



Emergency Management

June 2022

SOUTH AUSTRALIA'S DISASTER RESILIENCE NEWSLETTER

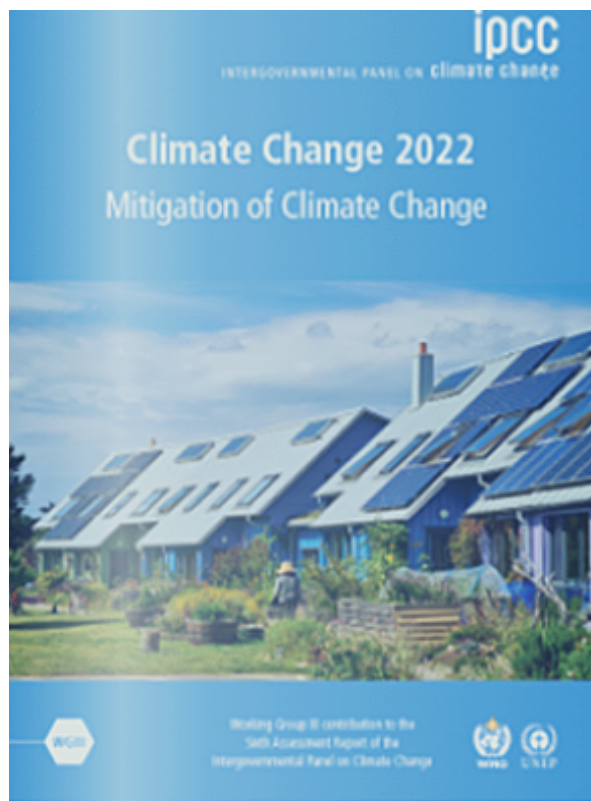
IPCC 6TH ASSESSMENT (WG3) - MITIGATION OF CLIMATE CHANGE

CLIMATE CHANGE 2022: MITIGATION OF CLIMATE CHANGE. CONTRIBUTION OF WORKING GROUP III TO THE SIXTH ASSESSMENT REPORT OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

GENEVA, Apr 4 - From 2010-2019 average annual global greenhouse gas emissions were at their highest levels in human history, but the rate of growth has slowed. Without immediate and deep emissions reductions across all sectors, limiting global warming to 1.5°C is beyond reach. However, there is increasing evidence of climate action, said scientists in the latest Intergovernmental Panel on Climate Change (IPCC) report.

Since 2010, there have been sustained decreases of up to 85% in the costs of solar and wind energy, and batteries. An increasing range of policies and laws have enhanced energy efficiency, reduced rates of deforestation and accelerated the deployment of renewable energy.

The Working Group III report provides an updated global assessment of climate change mitigation progress and pledges and examines the sources of global emissions. It explains developments in emission reduction and mitigation efforts, assessing the impact of national climate pledges in relation to long-term emissions goals.



More information are available at <https://www.ipcc.ch/report/ar6/wg3/>





UNINSURABLE NATION: AUSTRALIA'S MOST CLIMATE-VULNERABLE PLACES



UNINSURABLE NATION: AUSTRALIA'S MOST CLIMATE-VULNERABLE PLACES



Climate change, driven by the burning of coal, oil and gas is supercharging our weather systems. While climate change affects all Australians, the risks are not shared equally. In the most extreme instances, areas may become uninhabitable.

Worsening extreme weather means increased costs of maintenance, repair and replacement to properties – our homes, workplaces and commercial buildings. As the risk of being affected by extreme weather events increases, insurers will raise premiums to cover the increased cost of claims and reinsurance.

Insurance will become increasingly unaffordable or unavailable in large parts of Australia due to worsening extreme weather.

This report outlines the top 20 most at-risk federal electorates to climate change-related extreme weather events, providing a brief profile of the top 10. The report also outlines the most at risk electorates for each state and territory. Check out the Climate Risk Map to see if your area is at risk.

<https://www.climatecouncil.org.au/resources/uninsurable-nation-australias-most-climate-vulnerable-places/>



SASES PARTNERS WITH NRMA INSURANCE TO INCREASE COMMUNITY DISASTER RESILIENCE

The **South Australian State Emergency Service** (SASES) welcomed their first corporate partner **NRMA Insurance**, both organisations working collaboratively together will help South Australians better prepare for storms and floods.

NRMA Insurance, plays a critical role in supporting its customers and communities following a disaster, together with the SASES they share a mission to create safer and more resilient communities that are better prepared for and respond to severe weather events.

