



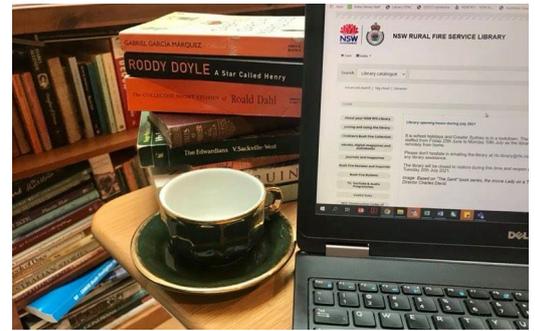
NSW Rural Fire Service Library

New books, articles and reports in your library this month

As many of you know, Greater Sydney is in a lockdown. Your library will not be staffed from Friday 25th June to Monday 19th July as I am working remotely from home.

The library will be closed to visitors during this time and reopen (hopefully) on Tuesday 20th July 2021. There will also be a small delay in posting out books directly to your work or home addresses, but they will be sent as soon as I return to the library.

Please don't hesitate in emailing the library at rfs.library@rfs.nsw.gov.au for any assistance from your library.



FIRE INCIDENTS – AUSTRALIAN



Australian Seasonal Bushfire Outlook: June – August 2021 (Hazard Note) BNHCRC, May 2021

Produced quarterly to be used by fire authorities to make strategic decisions for year-round fire management, this outlook notes that winter will be wetter than average in most areas. However, winter coincides with the dry season in northern Australia, which marks the start of the bushfire season.

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



Lessons from Black Summer: how people experienced the 2019/20 NSW fire season (Hazard Note) BNHCRC, May 2021

The research investigated how people across NSW were affected by the bushfires and what actions they took. Themes covered in this research include risk communication, preparedness and how this changed due to the length of the fire season, and the experiences of tourists and visitors, especially during the Christmas and New Year period.

Use this [BNHCRC link](#) to read Hazard Note 95 online.



K'gari (Fraser Island) Bushfire Review (Report)

Office of the Inspector-General Emergency Management (Qld), May 2021

The review focused on preparedness and response to the K'gari bushfire event. Bushfire hazard mitigation activities are

EMERGENCY MANAGEMENT



[Managing the human dimension of disaster : caring for the bereaved, survivors and first responders \(Book\)](#)

By Kjell Brataas, 2021

Noted experts recount stories and share their knowledge of how they assisted victims following tragedies such as the

Manchester Arena bombing, the 2004 Indian Ocean tsunami, terror attacks, several aircraft disasters and school shootings, the 9/11 attacks and the COVID-19 pandemic. The book focuses on those affected by a disaster, including the bereaved, survivors and first responders.

Please contact the library to request a loan of this book



Resilience: preparing for and recovering from crisis and disaster (Webcast : 1 hr 10min) Royal United Service Institute of New South Wales, April 2021

United Service, Vol 72, June 2021

Shane Fitzsimmons AFSM Head of Resilience NSW speaks to the Royal United Services Institute of New South Wales on resilience, discussing preparing and recovering from crisis and disaster.

Use this [RUSI YouTube link](#) to watch online.

Use this [link](#) to read the related paper from United Service journal online.

LEADERSHIP AND MANAGEMENT

considered in scope for the review, given the significant impact these activities have on preparedness. IGEM was asked to consider the environmental and cultural aspects of the World Heritage listed site, which is an extremely unique island.

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

New research finds native forest logging did not worsen the Black Summer bushfires (News article)

The Conversation, 11 May 2021

During the fire crisis and in the months afterwards, some scientists suggested logging profoundly affected the fires' severity and frequency. Research by David Bowman and colleagues, published in Nature Ecology and Evolution today, shows logging had little if any effect on the Black Summer bushfires.

Read the article online using [The Conversation link](#).

