



Photo: Austockphoto

- Key Topics:
- multi-hazard [2]
 - resilience [3]
 - vulnerability [4]

The Australian Natural Disaster Resilience Index: A system for assessing the resilience of Australian communities to natural hazards [5]
This project developed an index of the current state of disaster resilience in Australian communities – the Australian Disaster Resilience Index. The Index is a tool for assessing the resilience of communities to natural hazards at a large scale and is designed to provide input into macro-level policy, strategic planning and community engagement activities at national, state and local government levels.
Deliverables include the development of disaster resilience indicators, maps of disaster resilience at multiples scales, a State of Disaster Resilience Report, and examples that use the Index in a natural hazard resilience planning context.

Project: detail Notabs

Research team

Research leader

[6]



Dr Melissa Parsons
[6]
RESEARCH LEADER



[7]

Research team

[8]



A/Prof Graham Marshall
[8]
RESEARCH TEAM



[7]

[9]



Dr Ian Reeve
[9]
RESEARCH TEAM



[7]

[10]



Dr James McGregor
[10]
RESEARCH TEAM



[7]

[11]



Dr Judith McNeill
[11]
RESEARCH TEAM



[7]

[12]



Dr Peter Hastings
[12]
RESEARCH TEAM



[13]

[14]



Dr Richard Stayner
[14]
RESEARCH TEAM



[7]

[15]



Dr Sonya Glavac
[15]
RESEARCH TEAM



[7]

End User representatives

[16]



Anthony Bradstreet
[16]
END-USER



[17]

[18]



Andrew Richards
[18]
END-USER



[19]

[20]
























Chris Lewis
[20]
END-USER

[22]



Colleen Ridge
[22]
END-USER

<p>[21]</p>	 <p>[23]</p>
<p>[24]</p>  <p>Dr Holly Foster [24] END-USER</p>  <p>[25]</p>	<p>[26]</p>  <p>Karen Enbom [26] END-USER</p>  <p>[27]</p>
<p>[28]</p>  <p>Nicole Hogan [28] END-USER</p>  <p>[19]</p>	<p>[29]</p>  <p>Paul Fletcher [29] END-USER</p>  <p>[30]</p>
<p>[31]</p>  <p>Sandra Barber [31] END-USER</p>  <p>[32]</p>	<p>[33]</p>  <p>Suellen Flint [33] END-USER</p>  <p>[34]</p>
<p>[35]</p>  <p>Stefanie Russell [36] END-USER</p>  <p>[27]</p>	<p>[37]</p>  <p>Tamara Beckett [37] END-USER</p>  <p>[38]</p>
<p>[39]</p>  <p>Trent Curtin [39] END-USER</p>  <p>[40]</p>	<p>[41]</p>  <p>Tony Jarrett [41] END-USER</p>  <p>[42]</p>

Description

Download key research reports

Resilience is the capacity of individuals and communities to cope with disturbances or changes and to maintain adaptive behaviours. Australia’s National Strategy for Disaster Resilience (NSDR) takes an internationally progressive approach in the application of a disaster resilience paradigm. This strategy gives communities greater options and diversity in managing natural hazards, and places natural hazard preparation, prevention, response and recovery in the context of societies learning from and adapting to change.

The NSDR recognises four characteristics of disaster resilient communities: 1) they function well while under stress 2) they adapt successfully 3) they are self-reliant and 4) they have strong social capacity. Building these characteristics of disaster-resilient communities is seen as a shared responsibility among individuals, households, businesses, governments and communities. Yet how could progress towards the development of these characteristics be assessed? Where are the areas of high and low disaster resilience in Australia? How could investments to develop disaster resilience be prioritised, evaluated and reported?

This project developed an index of the current state of disaster resilience in Australian communities – the Australian Disaster Resilience Index. The Index is a tool for assessing the resilience of communities to natural hazards at a large scale and is designed to provide input into macro-level policy, strategic planning and community engagement activities at national, state and local government levels.

First, it is a snapshot of the current state of natural hazard resilience at a national scale. Second, it is a layer of information for use in strategic policy development and planning. Third, it provides a benchmark against which to assess future change in resilience to natural hazards. Understanding resilience strengths and weaknesses will help communities, governments and organisations to build the capacities needed for living with natural hazards.

Deliverables include the development of disaster resilience indicators, maps of disaster resilience at multiples scales, a State of Disaster Resilience Report, and examples that use the Index in a natural hazard resilience planning context.

The Index has application across local (e.g. local emergency management committees, local councils), state (e.g. emergency service organisations) and national (e.g. Attorney-General’s Department, Red Cross, ANZEMC, AFAC) levels.

The project team worked with end-users to align the results and outputs from the Index with agency policy and programs. The researchers worked with agencies to develop fact sheets that agencies can use in community profiling and community engagement tools. The Index results can also be included in risk assessments. The maps provide quantitative spatial information about resilience for community planning and community engagement activities.

