather disaster, in the context of urgent calls to address the implications of a changing climate. Through media analysis, it examines the ways debate over bushfire protection policy was framed and made culturally meaningful, thereby politically consequential, in the wake of the worst bushfires in modern Australian history, Black Saturday (2009).

Please contact the library to request a copy of this article

Emergency volunteering 2030: a sector-wide, management perspective (Conference Paper)

AFAC18 (Bushfire and Natural Hazards CRC, 2018)

What is emergency volunteering going to look like in 2030? How (and by whom) is it going to be organised? How can the emergency management sector best enable the value of this volunteering for communities - before, during and after emergencies? Researchers at RMIT University are seeking answers to these questions in a three-year project for the Bushfire and Natural Hazards CRC.

Use this [BNHCRC link](#) to read the paper online.

FIREFIGHTING

Leaching and bioavailability of selected perfluoroalkyl acids (PFAAs) from soil contaminated by firefighting activities (*Journal article*)

Science of the Total Environment, July 2018

Historical usage of aqueous film-forming foam (AFFF) at firefighting training grounds (FTGs) is a potential source of perfluoroalkyl acids (PFAAs) to the surrounding environment. In this study the leaching of PFAAs from field contaminated soil and their uptake into biota was investigated. Soil was sampled from FTGs at two airports and the total as well as the leachable concentration of 12 PFAAs was determined.

Please contact the library to request a copy of this article

FIRE MANAGEMENT

Indigenous fire practice protecting the Gibson Desert's biodiversity (*News article*)

Science News, University of Queensland, 10 Oct 2018

Traditional indigenous burning practices are protecting plant biodiversity in Australia's Gibson Desert, according to new research. The study analysed how environments dominated by flammable spinifex grasses and fire-sensitive desert myrtle shrubs reacted to wildfires, and to the low-intensity burning practices of the Pintupi people.

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

*The cited journal article, **Evidence that shrublands and hummock grasslands are fire-mediated alternative stable states in the Australian Gibson Desert**, is available on request from the library.*

Fire weather prediction improving (*News article*)

Science News, USDA Forest Service, 12 Sept 2018

Scientists have created a new fire-weather prediction tool that works with the same weather models that are used every day in fire weather forecasts, and thus can be applied anywhere in the world, regardless of fuel conditions or topography.

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

*The cited journal article, **The Hot-Dry-Windy Index: A New Fire Weather Index**, is available at this [link](#).*

Improvements to wind field generation in physics-based models to reduce spin-up time and to account for terrain, heated earth surface (*Online report*)

New flood model takes rapid, regional approach (*Hazard Note*)

BNHCRC, Hazard Note 52, October 2018

A rapid assessment of flood risk has been long needed in regional NSW, and Hazard Note 52 details a LiDAR-based flood model that has been developed to better understand how flooding evolves during a storm. Its application will help overcome a national void in vital information about flood risk, and help NSW SES prevent, plan and respond to the time-varying exposure of flooding over large areas.

Use this [BNHCRC link](#) to read the Hazard Note online.

Real people, real stories- if it's flooded forget it

(Conference Paper)

AFAC18 (Bushfire and Natural Hazards CRC, 2018)

Between 2000 and 2015, 178 people died from floods in Australia. Despite the strong messaging from emergency services, people continue to drive or walk through floodwater, putting their lives at risk. In response, the NSW State Emergency Service has developed a range of video stories depicting people's decision making processes and experiences entering floodwater and activated them as part of a comprehensive social media campaign - thereby incorporating a modern day approach to engage with the community about the dangers of entering floodwater.

Use this [BNHCRC link](#) to read the paper online.

Why are Indonesian tsunamis so deadly? (*Newspaper article*)

The Conversation, 3rd October 2018

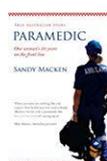
More than 1,200 people have died in the aftermath of an earthquake and subsequent tsunami in Indonesia. Anja Scheffers explains how plate tectonics, the shape of the Indonesian coastline and an overtaxed warning system make coastal communities fatally vulnerable.

Use this [The Conversation link](#) to read the news article online.

Paramedic : one woman's 20 years of the front line (*Book*)

Sally Mackan, 2018

We expect our ambos to be superhuman, remaining calm, controlling their emotions and thinking and acting clearly, however, the emotional depth of these stories will reveal a whole other side. Sandy's unique perspective as paramedic with the NSW Ambulance Service will open your mind, awaken your heart and shine a light in some very dark places.