Please contact the library to request a copy of the research article "The severity and extent of the Australia 2019–20 Eucalyptus forest fires are not the legacy of forest management"



How good is your company at change? (Magazine article)

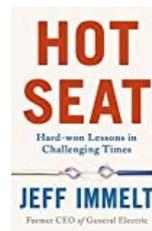
Harvard Business Review, July/Aug 2021

As they deal with a business landscape that is evolving constantly, rapidly, and unpredictably, executives all over the world are full of questions about change: How much? How fast? How sustainable? And sometimes just How? They can't hope to answer those questions unless they understand their companies' capacity for change—but they've lacked good tools for measuring that.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

Interested in receiving an email alert for the latest issue of the **Harvard Business Review**.

Contact the library to be added to the new issue email alert for the HBR



Hot seat : hard-won lessons in challenging times (Book)

Jeff Immelt, 2021

A memoir of successful leadership in times of crisis: the former CEO of General Electric shares the hard-won lessons he learned from his experience leading GE immediately after 9/11, through the economic devastation of the 2008-09 financial crisis, and into an increasingly globalised world. Hot Seat is an urgently needed, and unusually raw, source of authoritative guidance for decisive leadership in uncertain times.

Please contact the library to request a loan of this book

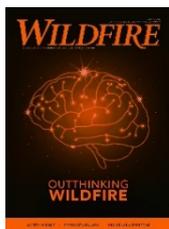


Fire Australia – Issue 2, 2021 is online

This magazine, co-published by BNHCRC, AFAC and FPA includes news and feature articles on fire protection, natural hazard research and the fire and emergency service sector.

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

FIRE INCIDENTS – INTERNATIONAL



Wildfire Magazine – April-June 2021 issue is online.

Articles include improving outcomes, a researcher's perspective on large-response, indigenous expertise in Northern Australia and putting people first.

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



Fireline (Podcast)

A six-part series from Montana Public Radio, Fireline attempts to reconcile two views of wildfire: a catastrophe that

amplifies climate anxiety, and a "part of the natural world, like the view from a mountaintop". Justin Angle, a marketing professor at the University of Montana and the host and creator of the podcast Fireline explores how Westerners might live alongside fire in our inevitably entangled future.

Listen to this podcast online using this [link](#).

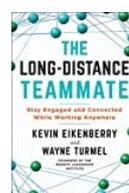


Trust and Leadership : the Australian Army approach to mission command (Book)

Edited by Russell W. Glenn, 2020

The global military conflicts of the 21st century revealed a need for new styles of command. This book depicts mission command's use in the Australian Army.

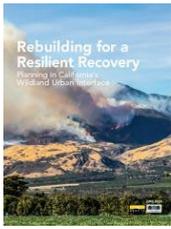
Written by serving and retired military officers, this essay collection reveals how Australian mission command was applied during ten global conflicts during the last century. Please contact the library to request a loan of this book



The long-distance teammate : stay engaged and connected while working anywhere (Book)

By Kevin Eikenberry and Wayne Turmel, 2021

What does it mean to "go to work" when you're not actually leaving the house? This is the ultimate guide for remote workers who want to stay engaged as team members, maintain robust work relationships, and keep an eye on their long-term career goals.



Rebuilding for a Resilient Recovery: Planning in California's Wildland Urban Interface (Report)

UC Berkeley Center for Community Innovation, June 2021

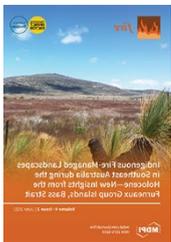
The researchers studied three communities recently affected by fires—Tubbs Fire, 2017, Thomas Fire, 2017 and Camp Fire, 2018—and found that state and local land use policies, coupled with the state's housing shortage, are ratcheting up the economic and human cost of wildfire by incentivising rebuilding in the high risk WUI, instead of redirecting development away from fire-prone areas. Use this [link](#) to read the report online.



Rebuilding Paradise (DVD)

On the morning of 8 November 2018, a devastating firestorm engulfed the city of Paradise, California. Rebuilding Paradise, from Academy Award-winning director Ron Howard is a moving story of resilience in the face of tragedy, as a community ravaged by disaster comes together to recover what was lost and begin the important task of rebuilding.