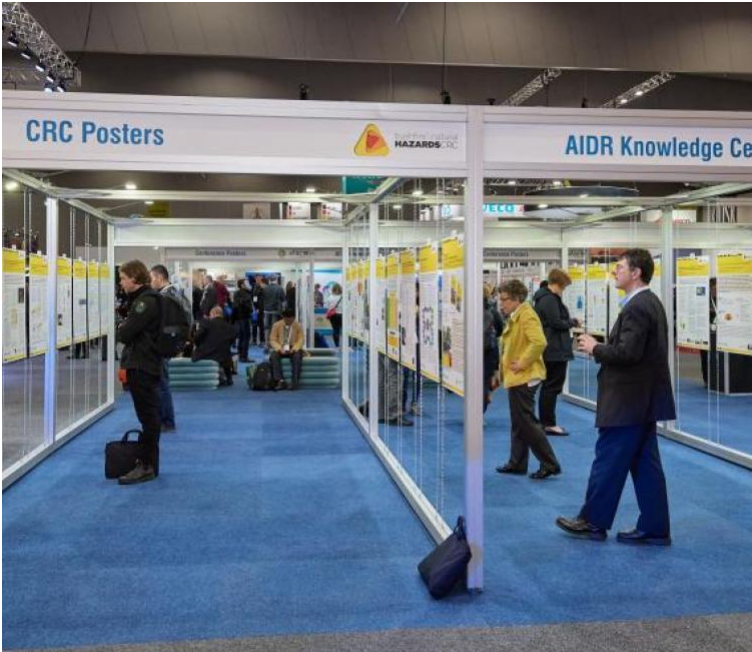
Related News



30 JUL 2021

New online - July 2021
EMERGENCY MANAGEMENT, LAND MANAGEMENT

[44]



25 MAY 2021

New online - May 2021
COMMUNICATION, MULTI-HAZARD

[45]



14 MAY 2021

Making better use of research
CAPABILITY, EMERGENCY MANAGEMENT

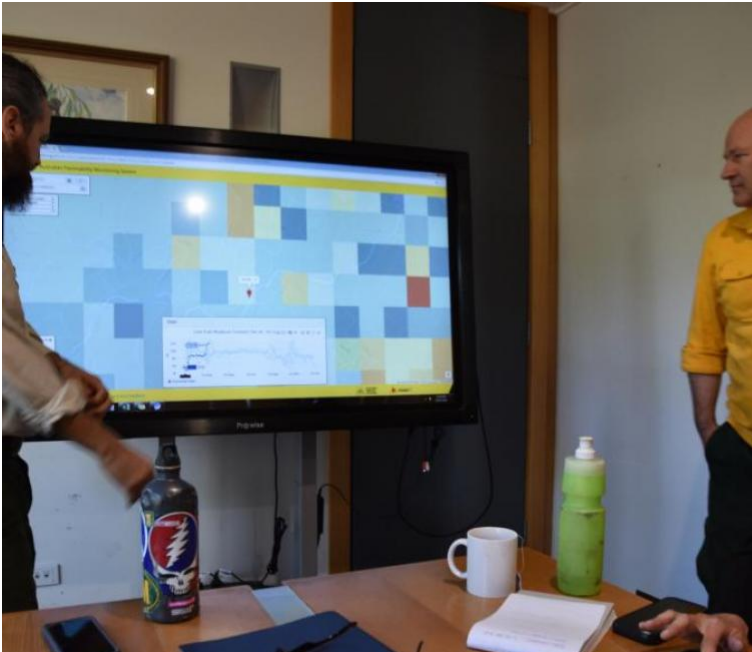
[46]



05 APR 2021

Floodplains aren't separate to a river — they're an extension of it. It's time to change how we connect with them
COMMUNITIES, FLOOD

[47]



18 NOV 2020

Establishing a wider view of impact
LOCAL KNOWLEDGE

[48]



16 NOV 2020

New online - November 2020
COMMUNICATION, EMERGENCY MANAGEMENT

[49]



06 NOV 2020

Latest AJEM edition features CRC research on post-disaster management
EMERGENCY MANAGEMENT, MULTI-HAZARD

[50]



02 OCT 2020

The new Australian Disaster Resilience Index: a tool for building safer, adaptable communities
MULTI-HAZARD, RESILIENCE

[51]



17 SEP 2020

Resilience research central to blueprint
FIRE, FLOOD

[52]



14 AUG 2020

New online - August 2020
COMMUNICATION, LOCAL KNOWLEDGE

[53]



29 JUL 2020

A new measure of disaster resilience for Australian communities
MULTI-HAZARD, RESILIENCE

[54]



20 JUL 2020

CRC to launch industry-first disaster resilience website
COMMUNITIES, RESILIENCE

[55]



30 JUN 2020

Science galore – key CRC event dates
EMERGENCY MANAGEMENT, PRESCRIBED BURNING

[56]



25 JUN 2019

How to influence people with research

[57]



12 DEC 2018

A model for relief and recovery
MULTI-HAZARD, RESILIENCE

[58]



19 OCT 2018

Research increasing preparedness
CHILD-CENTRED, INDIGENOUS COMMUNITIES

[59]



Making a difference
FIRE, RISK MANAGEMENT

01 JUN 2018

[60]



Enhancing teamwork and research utilisation
COMMUNITIES, DECISION MAKING

31 MAY 2018

[61]

Australian Journal of EMERGENCY MANAGEMENT

Volume 33, No. 2, April 2018
ISSN: 1324-1540



Lessons learnt post-disaster
EMERGENCY MANAGEMENT, MITIGATION

04 MAY 2018

[62]



A model for relief and recovery
MULTI-HAZARD, RESILIENCE

18 DEC 2017

[63]



New online - November 2017

17 NOV 2017

[64]



Briefing to enhance policy
EMERGENCY MANAGEMENT, POLICY

20 OCT 2017

[65]



26 OCT 2016

Journal publishes important research

[66]



14 SEP 2016

New online - September 2016

[67]



New online - August 2016

16 AUG 2016

[68]



New online - March 2016

15 MAR 2016

[69]