BNHCRC, October 2018

Wind is one of the most important environmental variables that affects the wildland fire spread and intensity. Previously, fire analysts and managers have relied on local measurements and site-specific forecasts to determine winds influencing a fire. However, advances in computer hardware increased the availability of electronic topographical data, and advances in numerical methods for computing winds have led to the development of new tools capable of simulating wind flow.

Use this [BNHCRC link](#) to read the report online.

Big Burn (Magazine article)

Science News. Oct 2018, Vol. 194 No 8

The article provides information on wild fire models developed by scientists to better understand how fires create their own weather systems that spread flames. It looks at how satellite data is incorporated into the models such as the Coupled Atmosphere-Wildland Fire Environment (CAWFE) created by Janice Coen and colleagues at the National Center for Atmospheric Research.

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

HAZARD REDUCTION

A comparison of fuel hazard in recently burned and long-unburned forests and woodlands (Journal article)

International Journal of Wildland Fire, Vol 27 no 9, 2018

Fuel hazard is often assumed to increase with fuel age, or the time-since-fire. However, studies on fuel hazard in long-unburned forests are scarce. We measured overall fuel hazard in Eucalyptus forests and woodlands in south-eastern Australia at 81 sites where time-since-fire spans 0.5 years to at least 96 years. Overall fuel hazard was higher in forests and woodlands burned 6–12 years previously than those unburned for at least 96 years.

Please contact the library to request a copy of this article

COMMUNITY RESILIENCE

My grab bag is two suitcases: An autoethnographical view of a super-plus size self evacuation from Hurricane Irma (Online article)

Australian Institute For Disaster Resilience (AIDR), 2018

Please contact the library to borrow this book.

SEARCH AND RESCUE



Drones Help Search And Rescue Teams Find Victims Faster, New Study Shows

(Online article)

Crisis Response News, 20 September 2018

Search and rescue teams found simulated victims faster when they used drones for help, according to a new study that concludes drones offer enormous potential to help search and rescue (SAR) efforts, and rescue squads need to develop new standards, tactics and protocols to take full advantage of drones' aerial perspective.

The news article is available online [here](#).

These key findings were part of **the Drone Efficacy Study**, a report issued by DJI, the European Emergency Number Association (EENA) and Black Channel.

The study was released at EENA's Drones & Public Safety Summit in Brussels

The study is available for download at [this link](#).

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

LEARNING AND DEVELOPMENT

Evaluation of firefighter leadership trainings (Journal article)

International Journal of Emergency Services, Sept 2018

Leadership positions in fire departments require a wide range of skills to handle challenging operating conditions safely. Before they take on these high responsibility jobs, prospective commanding officers are provided with special training. The quality of these trainings is not only important for future subordinates, who depend on their leaders in high risk situations, but it is also particularly important to the public. The purpose of this paper is to develop a validated instrument assessing the quality of leadership trainings in firefighter education.

Please contact the library to request a copy of this article

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

LEADERSHIP AND MANAGEMENT

The capacities and vulnerabilities of people with extreme obesity have yet to be explored in disaster risk reduction literature. Whilst people have been impacted in disasters in relation to their size, shape and weight, the literature is 'conspicuously invisible' on this topic and where guidance exists, people's own accounts are missing. Through autoethnography, the authors relate what was entailed in self evacuation for a super-plus size person in advance of Hurricane Irma in September 2017. The article identifies and discusses issues that impact on the ability of people with extreme obesity to prepare and respond in disasters. Use this [UNISDR link](#) to read the news article online.

Why This Town Is Rebuilding One Year After a Destructive Wildfire—Knowing Another Fire Will Likely Come. (News article)

Time, 8 October 2018

For those choosing to rebuild in the US town Coffey Park, the looming threat of another fire isn't enough for them to move away. "I can't imagine being someplace else," says Woods, the resident who began the weekly Wednesday wine nights. Some residents have lived there for decades; others have deep family ties in Northern California. Use this [Time link](#) to read the news article online.

SMOKE MANAGEMENT

US wildfire smoke deaths could double by 2100 (News article)

Science News, American Geophysical Union, 10 Sept 2018

A new study simulating the effects of wildfire smoke on human health finds continued increases in wildfire activity in the continental United States due to climate change could worsen air quality over the coming decades.