Please contact the library to request a loan of this DVD



Fire Journal – June 2021 issue is out and available online. Read a selection of articles on the science, policy, and technology of vegetation fires and how they interact with communities and the environment right across the globe.

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

Rangeland Fire Protection Associations as disaster response organisations (Journal article)

Disasters, June 2020

Rangeland Fire Protection Associations (RFPAs) are US volunteer-based groups of trained private landowners who are authorised to respond to events in partnership with governmental agencies. This study analysed the functioning and structure of RFPAs in Idaho and Oregon in the western United States to characterise this under-researched model of disaster response.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

Spatial and temporal pattern of wildfires in California from 2000 to 2019 (Journal article)

Nature – Scientific Reports, April 2021

In this study, the authors investigated the temporal distributions of past wildfires in California divided by size and causes and analysed the changes observed in the past two decades against the last century. Over the past two

Please contact the library to request a loan of this book



Distanced revolution: employee experiences of working from home during the pandemic (UK Report)

Demos, June 2021

This report from the UK Workshift Commission seeks to better understand employees' experiences of working from home during the pandemic – the benefits, challenges and future opportunities.

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



Change : how to make big things happen (Book)

By Damon Centola.

This is a book about how change happens - how ideas spread successfully, and why sometimes they fail. It is full of great case studies such as: Why Twitter took off, how Lord Kitchener recruited 2 million volunteers for the British Army at the start of the 1st World War and how and why huge social movements like the Arab Spring and Black Lives Matter took off when they did.

Please contact the library to request a loan of this book

TRAINING AND PROFESSIONAL DEVELOPMENT



Unleashing the Power of Learner Agency (eBook)

Stewart Hase & Lisa Marie Blaschke, 2021

This book is about self-determined learning. Authors from thirteen different countries describe their experiences of using the approach in a variety of contexts such as art, school education, higher education, digital learning, work, green education, personal learning, online learning, elementary learning, and research education.

Use this [EdTech Books link](#) to read the eBook online.

MENTAL HEALTH & INCIDENT STRESS



How to promote and protect the mental health of young emergency service volunteers (Hazard Note 98)

BNHCRC, June 2021

New research, led by Dr Amanda Taylor at the University of Adelaide, has tackled mental health outcomes in young volunteers. The team has created new resources, including a Care4Guide for young people, which provides a practical starting point for

decades, the frequency of small human-caused wildfires has increased most rapidly, and the wildfire season has lengthened and the peak months have been advanced from August to July.

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



NFPA Journal – Summer 2021 issue is out and available online. Read a selection of articles on notable changes to new editions of US NFPA codes and standards, resources aimed at stemming the surge in massive, costly construction fires plus conversations with experts about community risk reduction and reopening buildings after the COVID-19 pandemic.

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



The Grenfell Tower Inquiry Podcast (Podcast)

Last month it was four years since the Grenfell Tower disaster in London which killed 72

people. Every week the Grenfell Tower Inquiry sits, BBC host and producer Kate Lambly analyses and explains the evidence heard.

Use this [BBC link](#) to listen to the podcast online.

CULTURAL BURNING



Co-producing a fire and seasons calendar to support renewed Indigenous cultural fire management (Journal article)

Austral Ecology, Online 19 April 2021

The renewal of Indigenous cultural fire management in southeast Australia provided

an opportunity to explore whether the co-production of a fire and seasons calendar, using Western and Indigenous knowledge, can support cultural fire management.

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

The **Winba = Fire, the Banbai Fire and Seasons Calendar**, which is used by the Banbai rangers to guide cultural burning, share cross-cultural knowledge and increase awareness of Indigenous cultural fire management is located on this [BOM link](#).

Cultural burning and public sector practice in the Australian Capital Territory (Journal article)

Australian Geographer, Volume 52, May 2021

In this paper, two co-authors share their experiences helping create a cultural burning program as Aboriginal people but not as Traditional Custodians. We document the steps taken to build support, create opportunities and engage Ngunnawal and Ngambri Traditional Custodians, and identify early positive results and challenging matters being generated.