15 JUN 2015

The cyclone doesn't come on pay day
INDIGENOUS COMMUNITIES, NORTHERN AUSTRALIA

[70]



05 JUN 2015

Top end resilience discussed
INDIGENOUS COMMUNITIES, NORTHERN AUSTRALIA

[71]



16 APR 2015





















Sendai through a different lens
COMMUNITIES, RESILIENCE

[72]

Publications

Year	Type	Citation
2021	Journal Article	Parsons, M. [6] <i>et al.</i> Disaster resilience in Australia: A geographic assessment using an index of coping and adaptive capacity [73]. <i>International Journal of Disaster Risk Reduction</i> 62 , (2021). I
2021	Journal Article	McGregor, J. [10], Parsons, M. [6] & Glavac, S. [15] Local Government Capacity and Land Use Planning for Natural Hazards: A Comparative Evaluation of Australian Local Government Areas
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 2: Indicators [83]. <i>The Australian Natural Disaster Resilience Index</i> (Bushfire and Natural Hazards CRC,
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Disaster Resilience Index: a summary [87]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [88] BibTeX [89] EndNote XML [90]
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 1: Design of the Index [91]. <i>The Australian Natural Disaster Resilience Index</i> (Bushfire and Natural Haz
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 6: Uncertainty and sensitivity analysis [95]. <i>The Australian Natural Disaster Resilience Index</i> (Bushfire
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Index Design and Computation [99]. <i>The Australian Natural Disaster Resilience Index</i> (Bushfire and Natural Haz
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 5: Statistical outputs: disaster resilience themes [103]. <i>The Australian Natural Disaster Resilience In</i>
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Disaster Resilience Index: Volume I – State of Disaster Resilience Report [107]. <i>The Australian Disaster Resilience Index</i> (Bushfire and Natural Hazards CRC,
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 4: Statistical outputs: ANDRI, coping capacity and adaptive capacity [111]. <i>The Australian Natural L</i>
2020	Report	Parsons, M. [6] <i>et al.</i> A typology of disaster resilience in Australia - annual report 2018-19 [115]. (Bushfire and Natural Hazards CRC, 2020). Google Scholar [116] BibTeX [117] EndNote XML [118]
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Volume II – Chapter 3: Computation of the Australian Natural Disaster Resilience Index [119]. <i>The Australian Natural Dis</i>
2020	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: a system for assessing the resilience of Australian communities to natural hazards - final project report [123]. (Bushfir
2018	Journal Article	Parsons, M. [6] & Thoms, M. [127] From academic to applied: operationalising resilience in river systems [128]. <i>Geomorphology</i> 305 , 242-251 (2018). DOI [129] Google Scholar [130] BibTeX [131]
2018	Journal Article	Parsons, M. [6] Extreme floods and river values: A social–ecological perspective [133]. <i>River Research and Applications</i> 1-11 (2018). doi:https://doi.org/10.1002/rra.3355 DOI [134] Google Scholar
2017	Conference Paper	Rumsewicz, M. [138] Research proceedings from the 2017 Bushfire and Natural Hazards CRC and AFAC Conference [139]. <i>Bushfire and Natural Hazards CRC & AFAC annual conference 2017</i> (t
2017	Conference Paper	Parsons, M. [6] & Lykins, A. [143] Cultural worldviews and natural hazard risk perception: a pilot study of Australian adults [144]. <i>AFAC17</i> (Bushfire and Natural Hazards CRC, 2017). Google Sch
2017	Conference Paper	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: assessing Australia's disaster resilience at a national scale [148]. <i>AFAC17</i> (Bushfire and Natural Hazards CRC, 2017). Gc
2017	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: annual project report 2016-17 [152]. (Bushfire and Natural Hazards CRC, 2017). Google Scholar [153] BibTeX [154] EndNot
2016	Journal Article	Parsons, M. [6] <i>et al.</i> Top-down assessment of disaster resilience: A conceptual framework using coping and adaptive capacities [156]. <i>International Journal of Disaster Risk Reduction</i> 19 , (201
2016	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Overview of Indicators [161]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [162] BibTeX [163] EndNote XML (
2016	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Annual project report 2015-2016 [165]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [166] BibTeX [167] Endf
2016	Report	Parsons, M. [6] <i>et al.</i> The Australian Natural Disaster Resilience Index: Conceptual framework and indicator approach [169]. (Bushfire and Natural Hazards CRC, 2016). Google Scholar [170] Bib
2015	Report	Morley, P. [173] & Parsons, M. [6] The Australian Natural Disaster Resilience Index Annual Report 2014 [174]. (2015). Google Scholar [175] BibTeX [176] EndNote XML [177]
2015	Report	Morley, P. [173] <i>et al.</i> The Australian Natural Disaster Resilience Index: Annual project report 2014-2015 [178]. (Bushfire and Natural Hazards CRC, 2015). Google Scholar [179] BibTeX [180] Endf