This partnership will enable SASES to provide more resources to local units to help community engagement volunteers educate communities on their risks and how to mitigate their risks through preparedness actions.





TEMPORARY BREACHING OF 1.5°C IN NEXT FIVE YEARS?

A new study, led by the UK Met Office, has revealed a very strong likelihood that one of the next five years will be the warmest on record globally, beating the current record year of 2016.

The chance of at least one of the next five year's exceeding 1.5°C above pre-industrial levels is now about 50:50 (48%).

The Global Annual to Decadal Climate Update – produced with the World Meteorological Organization – also highlights a 93% chance that the five-year average global temperature for 2022-2026 will be higher than the average for the last five years (2017-2021).

Some of the report's key findings include:

- *The annual mean global near-surface temperature for any year in the next five years is predicted to be between 1.1°C and 1.7°C higher than pre-industrial levels.*
- *The chance of at least one year exceeding 1.5°C above pre-industrial levels between 2022-2026 is about as likely as not (48%). However, there is only a very small chance (10%) of the five-year mean exceeding this threshold.*
- *The chance of at least one year in the next five years exceeding the current warmest year, 2016, is over 90%. The chance of the five-year mean for 2022-2026 being higher than the last five years (2017-2021) is also over 90%.*

Predicted precipitation patterns for 2022 compared to the 1991-2020 average suggest an increased chance of drier conditions over southwestern Europe and southwestern North America and wetter conditions in northern Europe, the Sahel (region of western and north-central Africa) and Australia.

There is no signal for the El Niño Southern Oscillation for December-February 2022/23, nevertheless the Southern Oscillation Index is predicted to be positive in 2022, suggesting a predominance of La Niña characteristics during the year.

- Predicted precipitation patterns for the months November to March 2022/23-2026/27 compared to the 1991-2020 average are consistent with the patterns expected from climate warming.





INTRODUCING THE NEW AFDRS DESIGN AND COMMUNITY MESSAGING

Australian Fire Danger Rating System (AFDRS) Program Board has signed off on the final look and feel of the AFDRS device and accompanying high-level messaging. This will mean that wherever people are in Australia, or whether they are at home or traveling, the community will see a similar sign and with consistent advice on what to do at each level, while also allowing enough flexibility for agencies to meet the needs of their communities.

The signs have been designed in a way that meets accessibility standards, using a common road-side signage font, which will be slightly adjusted for other mediums such as websites and social media.

Optional elements are:

- A timestamp has been recommended to instill confidence that the information is up to date and relevant, however these may not be practical for all signs, particularly those in remote areas.
- Community messaging is considered best practice, but it is also acknowledged that it may not be a practical or affordable option for some jurisdictions across all their signs.



The agreed high-level messaging is:

- Moderate:** Plan and prepare
- High:** Be ready to act
- Extreme:** Take action now to protect life and property
- Catastrophic:** For your survival, leave bushfire risk areas

A style guide is being developed and will be provided to local implementation teams and stakeholders in the coming weeks.





NEARLY \$10M TO STOP MOUNT BOLD DAM FAILING

The Federal Government has announced a \$9.5 million investment to upgrade the Mount Bold Dam, following years of advocacy from the local community and City of Onkaparinga.

The upgrades at Mount Bold Dam are for safety purposes to prepare and prevent Onkaparinga communities from future flood risk.

The Federal Government funding was awarded through the *National Flood Mitigation Infrastructure Program*, to help protect the lives and properties of the Old Noarlunga community.

<https://recovery.gov.au/national-flood-mitigation-infrastructure-program-21-22>

The \$325 million Mount Bold Dam Safety Project is part of SA Water's upgrade of the Mount Bold reservoir dam, which was to provide protection for a one-in-18-year Annual Exceedance Probability (AEP) flood event if the reservoir was full. The federal funding means a superior flood option can now be built, offering protection for a one-in-100-year AEP flood event if the reservoir is full, it will support the development of a flood attenuation system to safely pass the probable maximum flood over the dam's spillways, without causing it to fail.



Australian Institute for
Disaster Resilience

AIDR KNOWLEDGE HUB

The Australian Institute for Disaster Resilience (AIDR) develops, maintains and shares knowledge and learning to support a disaster resilient Australia.

The AIDR has developed the Knowledge Hub a national platform that supports and informs policy, planning, decision making and contemporary good practice in disaster resilience.

Community broadcasters are encouraged to refer to the following handbooks from the Knowledge Hub:

Australian Emergency Management Arrangements articulate the principles, structures and procedures that support national coordination of emergency management.