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

supporting mental health. They are designed to help young volunteers and agencies maintain and promote positive mental health.

Read *Hazard Note 98* using this [BNHCRC link](#).

The **Care4Guide** is designed to be used by volunteers themselves to maintain and practice positive mental health and can be downloaded [here](#).



One more light : Life, Death and Humanity Through the Eyes of a Firefighter (Book)

By James Geering, 2020

What changes would you make to your life if you could view it through the lens of a first responder? *One More Light* takes you on a journey with veteran firefighter and

paramedic James Geering. As each chapter unfolds, the heart-wrenching stories are coupled with a unique physical and mental health perspective about preventing tragedy and unnecessary suffering.

Please contact the library to request a loan of this book



The 15 practices of rural community co-produced mental health initiatives: advice from people who are doing them (Report)

Social Innovation Research Institute, May 2021

This paper highlights key advice about things to do and things to think about when establishing and operating rural community co-produced initiatives. The authors hope this can be useful to community members, practitioners and policy-makers who seek to work with communities.

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

Books on this topic are found in our library's [Mental Health and You collection](#)

NATURAL ENVIRONMENT



Plants of Subtropical Eastern Australia (Book)

By Andrew Benwell

This text describes the rich flora of the biogeographically distinct region located on the east coast of Australia, covering the north coast of New South Wales and South-

East Queensland. This guide presents a selection of common, threatened and ecologically significant plants, more than 500 plants are featured.

Please contact the library to request a loan of this book

High fire frequency and the impact of the 2019–2020 megafires on Australian plant diversity (Journal article)

Diversity & Distributions. Vol 27, July 2021

BUSHFIRE MODELLING

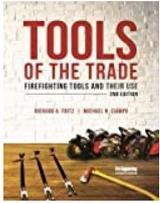
A Surrogate Model for Rapidly Assessing the Size of a Wildfire over Time (*Journal article*)

Fire, Vol 4 June 2021

Rapid estimates of the risk from potential wildfires are necessary for operational management and mitigation efforts. Computational models can provide risk metrics, but are typically deterministic and may neglect uncertainties inherent in factors driving the fire. In this paper, the authors detail the development of a surrogate model for the growth of a wildfire based on initial meteorological conditions. The results from nine bio-regions in Tasmania show that the surrogate model can closely represent the change in the size of a wildfire over time.

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

FIREFIGHTING



[Tools of the trade : firefighting tools and their use](#)

By Richard A. Fritz, 2017

Now in its second edition, this US book covers more than 100 different hand and power tools. It is a one-stop source to learn new skills or hone current skills with a wide variety of firefighting tools.

Please contact the library to request a loan of this book

How AI could alert firefighters of imminent danger (*ScienceDaily news article*)

National Institute of Standards and Technology, June 2021

Researchers have developed an artificial-intelligence-powered tool to predict and warn of a deadly phenomenon in burning buildings known as flashover, when flammable materials in a room ignite almost simultaneously, producing a potentially ferocious blaze. The tool's predictions are based on temperature and designed to operate even after heat detectors begin to fail

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

How to build a firebreak to stop smouldering peat fire: insights from a laboratory-scale study (*Journal article*)

International Journal of Wildland Fire, Vol 30, no 6 2021

The authors explore the feasibility of firebreaks to control smouldering peat fires through laboratory-scale experiments. There are two criteria for an effective peat firebreak: (I) adding water to make the peat layer sufficiently wet and (II) ensuring that the peat layer is thinner than the quenching thickness (< 5 cm).

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

Many Australian plant species have strategies to persist under certain fire regimes, and will recover given time, suitable conditions and low exposure to threats. However, short fire intervals both before and after the 2019–2020 fire season pose a serious risk to the recovery of at least 595 species

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

SMOKE POLLUTION



The limits of livability : The emerging threat of smoke impacts on health from forest fires and climate change (*Report*)

Global Climate and Health Alliance, June 2021

This report, along with three case studies from Australia, Brazil and Canada, warns that worldwide, governments must act to prepare public health systems for the impacts to the public from recurring air pollution episodes from fires caused by the climate crisis, deforestation practices, and poor land management.