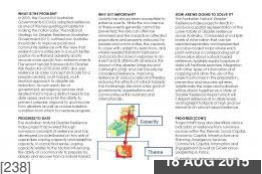
Presentations & Resources

DATE	TITLE	DOWNLOAD	KEY TOPICS
19 Mar 2014	The Australian natural disasters resilience index [184]	 612.61 KB	[185] (612.61 KB), multi-
08 Sep 2014	The Australian natural disaster resilience index [187]	 1.17 MB	[188] (1.17 MB) [189], re
27 Oct 2014	Developing an index of resilience for Australian communities [190]		communities [189], re
10 Apr 2015	The Australian Natural Disaster Resilience Index 2015 NSW RAF Presentation [191]	 3.5 MB	[192] (3.5 MB) [189], m
17 May 2016	The Australian natural disaster resilience index: a system for assessing the resilience of Australian communities to natural hazards [193]	 2.56 MB	[194] (2.56 MB) [189], m
14 Jun 2016	What is disaster resilience and how can it be measured? [195]	 373.58 KB	[196] (373.58 KB) [189], inc
18 Apr 2017	The Australian Natural Disaster Resilience Index - April 2017 [198]	 2.78 MB	[199] (2.78 MB) [2], resili
07 Jul 2017	Lightning presentation: the Australian Natural Disaster Resilience Index [200]	 1.16 MB	[201] (1.16 MB) [2], resili
07 Sep 2017	Cultural worldviews and natural hazard risk perception: a pilot study of Australian adults [202]	 540.59 KB	[203] (540.59 KB) [189], inc
07 Sep 2017	The Australian Natural Disaster Resilience Index [204]	 928.51 KB	[205] (928.51 KB), resili
15 Sep 2017	Assessing Australia's resilience to natural hazards [206]	 495.38 KB	[207] (495.38 KB) [189], po
17 Apr 2018	The Australian Natural Disaster Resilience Index [209]	 2.17 MB	[210] (2.17 MB) [1], multi-
01 Jun 2018	Fire Australia Issue Two 2018 [212]	 6.73 MB	[213] (6.73 MB) [189], de
18 Jun 2019	The Australian Natural Disaster Resilience Index: A profile of Australia's disaster resilience [216]	 975.98 KB	[217] (975.98 KB) [189], re
09 Jul 2019	The Australian Natural Disaster Resilience Index: A profile of Australia's disaster resilience [218]	 1.47 MB	[219] (1.47 MB) [20], plan
15 Jul 2020	Introducing the Australian Disaster Resilience Index [222]	 0 bytes	[223] (0 bytes) [189], pr
29 Jul 2020	The Australian Disaster Resilience Index [43]		communities [189], m
29 Jul 2020	The Australian Disaster Resilience Index – User guide: dashboard features [225]	 0 bytes	[226] (0 bytes)
29 Jul 2020	The Australian Disaster Resilience Index – User guide: interpreting the Index [227]	 0 bytes	[228] (0 bytes)
29 Jul 2020	The Australian Disaster Resilience Index – User guide: selecting and saving areas [229]	 0 bytes	[230] (0 bytes)
29 Jul 2020	The Australian Disaster Resilience Index – video tour [231]	 0 bytes	[232] (0 bytes)
30 Jul 2020	The Australian Disaster Resilience Index – launch recording [233]	 0 bytes	[234] (0 bytes) [2], resili
31 Jul 2020	The new Australian Disaster Resilience Index: a tool for building safer, adaptable communities [235]		multi-hazard [2], resili
25 Nov 2020	A model for relief and recovery [236]		multi-hazard [2], resili

Posters



[237]
The Australian natural disaster resilience index: A system for assessing the resilience of Australian communities to natural hazards [237]
Resilient communities will be better able to anticipate hazards, withstand adversity, reduce losses and adapt...



[238]
The Australian Natural Disaster Resilience Index: Assessing the Resilience of Australian Communities to Natural Hazards [238]
MULTI-HAZARD [2], RESILIENCE [3]
Resilient communities are better able to anticipate hazards, withstand adversity, reduce losses and recover...



[239]
Indicators of disaster resilience for the Australian natural disaster resilience index [239]
INFRASTRUCTURE [240], RESILIENCE [3]
The Australian natural disaster resilience index (ANDRI) will assess the state of disaster resilience in...



[240]

[241] 30 JUN 2017

The Australian Natural Disaster Resilience Index

[241]
MULTI-HAZARD [2], RESILIENCE [3]

Australia faces increasing losses from natural hazard events. Resilient communities will be better able to...

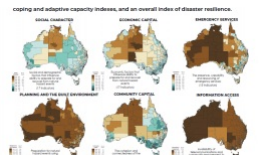


[242] 10 SEP 2018

Virtually Resolute: Influencing Decision-Making to Promote Mental Health and Reduce Flood Driving

[242]
COMMUNITIES [189], DECISION MAKING [214]

Flood driving fatalities are on the rise despite appeals to the general public. While much is known about the...



[243] 19 SEP 2018

The Australian Natural Disaster Resilience Index

[243]
MULTI-HAZARD [2], RESILIENCE [3]

The Australian Natural Disaster Resilience Index will assess and report the resilience of Australian...

27 AUG 2019

A profile of Australia's disaster resilience

[244]
RESILIENCE [3]

Australian communities face increasing losses and disruption from natural disasters. Disaster resilience is a...



[245] 31 AUG 2020

The Australian Disaster Resilience Index Dashboard

[245]
MULTI-HAZARD [2]

Key findings: The Australian Disaster Resilience Index is a snapshot of the capacities for disaster...