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

The cited journal article, **Future Fire Impacts on Smoke Concentrations, Visibility, and Health in the Contiguous United States**, is available on request from the library.

The health impacts and economic value of wildland fire episodes in the U.S (Journal article)

Science of The Total Environment, 2018

Wildland fires degrade air quality and adversely affect human health. A growing body of epidemiology literature reports increased rates of emergency departments, hospital admissions and premature deaths from wildfire smoke exposure. Our research aimed to characterize excess mortality and morbidity events, and the economic value of these impacts, from wildland fire smoke exposure



[My polar dream](#) (Book)

Jade Hameister, 2018

This is the story of an adventurer who never gave up - who set herself incredible challenges beyond her years and experience. An adventurer who endured extremes of cold and blizzards; treacherous terrain where one wrong step could be fatal; struggled through ice rubble and emotional lows to achieve an extraordinary goal. Along the way, she made a sandwich for online trolls, inspired young people, and made international headlines. At sixteen, Jade Hameister became the youngest person in history to complete the Polar Hat Trick.

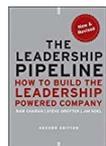
Please contact the library to borrow this book.

Everyone's business: Fourth national survey on sexual harassment in Australian workplaces (Online report)

Australian Human Rights Commission, September 2018

In 2018, the Australian Human Rights Commission conducted a national survey to investigate the prevalence, nature and reporting of sexual harassment in Australian workplaces and the community more broadly. The report confirms that sexual harassment is widespread and pervasive. An extraordinary number, one in three people, have experienced sexual harassment at work in the last five years. In the vast majority of cases, it is perpetrated by a man and in many cases; it is ongoing over an extended period.

Use this [Humans Rights link](#) to read the report online.



[The leadership pipeline : how to build the leadership powered company](#) (Book)

Ram Charan, 2011

The leadership pipeline -- the internal strategy to grow leaders -- in many companies is dry or non-existent. Drawing on their experiences at many Fortune 500 companies, the authors show how organisations can develop leadership at every level by identifying future leaders, assessing their corporate confidence, planning their development, and measuring their results.

Please contact the library to borrow this book.



Creating order from disorder through command (Podcast 32 minutes)

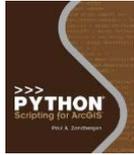
Emergency Management Podcast, 30 Sept 2018

Ken Brown (AFSM) is currently the Acting Deputy Chief Officer and Acting Executive Director Operational Preparedness with the Metropolitan Fire & Emergency

in the U.S. over a multi-year period; to date no other burden assessment has done this.

Please contact the library to request a copy of this article

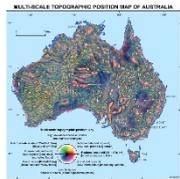
MAPPING AND GIS



[Python scripting for ArcGIS](#) (eBook)

Paul A. Zandbergen, 2013

Python Scripting for ArcGIS is a guide to help experienced users of ArcGIS for Desktop get started with Python scripting. This book teaches how to write Python code that works with spatial data to automate geoprocessing tasks in ArcGIS. Readers can thus learn the skill set needed to create custom tools. *This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home, please [contact the library](#) for a password-embedded link. A hardcopy edition is also available for loan.*



New satellite data peels Australia's landscape bare (News article)

Geoscience Australia news, 15 October 2018

Geoscience Australia has stripped Australia's landscape bare through the first continent-scale, cloud-free spatial views of Australia's soil and rock cover.

Use this [link](#) to read the article online.

METEOROLOGY



The good, the bad and the ugly: limiting temperature rise to 1.5°C (Online report)

Climate Council of Australia, October 2018

This report provides a brief summary of the main findings of the special report, Global Warming of 1.5°C, its implications, and how Australia is tracking when it comes to tackling climate change.

Use this [APO link](#) to read the report online.

NATURAL ENVIRONMENT

[Bushfires and Bushtucker : Aboriginal Plant Use in Central Australia](#) (Book)

Peter Latz, 2018

Services Board (MFB) located in Victoria, Australia. His Command and Control experience is extensive and he is well known for creating mentoring opportunities for his personnel.

Listen to the podcast at this [link](#).