Use this [Climate and Health Alliance link](#) to read the report and country briefs online

Californian smoke drifted as far as Europe in 2020 and caused heavy clouding of sun (*ScienceDaily news article*)

Leibniz Institute for Tropospheric Research, June 2021

The smoke from the extreme forest fires on the US West Coast in September 2020 travelled over many thousands of kilometres to Central Europe, where it continued to affect the atmosphere for days afterwards. A comparison of ground and satellite measurements now shows: The forest fire aerosol disturbed the free troposphere over Leipzig in Germany as never before.

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

HEALTH AND SAFETY

Australian firefighters perceptions of heat stress, fatigue and recovery practices during fire-fighting tasks in extreme environments

Applied Ergonomics, Volume 95, September 2021

The aim of this study was to assess current perceptions of heat stress, fatigue and recovery practices during active duty in Australian firefighters.

Please contact the library to request a copy of this paper

Can You Hear Me Now? (US Magazine article)

Fire Engineering, May 2021

There are a number of components involved in managing any emergency operation. Equipment, personnel, procedures, and training are all significant factors.

However, the importance of effective communication cannot be overstated.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

FIRE BEHAVIOUR



Fire spread across different fuel types: research and utilisation – final project report (Report)

BNHCRC, May 2021

When Cruz & Alexander reviewed the performance of the operational fire models on seven vegetation types found

in Australia, they found that on an average most of the fire models have an error of 20–80% in estimating the rate of fire spread. This publication provides an overview of two new models for understanding aspects of bushfire behaviour in Australia - Fire Dynamics Simulator (FDS) and FIRESTAR3D.

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

Factors influencing the development of violent pyroconvection (Journal article)

International Journal of Wildland Fire, cited online early May 2021

Violent fire-driven convection can manifest as towering pyrocumululus or pyrocumulonimbus clouds, which can have devastating impacts. This paper draws on recent insights into dynamic fire propagation and extreme wildfire development to investigate how the fire influences the occurrence of violent pyroconvective events. A static heat source of variable dimension and intensity is used. This is accompanied by a companion paper that extends the analysis by including the effect of fire geometry on the pyroconvective plume.

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

FIRE WEATHER

Downscaled GCM climate projections of fire weather over Victoria, Australia. (Journal article)

International Journal of Wildland Fire, cited online early June 2021

Anthropogenic climate change is expected to cause an increase in fire danger over south-eastern Australia during the 21st century, primarily driven by increased surface



The July/August issue of **Women's Health** is now available in our eMagazine collection. Read the lifestyle magazine that covers fitness, sex & love, food, weight loss, diet, health, beauty and style. **Men's Health** is available as well.

Contact the library for the password embedded link to access our eMagazines.

COMMUNITY ENGAGEMENT



Black Summer - how the NSW community responded to the 2019-20 bushfire season (Report)

BNHCRC, May 2021

The NSW RFS engaged the Bushfire and Natural Hazards Cooperative Research Centre to conduct research into

community preparedness, warnings and responses to the 2019-20 NSW bushfires. This report presents findings from research into community attitudes and experiences of the 2019-20 bushfire season

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

COMMUNITY RESILIENCE

Bushfire: The recovery phase, path to resilience and future readiness

United Service, Vol 72 June 2021

The 2019-20 summer bushfire on the New South Wales south coast caused massive damage to public and private property, bushland and livestock. The author, Vince Di Pietro, the Chair of the former Recovery Committee and now Shoalhaven Recovery into Resilience Project Co-ordinator, provides personal insights into the recovery effort and the follow-on path to resilience and future readiness. He discusses futuristic scenarios and alternative pathways and concludes by describing the biggest threats now faced in the aftermath of the bushfires.