Linked Projects

Child-centred disaster risk reduction

[246]
COMMUNICATION AND WARNINGS [247]

Dr Briony Towers
RMIT University [248]



[248]

Effective risk and warning communication during natural hazards

[249]
COMMUNICATION AND WARNINGS [247]

Prof Vivienne Tippet
Queensland University of Technology [13]



[13]

Improving the role of hazard communications in increasing residents' preparedness and response planning

[250]
COMMUNICATION AND WARNINGS [247]

Dr Ilona McNeill
University of Melbourne [251]



[251]

Mapping and understanding bushfire and natural hazard vulnerability and risks at the institutional scale

[252]
ECONOMICS AND STRATEGIC DECISIONS [253]

Prof Roger Jones
Victoria University [254]

Improved decision support for natural hazard risk reduction [255]

ECONOMICS AND STRATEGIC DECISIONS [253]

Prof Holger Maier
University of Adelaide [256]



[256]

Northern Australian bushfire and natural hazard training [257]

UNDERSTANDING AND ENHANCING RESILIENCE [258]

Steve Sutton
Charles Darwin University [259]



[259]

Source URL:<https://www.bnhcrc.com.au/node/251/generate-pdf>

Links

[1] <https://www.bnhcrc.com.au/files/aerial-view-small-country-town.jpg> [2] <https://www.bnhcrc.com.au/research/topics/multi-hazard> [3] <https://www.bnhcrc.com.au/research/topics/resilience> [4] <https://www.bnhcrc.com.au/research/topics/vulnerability> [5] <https://www.bnhcrc.com.au/research/resilienceindex> [6] <https://www.bnhcrc.com.au/people/mparsons> [7] <https://www.bnhcrc.com.au/organisations/une> [8] <https://www.bnhcrc.com.au/people/gmarshal> [9] <https://www.bnhcrc.com.au/people/ireeve> [10] <https://www.bnhcrc.com.au/people/mcgregor> [11] <https://www.bnhcrc.com.au/people/mcneill> [12] <https://www.bnhcrc.com.au/people/phastings> [13] <https://www.bnhcrc.com.au/organisations/qut> [14] <https://www.bnhcrc.com.au/people/rstayner> [15] <https://www.bnhcrc.com.au/people/sglavac> [16] <https://www.bnhcrc.com.au/people/abradstreet> [17] <https://www.bnhcrc.com.au/organisations/nswrfs> [18] <https://www.bnhcrc.com.au/people/arichards> [19] <https://www.bnhcrc.com.au/organisations/nswses> [20] <https://www.bnhcrc.com.au/organisations/mfb> [41] <https://www.bnhcrc.com.au/people/clewis> [21] <https://www.bnhcrc.com.au/organisations/nswr> [22] <https://www.bnhcrc.com.au/people/cridge> [23] <https://www.bnhcrc.com.au/organisations/sestas> [24] <https://www.bnhcrc.com.au/people/hofster> [25] <https://www.bnhcrc.com.au/organisations/emv> [26] <https://www.bnhcrc.com.au/people/kenbom> [27] <https://www.bnhcrc.com.au/organisations/cfa> [28] <https://www.bnhcrc.com.au/people/nhogan> [29] <https://www.bnhcrc.com.au/people/pfletcher> [30] <https://www.bnhcrc.com.au/organisations/samfs> [31] <https://www.bnhcrc.com.au/people/sbarber> [32] <https://www.bnhcrc.com.au/organisations/tasfire> [33] <https://www.bnhcrc.com.au/people/sflint> [34] <https://www.bnhcrc.com.au/organisations/dfes> [35] <https://www.bnhcrc.com.au/people/stefanie-russell> [36] <https://www.bnhcrc.com.au/people/Stefanie-Russell> [37] <https://www.bnhcrc.com.au/people/tbeckett> [38] <https://www.bnhcrc.com.au/organisations/delwp> [39] <https://www.bnhcrc.com.au/people/tcurtin> [40] <https://www.bnhcrc.com.au/organisations/mfb> [41] <https://www.bnhcrc.com.au/people/tjarrett> [42] <https://www.bnhcrc.com.au/organisations/cqu> [43] <https://www.bnhcrc.com.au/resources/adri-reports> [44] <https://www.bnhcrc.com.au/news/2021/new-online-july-2021> [45] <https://www.bnhcrc.com.au/news/2021/new-online-may-2021> [46] <https://www.bnhcrc.com.au/news/2021/making-better-use-research> [47] <https://www.bnhcrc.com.au/news/blogpost/mparsons/2021/floodplains-arent-separate-to-rivers-theyre-extensions> [48] <https://www.bnhcrc.com.au/news/blogpost/nicklaus-mahony/2020/establishing-wider-view-impact> [49] <https://www.bnhcrc.com.au/news/2020/new-online-november-2020> [50] <https://www.bnhcrc.com.au/news/2020/latest-ajem-edition-features-crc-research-post-disaster-management> [51] <https://www.bnhcrc.com.au/news/2020-new-australian-disaster-resilience-index-tool-building-safer-adaptable-communities> [52] <https://www.bnhcrc.com.au/news/2020/resilience-research-central-blueprint> [53] <https://www.bnhcrc.com.au/news/2020/new-online-august-2020> [54] <https://www.bnhcrc.com.au/news/2020/new-measure-disaster-resilience