The Public Information and Warnings Handbook provides guidance on republishing warnings during emergencies for established emergency broadcasters, individuals and community members and private warning publishers or disseminators.

Warning Message Construction: Choosing your words provides guidance on key considerations for writing effective warning messages, a proposed structure for a warning message, specific language to use when constructing messages, and suggestions for constructing warning messages for non-English speaking audiences.

Public Information and Warnings is a critical element of emergency management, with the power to save lives. This handbook provides insight and guidance to people who have responsibility for communication with the public in the event of an emergency.





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CONFERENCE CORNER



Disaster & Emergency Management Conference, 25 July 2022. This annual event is designed for all leaders, change-makers and workers in the disaster and emergency management sector.

Dates: Mon, 25 July 2022 – Tue, 26 July 2022

Location: RACV Royal Pines Resort Gold Coast

[Click here to access the ANZDMC website](#)



The Australian Disaster Resilience Conference returns in 2022 with the latest ideas and innovations in disaster resilience and risk reduction on 24 – 25 August 2022 – at Adelaide Convention Centre

Inclusions and highlights

- Two full days of a conference program featuring two streams of presentations
- Shared keynote presentations with AFAC22
- ADRC networking function featuring South Australian Resilient Australia Awards Ceremony
- Full daytime catering
- Full access to the People's Choice Poster Gallery
- Full access to the AFAC22 powered by INTERSCHUTZ Trade Exhibition
- Ongoing free public access to conference proceedings on the Australian Disaster Resilience Knowledge Hub

<https://www.aidr.org.au/resources/adrc-2022-program/>



Each decision and action makes us more vulnerable to disasters – or more resilient to them. Thus disaster risk reduction involves every part of society, every part of government, and every part of the professional and private sector." United Nations International Strategy for Disaster Reduction.



AFAC22 Program Released

Explore the most comprehensive AFAC conference program to date, featuring more than 90 presenters responding to the conference theme 'Connecting communities. Creating resilience.'

<https://www.afaconference.com.au/>



With the Asia-Pacific experiencing a growth in the frequency and intensity of disasters, investment in reducing our risk to disasters is vital to saving lives and livelihoods, minimizing economic loss, and ensuring no one is left behind.

The 2022 Asia-Pacific Ministerial Conference on Disaster Risk Reduction presents an opportunity for delegates from across the Asia Pacific to showcase and share experiences, action, and innovation to help build a resilient future for the region.

The conference will be held in Brisbane, Queensland from **19-22 September 2022 at the Brisbane Conference and Exhibition Centre**

<https://apmcdrr.undrr.org/>

AIDR Professional Development Prospectus

The 2022-23 professional development prospectus outlines the masterclasses, workshops and events available to AIDR stakeholders over the next 12 months.

The AIDR professional development program aims to equip individuals and groups to achieve improved resilience outcomes in their organisations and communities.



AIDR offers regular professional development and learning opportunities to benefit those working and volunteering in disaster resilience across a range of sectors.

<https://www.aidr.org.au/news/aidr-professional-development-prospectus-2022-23/>





Floodplain Management Australia Conference

Toowoomba, 17-20 May 2022 - Reflections

The FMA Conference was held in a hybrid model, in-person and online from the 17-20 May 2022 in Toowoomba, Qld.

The theme of the conference was *"Integrated Floodplain Management: creating safer, stronger communities"*, referencing Toowoomba Regional Council's extensive program of flood studies and plans aimed at delivering a *"Safer, Stronger, More Resilient Region"*.

It was a packed four days with presentations and posters covering all aspects of floodplain management from prevention and preparedness to response and recovery. Representatives from SA provided an update on Planning and Land Use Services flood mapping project, FloodMon(TM)'s rain forecasting function and the Issues and challenges of setting flood classifications in SA.



Key messages from the range of exceptional speakers included:

- "Rare floods are common", and every flood is different.
- "Community is the core of Emergency Management and planning".
- "Lights and sirens is not a sign of success", and the importance in promoting "resilience, not reliance".
- "Never waste a disaster", and the tragedy of not growing from disasters.
- "Build better" vs. "Build back better", and greater need for emergency management sector needs to be involved in land use planning.
- Importance of community engagement and reconsideration of "1 in 100" language and messaging.

Outcomes from the panel discussion on the 2022 East Coast Flood Events were also extremely valuable. The panel highlighted the following key strengths as lessons learned:

- Community driven response and community partnerships
- Positive action since 2011 floods (including relocation of Grantham)
- Business continuity planning for local businesses enabled bounce-back
- Efficiency and collaboration in damage assessment.