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

Untangling insurance, rebuilding, and wellbeing in bushfire recovery (Journal article)

Geographical Research, Vol 59 May 2021

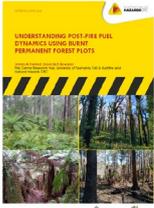
Home and contents insurance is framed as key to Australia's national strategy for disaster resilience. Analysis points to the conclusion that while insurance is a crucial tool for disaster resilience, greater levels of psychosocial support are needed to improve households' short- and longer-term recovery.

Contact the library to request a copy of the article

temperature. There are two parts to this paper – part 1 the authors assess the ability of the Multivariate Adaptive Constructed Analogs (MACA) method and part 2 MACA statistical downscaling method to 12 general circulation models to produce 21st century projections of fire weather variables over Victoria, Australia.

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

FUEL LOADS



Understanding post-fire fuel dynamics using burnt permanent forest plots

(Report)

BNHCRC, June 2021

The main goal of this study is to obtain empirical measurements of fuel load, structure and hazard within the first two years after a fire to complement the measurements of fuel loads taken directly before the fires. This will not only allow us to precisely quantify the fuel loads consumed by a range of fires, but it will also give us a baseline measurement of fuel loads.

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

FIRE EVACUATION

Evacuating under dire wildfire scenarios (ScienceDaily news article)

University of Utah, 24 May 2021

As climate change intensifies, wildfires in the West are behaving in ways that were unimaginable in the past -- and the common disaster response approaches are woefully unprepared for this new reality. Researchers now proposed a framework for simulating dire scenarios, which the authors define as scenarios where there is less time to evacuate an area than is required.

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

AVIATION



Air Attack – Issue 15 is online.

This issue looks at turning an airliner into an air tanker, Russia's aerial remote wildfire defence, and pre-season Helitac training for LA City Fire Air Ops crews

Use this [link](#) to read Air Attack online.

UAVs in Public Safety: The Next Steps in Technology (US Magazine article)

Fire Engineering, May 2021

Engaging with the home-in-ruins: memory, temporality and the unmaking of home after fire (Journal article)

Social & Cultural Geography, Published online 16 June 2021

In the aftermath of a firestorm, many survivors will spend time with the ruins of their homes, fossicking through the rubble or simply being present with the transformed space. Through a series of oral history interviews with survivors of the 2003 Canberra firestorm in the Australian Capital Territory (ACT), this paper investigates ruined homes as spaces imbued with memory – of the fire itself, of life before the fires, and of a once imagined future.

Contact the library to request a copy of the article

HISTORY

Orchard Hills Rural Fire Brigade 1970 - 2020 (Book)

NSW RFS District members celebrated the 50th anniversary of Orchard Hills Brigade in May. With over 70 members, the brigade has a proud history. This book celebrates their history.

Please contact the library to request a loan of this book

Further publications on our NSW brigade histories can be found listed [here](#).

CHILDREN'S BUSH FIRE COLLECTION

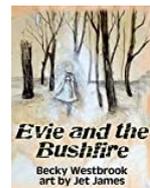


[The Little Flame](#) (Book)

By Sandra Busch, 2021

While a weary traveller sleeps, a naughty wind and a little flame play together, running through the grass, over the bushes and up the trees ... What happens when fire takes over the bush? This beautifully illustrated book is a new resource for opening up discussion about fire with children.

Please contact the library to request a loan of this book



[Evie and the Bushfire](#) (Book)

By Becky Westbrook, 2021

Inspired by bushfires that have affected many Australians, this is a moving and sensitive story of surviving a natural disaster, narrated through the eyes of children. Evie is a spirit girl. When her island home is devastated by bushfire, she emerges from the shelter of her cave to discover her community has lost all hope.

Please contact the library to request a loan of this book

Books in our children's bush fire collection can be found listed [here](#)

Now that UAVs are standard pieces of equipment for many public safety agencies, UAV program personnel are wondering, what's next? Better sensors? Smaller hardware? Streaming video? Something totally different? Yes! Many exciting technologies are on the horizon, and many are geared specifically toward public safety.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

[Putting dreams to flight](#) (Book)

By Leland Snow

An autobiography of pilot Leland Snow, the founder of Air Tractor, a company that makes planes that service the agricultural industry and fire-fighting.



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