-australian-communities> [55] <https://www.bnhcrc.com.au/news/2020/crc-launch-industry-first-disaster-resilience-website> [56] <https://www.bnhcrc.com.au/news/2020/science-galore-key-crc-event-dates> [57] <https://www.bnhcrc.com.au/news/2019/how-influence-people-research> [58] <https://www.bnhcrc.com.au/resilienceindex> [59] <https://www.bnhcrc.com.au/news/2018/research-increasing-preparedness> [60] <https://www.bnhcrc.com.au/news/2018/making-difference> [61] <https://www.bnhcrc.com.au/news/2018/enhancing-teamwork-and-research-utilisation> [62] <https://www.bnhcrc.com.au/news/2018/lessons-learnt-post-disaster> [63] <https://www.bnhcrc.com.au/node/4371> [64] <https://www.bnhcrc.com.au/news/2017/new-online-november-2017> [65] <https://www.bnhcrc.com.au/news/2017/briefing-enhance-policy> [66] <https://www.bnhcrc.com.au/news/2016/journal-publishes-important-research> [67] <https://www.bnhcrc.com.au/news/2016/new-online-september-2016> [68] <https://www.bnhcrc.com.au/news/2016/new-online-august-2016> [69] <https://www.bnhcrc.com.au/news/2016/new-online-march-2016> [70] <https://www.bnhcrc.com.au/news/blogpost/phil-morley/2015/cyclone-doesn-t-come-pay-day> [71] <https://www.bnhcrc.com.au/news/2015/top-end-resilience-discussed> [72] <https://www.bnhcrc.com.au/news/blogpost/tony-jarrett/2015/sendai-through-different-lens> [73] <https://www.bnhcrc.com.au/publications/biblio/bnh-8112> [74] <http://dx.doi.org/10.1016/j.jidrr.2021.102422> [75] [http://dx.doi.org/10.1016/j.jidrr.2021.102422](http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Disaster%2BResilience%2BIn%2BAustralia%3A%2BA%2Bgeographic%2Bassessment%2Busing%2Ban%2Bindex%2Bof%2Boping%2Band%2Badaptive%2Bcapacity%22&as_sautho) [75] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Disaster%2BResilience%2BIn%2BAustralia%3A%2BA%2Bgeographic%2Bassessment%2Busing%2Ban%2Bindex%2Bof%2Boping%2Band%2Badaptive%2Bcapacity%22&as_sautho [76] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/8112> [77] <https://www.bnhcrc.com.au/publications/biblio/export/xml/8112> [78] <https://www.bnhcrc.com.au/publications/biblio/bnh-7995> [79] <http://dx.doi.org/10.1080/02697459.2021.1919431> [80] [http://dx.doi.org/10.1080/02697459.2021.1919431](http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Local%2BGovernment%2BCapacity%2Band%2BLand%2BUse%2BPlanning%2Bfor%2BNatural%2BHazards%3A%2BA%2BComparative%2BEvaluation%2Bof%2BAustralian%2BLocal%2) [80] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Local%2BGovernment%2BCapacity%2Band%2BLand%2BUse%2BPlanning%2Bfor%2BNatural%2BHazards%3A%2BA%2BComparative%2BEvaluation%2Bof%2BAustralian%2BLocal%2 [81] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7995> [82] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7995> [83] <https://www.bnhcrc.com.au/publications/biblio/bnh-7102> [84] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B2%3A%2BIndicators%22&as_sauthors=Parsons&as_o [85] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7102> [86] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7102> [87] <https://www.bnhcrc.com.au/adri-summary> [88] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BDisaster%2BResilience%2BIndex%3A%2Ba%2Bsummary%22&as_sauthors=Parsons&as_occt=any&as_eqp=&as_oq=&as_eq=&as_r [89] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7138> [90] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7138> [91] <https://www.bnhcrc.com.au/publications/biblio/bnh-7101> [92] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B1%3A%2BDesign%2Bof%2Bthe%2BIndex%22&as_sa [93] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7101> [94] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7101> [95] <https://www.bnhcrc.com.au/publications/biblio/bnh-7106> [96] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B6%3A%2BUncertainty%2Band%2Bsensitivity%2Banalysis%2 [97] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7106> [98] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7106> [99] <https://www.bnhcrc.com.au/publications/biblio/bnh-7100> [100] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BIndex%2BDesign%2Band%2BComputation%22&as_sauthors=Pars [101] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7100> [102] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7100> [103] <https://www.bnhcrc.com.au/publications/biblio/bnh-7105> [104] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B5%3A%2BStatistical%2BOutputs%3A%2Bdisaster%2Bresili [105] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7105> [106] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7105> [107] <https://www.bnhcrc.com.au/publications/biblio/bnh-7099> [108] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BState%2Bof%2BDisaster%2BResilience%2BReport%22&as_sauthors=Parsons&as_o [109] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7099> [110] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7099> [111] <https://www.bnhcrc.com.au/publications/biblio/bnh-7104> [112] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B4%3A%2BStatistical%2BOutputs%3A%2BANDRI%2C%2Bc [113] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7104> [114] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7104> [115] <https://www.bnhcrc.com.au/publications/biblio/bnh-6988> [116] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22A%2Btypology%2Bof%2Bdisaster%2Bresilience%2Bin%2BAustralia%2B-%2Bannual%2Breport%2B2018-19%22&as_sauthors=Parsons&as_occt=any&as_eqp=&as_oq=&as_eq=&as_publication=&as_ylo=&as_yhi=&as_sdAAP=1&as_sdt=1 [117] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/6988> [118] <https://www.bnhcrc.com.au/publications/biblio/export/xml/6988> [119] <https://www.bnhcrc.com.au/publications/biblio/bnh-7103> [120] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BVVolume%2BI%2BE%280%93%2BChapter%2B3%3A%2BComputation%2Bof%2Bthe%2BAustralian%2BN [121] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7103> [122] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7103> [123] <https://www.bnhcrc.com.au/publications/biblio/bnh-7466> [124] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2Ba%2Bsystem%2Bfor%2Bassessing%2Bthe%2Bresilience%2Bof%2BAustralian%2Bcommunities%2Bio%2Bn [125] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/7466> [126] <https://www.bnhcrc.com.au/publications/biblio/export/xml/7466> [127] <https://www.bnhcrc.com.au/publications/biblio/?%5Bauthor%5D=1465> [128] <https://www.bnhcrc.com.au/publications/biblio/bnh-5096> [129] <http://dx.doi.org/10.1016/j.geomorph.2017.08.040> [130] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22From%2Bacademic%2Bio%2Bapplied%3A%2Boperationalising%2Bresilience%2Bin%2Bdriver%2Bsystems%22&as_sauthors=Parsons&as_occt=any&as_eqp=&as_oq= [131] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/5096> [132] <https://www.bnhcrc.com.au/publications/biblio/export/xml/5096> [133] <https://www.bnhcrc.com.au/publications/biblio/bnh-6308> [134] <http://dx.doi.org/10.1002/rra.3355> [135] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Extreme%2BFloods%2Band%2Briver%2Bvalues%3A%2BA%2Bsocial%2BE%280%93ecological%2Bperspective%22&as_sauthors=Parsons&as_occt=any&as_eqp=&as_o [136] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/6308> [137] <https://www.bnhcrc.com.au/publications/biblio/export/xml/6308> [138] <https://www.bnhcrc.com.au/people/michael-rumsewicz> [139] <https://www.bnhcrc.com.au/publications/researchproceedings2017> [140] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Research%2Bproceedings%2Bfrom%2Bthe%2B2017%2BBushfire%2Band%2BNatural%2BHazards%2BCRC%2Band%2BAFAC%2BConference%22&as_sauthors=Rumsewicz&as_o [141] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/3946> [142] <https://www.bnhcrc.com.au/publications/biblio/export/xml/3946> [143] <https://www.bnhcrc.com.au/publications/biblio/?%5Bauthor%5D=1190> [144] <https://www.bnhcrc.com.au/publications/biblio/bnh-3902> [145] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Cultural%2Bworldviews%2Band%2BNatural%2BHazard%2Brisks%2Bperception%3A%2BA%2BPilot%2Bstudy%2Bof%2BAustralian%2Badults%22&as_sauthors=Parsons&as_occt [146] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/3902> [147] <https://www.bnhcrc.com.au/publications/biblio/export/xml/3902> [148] <https://www.bnhcrc.com.au/publications/biblio/bnh-3901> [149] http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2Bassessing%2BAustralia%27s%2Bdisaster%2Bresilience%2Bat%2BA%2Bnational%2Bscale%22&as_sau [150] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/3901> [151] <https://www.bnhcrc.com.au/publications/biblio/export/xml/3901> [152] <https://www.bnhcrc.com.au/publications/biblio/bnh-4215> [153]