The 2023 Floodplain Management Australia conference will be held in Luna Park, Sydney.





Preparing Australian Communities Program – Local




The Preparing Australian Communities Program – Local stream is providing support to locally identified and locally-led projects that will improve the resilience of communities against natural hazards.

158 projects have been successful under Round One of the *Preparing Australian Communities – Local program*, totaling \$150 million (as in the image on the right)

Projects are aimed at reducing the risk to and improving the resilience of communities against bushfires, flood and tropical cyclones and increasing communities' ability to mitigate, avoid, withstand, and recover from the increasing effects of natural hazards because of climate change, through activities targeting or delivering resilience in the social, economic, natural, or built environments.

A second round of grants under the Preparing Australian Communities Program – Local is currently proposed to be delivered in 2023.

Applicant	Project	Amount funded
The Corporation of The City of Adelaide	Resilient Flood Planning, City of Adelaide	\$3,722,046.00
Adelaide Hills Council	Towards Community Led Resilience	\$1,028,800.00
Corporation Of The City of Marion	Resilient South Regional Climate Action Plan	\$99,000.00
Corporation Of The City Of Norwood Payneham & St Peters	Trinity Valley Stormwater Management Upgrade	\$9,913,174.00
Kangaroo Island Council	Kangaroo Island Natural Disaster Risk Mitigation Project	\$290,000.00
Goolwa To Wellington Local Action Planning Association Incorporated	Cultural burning for bushfire risk reduction in the Bull Creek Range	\$97,900.00
Mount Barker District Council	Fire 2 Flourish: mitigate and reduce disaster risk in the Mt Barker LGA	\$1,376,818.00
Yorke Peninsula Council	Understanding cultural burns as an on-Country risk reduction practice	\$77,000.00
City Of Onkaparinga	Bushfire preparedness and resilience in the City of Onkaparinga	\$3,578,875.00
Charleston Community Centre Inc	Improving facilities at Charleston Hall for relief, support, and resilience	\$99,632.00
Returned And Services League In South Australia Tumby Bay Branch	Tumby Bay RSL Building Optimisation Project for a Community Support Hub	\$98,400.00
City Of Holdfast Bay	Tariton and Whyte Street, Somerton Park Flood Protection	\$2,927,000.00
Adelaide Plains Council	Coastal Adaptation Study and Coastal Adaptation Strategy	\$60,000.00
City Of Port Adelaide Enfield	Disaster Risk Reduction in Port Adelaide (DRRPAP)	\$2,180,000.00
Southern Koala and Echidna Rescue Ltd	SKER Bushfire Infrastructure	\$37,250.00
Southern And Hills Local Government Association	Lower Brown Hill Creek Upgrades	\$100,000.00
Kingscote Football Club	Upgrade of Kingscote Emergency Relief Centre and Last Resort Refuge	\$99,542.00
Brown Hill And Keswick Creeks Stormwater Board	Lower Brown Hill Creek Upgrades	\$10,000,000.00
District Council of Loxton Waikerie	Riverland Flood Disaster Risk Reduction Project – Waikerie Jetty Replacement	\$178,832.00
City of Salisbury	Emergency Response Flood Response Plan for flood vulnerable residents	\$96,500.00

-  Community Resilience
-  Flood
-  Bushfire

For more information: <https://recovery.gov.au/preparing-australian-communities-program-local>





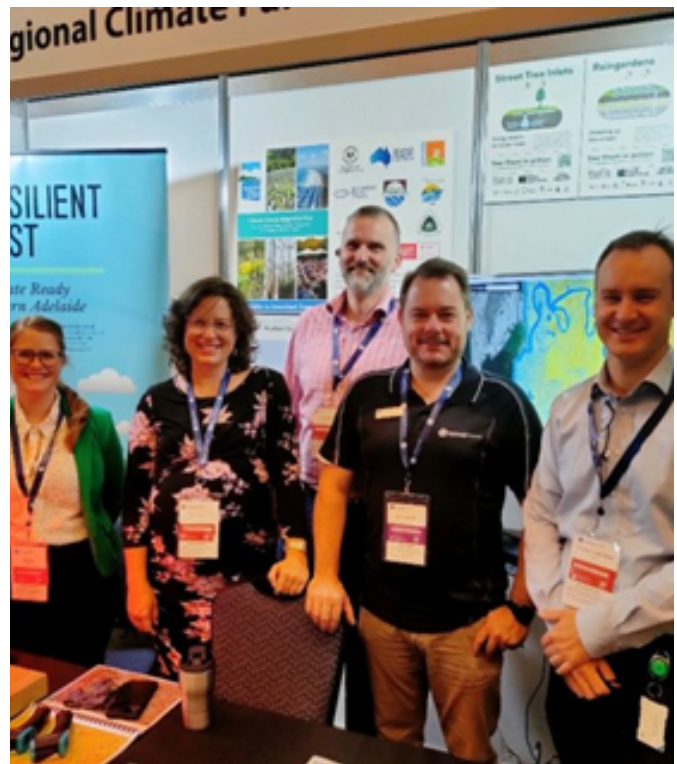
Intro To The Regional Climate Partnerships