[Evolving Digital Leadership : How to Be a Digital Leader in Tomorrow's Disruptive World](#) (Book)

James Brett, 2018

The world is being transformed by Digital. The pace of change is constantly accelerating and volatility and complexity are the new norms. Digital leaders are at the forefront of these waves of change, creating new markets and transforming traditional ones. This book is for leaders who come from a technical background or are leading technical teams/organisations and want to be a part of building tomorrow's digital world. *Please contact the library to borrow this book.*

WOMEN AND SUCCESS

Books on this topic are found in our library's [Women and Success online bibliography](#).



[Women kind : unlocking the power of women supporting women](#) (Book)

Dr Kirstin Ferguson and Catherine Fox, 2018

In this book, Ferguson joins Walkley award-winning journalist and leading commentator on women in the workplace Catherine Fox to examine how women's shared clout is transforming communities, workplaces and leadership; show that every woman is a role model; and challenge the idea that women regularly turn on each other for scarce seats at the top table.

Please contact the library to borrow this book.

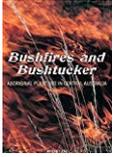


[Boys will be boys](#) (Book)

Clementine Ford, 2018

Our world conditions boys into entitlement, privilege and power at the expense not just of girls' humanity but also of their own. Ford demolishes the age-old assumption that superiority and aggression are natural realms for boys, and demonstrates how toxic masculinity creates a disturbingly limited and potentially dangerous idea of what it is to be a man.

Please contact the library to borrow this book.



An updated and revised version of *Bushfires & Bushstucker*, this book explains how the land's first inhabitants have not been passive figures in the landscape but have actively worked and changed their environment, often by means of

fire. Their management of the country has allowed them to survive and prosper, to live through the worst droughts and reap the benefits of good times. This is the most comprehensive survey ever published of desert plants and plant use.

Please contact the library to borrow this book.

Benchmarks and predictors of coarse woody debris in native forests of eastern Australia (*Journal article*)

Austral Ecology, September 2018

Fallen coarse woody debris (CWD) is critical to forest biodiversity and function. Authors, including one of our own RFS members – Ross Peacock, assess benchmark levels of CWD in unharvested native forests and those harvested for timber, across a range of forests in north-east New South Wales, Australia

Please contact the library to request a copy of this article

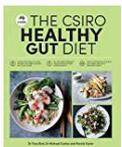
HEALTH AND SAFETY

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

International Journal of Wildland Fire, Vol 27 no 9, 2018

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 this article



[The CSIRO healthy gut diet](#) (*Book*)

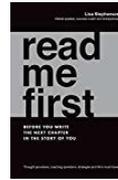
Dr Tony Bird, 2018

Written by a team of experienced CSIRO researchers, including nutritional scientists and dietitians, many of whom are

internationally recognised authorities in nutrition and gut health, this book contains simple, practical advice and a wide range of tasty, easy-to-make recipes designed to benefit the gut and overall health.

Please contact the library to borrow this book.

MENTAL HEALTH



[Read me first](#) (*Book*)

Lisa Stephenson, 2018

'Life is awesome, then it's hard, then it's awesome again,' says Lisa, a life coach. 'When you get to a difficult stage - in your personal or professional life - then this book is essential

reading before you set out to write the next chapter in the story of YOU.' Read Me First will challenge your thinking then provide a structured way to reflect and take action.

Please contact the library to borrow this book.

The role of psychological screening for emergency service responders (*Journal article*)

International Journal of Emergency Services, October 2018

The purpose of this paper is to examine the role that psychological screening and surveillance can take in improving the delivery of psychological support to emergency service responders (ESRs) at a time of increasing demands and complexity.

Please contact the library to request a copy of this article

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

Life after bushfire: Post-traumatic stress, coping, post-traumatic growth (*Journal article*)

Australasian Journal of Paramedicine, Aug 2018 Vol 15(3)

Research suggests that posttraumatic stress symptoms are common after the experience of bushfire. However, the ways in which individuals cope with, positively grow from, and find benefit in the adverse circumstances of bushfire in Australia, has not been adequately explored. The main objective of this study was to assess the relationships between posttraumatic stress, coping strategies, and posttraumatic growth in a sample of Australian community members affected by a bushfire event.

Please contact the library to request a copy of this article

GENERAL



[The dogs that made Australia](#) (*Book*)

Guy Hull, 2018

The Dogs That Made Australia is a vivid and meticulously researched history of Australia told from the perspectives of the dingo and the dogs

that were imported and developed here, as well as the humans who loved, feared and worked them.

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