http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BAnnual%2Bproject%2Breport%2B2016-17%22&as_sauthors=Parsons&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1 [154]
<https://www.bnhcrc.com.au/publications/biblio/export/bibtex/4215> [155] <https://www.bnhcrc.com.au/publications/biblio/export/xml/4215> [156] <https://www.bnhcrc.com.au/publications/biblio/bnh-2849> [157] <http://dx.doi.org/10.1016/j.ijdr.2016.07.005> [158] [http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BAnnual%2Bproject%2Breport%2B2015-2016%22&as_sauthors=Parsons&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1](http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22Top-down%2Bassessment%2Bof%2Bdisaster%2Bresilience%3A%2BA%2Bconceptual%2Bframework%2Busing%2Bcoping%2Bband%2Badaptive%2Bcapacities%22&as_sauthors=Parsons&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1) [167]
<https://www.bnhcrc.com.au/publications/biblio/export/bibtex/2973> [168] <https://www.bnhcrc.com.au/publications/biblio/export/xml/2973> [169] <https://www.bnhcrc.com.au/publications/biblio/bnh-2585> [170]
http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BConceptual%2Bframework%2Band%2Bindicator%2Bapproach%22&as_sauthors=Parsons&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1 [171] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/2585> [172] <https://www.bnhcrc.com.au/publications/biblio/export/xml/2585> [173] <https://www.bnhcrc.com.au/people/pmorley> [174]
<https://www.bnhcrc.com.au/publications/biblio/bnh-1540> [175] [http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%3A%2BAnnual%2Bproject%2Breport%2B2014-2015%22&as_sauthors=Morley&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1](http://scholar.google.com/scholar?btnG=Search%2BScholar&as_q=%22The%2BAustralian%2BNatural%2BDisaster%2BResilience%2BIndex%2BAnnual%2Breport%2B2014%22&as_sauthors=Morley&as_occl=any&as_epq=&as_oq=&as_eq=&as_publication=&as_vlo=&as_yhi=&as_sdtAAP=1&as_sdtip=1) [180]
<https://www.bnhcrc.com.au/publications/biblio/export/bibtex/2345> [181] <https://www.bnhcrc.com.au/publications/biblio/export/xml/2345> [182] https://www.bnhcrc.com.au/node/251/generate-pdf?order=field_date_release&sort=asc [183] <https://www.bnhcrc.com.au/node/251/generate-pdf?order=title&sort=asc> [184] <https://www.bnhcrc.com.au/resources/presentation-slideshow/421> [185] <https://www.bnhcrc.com.au/file/498/download?token=YrVbJ0Ca> [186] <https://www.bnhcrc.com.au/research/topics/capability> [187] <https://www.bnhcrc.com.au/resources/presentation-slideshow/1287> [188] <https://www.bnhcrc.com.au/file/3774/download?token=LdAl3Cc> [189] <https://www.bnhcrc.com.au/research/topics/communities> [190] <https://www.bnhcrc.com.au/resources/presentation-audio-video/1409> [191] <https://www.bnhcrc.com.au/resources/presentation-slideshow/1701> [192] <https://www.bnhcrc.com.au/file/5170/download?token=KoCLsBeV> [193] <https://www.bnhcrc.com.au/resources/presentation-slideshow/2712> [194] <https://www.bnhcrc.com.au/file/6206/download?token=BgVKPjKk> [195] <https://www.bnhcrc.com.au/hazardnotes/17> [196] https://www.bnhcrc.com.au/file/6253/download?token=gNa5VT_y [197] <https://www.bnhcrc.com.au/research/topics/indigenous-communities> [198] <https://www.bnhcrc.com.au/resources/presentation-slideshow/3508> [199] <https://www.bnhcrc.com.au/file/7326/download?token=iZkG8Xhl> [200] <https://www.bnhcrc.com.au/resources/presentation-slideshow/3767> [201] <https://www.bnhcrc.com.au/file/7580/download?token=2oYZeoEz> [202] <https://www.bnhcrc.com.au/resources/presentation-slideshow/3964> [203] <https://www.bnhcrc.com.au/file/7820/download?token=Exsl49Y> [204] <https://www.bnhcrc.com.au/resources/presentation-slideshow/3965> [205] <https://www.bnhcrc.com.au/file/7821/download?token=L-E17sr> [206] <https://www.bnhcrc.com.au/hazardnotes/39> [207] <https://www.bnhcrc.com.au/file/7867/download?token=53Gq9u3C> [208] <https://www.bnhcrc.com.au/research/topics/policy> [209] <https://www.bnhcrc.com.au/resources/presentation-slideshow/4539> [210] <https://www.bnhcrc.com.au/file/8200/download?token=YCniZxsn> [211] <https://www.bnhcrc.com.au/research/topics/mitigation> [212] <https://www.bnhcrc.com.au/resources/fireaustralia-edition/4608> [213] <https://www.bnhcrc.com.au/file/8291/download?token=KIBXzVEW> [214] <https://www.bnhcrc.com.au/research/topics/decision-making> [215] <https://www.bnhcrc.com.au/research/topics/emergency-management> [216] <https://www.bnhcrc.com.au/resources/presentation-slideshow/5643> [217] <https://www.bnhcrc.com.au/file/10047/download?token=LJK8ld4t> [218] <https://www.bnhcrc.com.au/resources/presentation-slideshow/5705> [219] <https://www.bnhcrc.com.au/file/10141/download?token=oXIS1rG5> [220] <https://www.bnhcrc.com.au/research/topics/economics> [221] <https://www.bnhcrc.com.au/research/topics/planning> [222] <https://www.bnhcrc.com.au/resources/presentation-audio-video/7065> [223] <https://www.bnhcrc.com.au/file/11529/download?token=piRLqZ7y> [224] <https://www.bnhcrc.com.au/research/topics/preparedness> [225] <https://www.bnhcrc.com.au/resources/presentation-audio-video/7139> [226] <https://www.bnhcrc.com.au/file/11581/download?token=piRLqZ7y> [227] <https://www.bnhcrc.com.au/resources/presentation-audio-video/7140> [228] <https://www.bnhcrc.com.au/file/11583/download?token=BhoLd5Rf> [229] <https://www.bnhcrc.com.au/resources/presentation-audio-video/7141> [230] <https://www.bnhcrc.com.au/file/11585/download?token=zzc76fA2> [231] <https://www.bnhcrc.com.au/adri-video-tour> [232] <https://www.bnhcrc.com.au/file/11588/download?token=ORhHws-N> [233] <https://www.bnhcrc.com.au/adri-launch> [234] <https://www.bnhcrc.com.au/file/11597/download?token=OUjndcXF> [235] <https://www.bnhcrc.com.au/resources/external-resource/7167> [236] <https://www.bnhcrc.com.au/casestudy/reliefandrecovery> [237] <https://www.bnhcrc.com.au/resources/poster/1205> [238] <https://www.bnhcrc.com.au/resources/poster/2035> [239] <https://www.bnhcrc.com.au/resources/poster/2867> [240] <https://www.bnhcrc.com.au/research/topics/infrastructure> [241] <https://www.bnhcrc.com.au/resources/poster/3737> [242] <https://www.bnhcrc.com.au/resources/poster/4854> [243] <https://www.bnhcrc.com.au/resources/poster/4884> [244] <https://www.bnhcrc.com.au/resources/poster/5866> [245] <https://www.bnhcrc.com.au/resources/poster/7757> [246] <https://www.bnhcrc.com.au/research/childcentredriskreduction> [247] <https://www.bnhcrc.com.au/research/cluster/communications-warnings> [248] <https://www.bnhcrc.com.au/organisations/rmit> [249] <https://www.bnhcrc.com.au/research/riskcommunication> [250] <https://www.bnhcrc.com.au/research/residentpreparedness> [251] <https://www.bnhcrc.com.au/organisations/umelb> [252] <https://www.bnhcrc.com.au/research/vulnerabilityandrisk> [253] <https://www.bnhcrc.com.au/research/cluster/economics-decision-making> [254] <https://www.bnhcrc.com.au/organisations/vu> [255] <https://www.bnhcrc.com.au/research/riskreduction> [256] <https://www.bnhcrc.com.au/organisations/ua> [257] <https://www.bnhcrc.com.au/research/hazardtraining> [258] <https://www.bnhcrc.com.au/research/cluster/understanding-enhancing-resilience> [259] <https://www.bnhcrc.com.au/organisations/gdu>