The Regional Climate Partnerships are a network of eleven regional, cross-sectoral groups delivering practical action to strengthen the climate resilience of their communities, economies and natural and built environments.

The partnerships first came together to develop regional climate change adaptation plans, which were completed by 2016. Many regions have since expanded their focus to include emissions reduction and other climate risk management initiatives.

The eleven partnerships are: Adapting Northern Adelaide, Adapt West, Barossa, Eyre Peninsula, Far North, Limestone Coast, Murraylands & Riverland, Northern and Yorke, Resilient East, Resilient Hills & Coasts and Resilient South. Partners include councils, regional organisations of councils, Regional Development Australia organisations, Landscape SA Boards, and the South Australian Government.

We also can collaborate effectively across our regions to scale up good ideas that prepare for the impacts of climate change, addressing climate risks within our organisations and for our communities.



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We're going to keep you updated with what the regions are working on and spotlighting how preparedness work through adapting to climate change can help mitigate the impact and risks of more extreme weather events.

Here pictured are some of the Coordinators represented at a recent LGA showcase for Elected Members – Resilient East (Bec Taylor), Resilient Hills and Coast (Jen St Jack), Adapt West (Jeremy Miller), Central Coordinator hosted at the LGA (Andrew Nesbitt) and Resilient South (Stefan Caddy-Retalic).





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SES
RESCUE

South Australian parliament declares climate emergency



The South Australian parliament has passed a motion declaring a climate emergency, reaffirming an urgent need to decarbonise the state's economy joining other governments and jurisdictions around the world in declaring a climate emergency.

The Labor government's climate emergency motion passed both houses of state parliament on Tuesday night (31 May 2022), reaffirming the urgent need to decarbonise SA's economy and shift to renewable sources of energy.

Climate Minister Susan Close said 10 years of inaction and climate culture wars at the state and federal levels had left Australia exposed to the effects of climate change, as well as stymying investment in the renewable energy sector

The most recent United Nations Intergovernmental Panel on Climate Change report confirmed that some parts of Australia had already recorded increased average temperatures of 1.4C since 1910, she noted.

"We really need to focus on supporting projects and policies which are climate-friendly and encourage growth in resilient low-carbon businesses," Ms Close said.

"The government will position South Australia to take advantage of the global need to rapidly reduce emissions.

Foot and mouth disease detected in Indonesia

9 May 2022

The Australian Department of Agriculture, Water, and the Environment was advised of an outbreak of foot and mouth disease (FMD) in Indonesia.

FMD is a contagious viral disease in cattle, sheep, goats, and pigs with severe consequences for animal health and trade.

Australia has offered assistance to Indonesia to combat and contain the outbreak in Java and Sumatra. Australia is currently free from FMD.

Past preparations include the establishment of an FMD vaccine bank in 2004 to ensure Australia has access to vaccines should they ever be required to respond to an outbreak.

FMD can spread through close contact between animals, and be carried on animal products or short distances by the wind.

Anyone keeping or working with cattle, sheep, goats or pigs should be aware of the signs of FMD: blisters on the mouth and drooling or limping animals.

If livestock exhibit any unusual signs, people are urged to call their veterinarian or Australia's Emergency Animal Disease Watch Hotline on 1800 675 888.

Anyone returning to Australia after visiting a farm or interacting with livestock abroad should declare this upon their return.

The Australian Bureau of Agricultural and Resource Economics and Sciences in 2013 determined that a large outbreak of FMD in Australia would have a significant financial impact.

The department is making every effort to further strengthen national biosecurity and underline the importance of on-farm biosecurity.

<https://www.awe.gov.au/biosecurity-trade/pests-diseases-weeds/animal/fmd>

