

Student project

Key Topics:

- policy [1]


How risk informs natural hazard management: a study of the interface between risk modelling for tsunami inundation and local government policy and procedure [2]

This project is researching the interface between risk and emergency management to understand how risk informs government, emergency management, policies and procedures. It is using tsunami risk scenarios originating from an earthquake along the length of the Hikurangi Subduction (off New Zealand's North Island) to research the way risk is understood, communicated, believed, and used, as well as what existing factors limit tsunami risk awareness and understanding.


Research team

Student researcher

[3]



Miles Crawford
[3]
RESEARCH LEADER


MANGERE UNIVERSITY OF TECHNOLOGY
TE Kōwhiri o Te Kaitiaki
UNIVERSITY OF NEW ZEALAND

[4]

Full description

This project is researching the interface between risk and emergency management to understand how risk informs government emergency management policies and procedures. It is using tsunami risk scenarios originating from an earthquake along the length of the Hikurangi Subduction (off New Zealand's North Island) to research the way risk is understood, communicated, believed, and used, as well as what existing factors limit tsunami risk awareness and understanding.

Watch Miles draw on how his research can inform public policy to protect the population from tsunami's.

Related News



18 SEP 2018

Conference papers available online
EMERGENCY MANAGEMENT, MULTI-HAZARD

[5]



21 MAY 2018

New online - May 2018

[6]



19 APR 2018

Helping emergency managers, urban planning and mitigating tsunami risk project updates
CAPABILITY, PLANNING

[7]

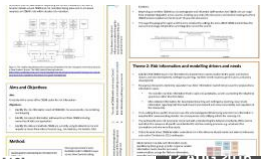
Publications

Year	Type	Citation
2018	Conference Paper	Crawford, M. [3] Risk modelling as a tool to support local government emergency management [8]. <i>AFAC18</i> (Bushfire and Natural Hazards CRC, 2018). Google Scholar [9] BibTeX [10] EndNote [11]
2018	Conference Paper	Bates, J. [12] Research proceedings from the 2018 Bushfire and Natural Hazards CRC and AFAC Conference [13]. <i>Bushfire and Natural Hazards CRC & AFAC annual conference 2017</i> (Bushfire and Natural Hazards CRC, 2017). Google Scholar [14] BibTeX [15] EndNote [16]
2018	Journal Article	Crawford, M. [3], Johnston, D. [17], Crowley, K. [18], Saunders, W. S. A. [19] & Potter, S. H. [20] Risk modelling as a tool to support natural hazard risk management in New Zealand local government [21]. <i>Natural Hazards and Earth System Sciences</i> [22]. Google Scholar [23] BibTeX [24] EndNote [25]
2017	Conference Paper	Crawford, M. [3] How risk informs natural hazard management: a study of the interface between risk modelling and local government policies and procedures [26]. <i>AFAC17</i> (Bushfire and Natural Hazards CRC, 2017). Google Scholar [27] BibTeX [28] EndNote [29]
2017	Conference Paper	Rumsewicz, M. [30] Research proceedings from the 2017 Bushfire and Natural Hazards CRC and AFAC Conference [31]. <i>Bushfire and Natural Hazards CRC & AFAC annual conference 2017</i> (Bushfire and Natural Hazards CRC, 2017). Google Scholar [32] BibTeX [33] EndNote [34]

Resources

DATE	[35]	TITLE	[36]	DOWNLOAD	KEY TOPICS
07 Sep 2017		How risk informs natural hazard management: a study of the interface between risk modelling and local government policies and procedures	[37]	610.96 KB	[38] (610.96 KB) [39]
10 Apr 2018		How tsunami risk informs natural hazard management	[41]	0 bytes	[42] (0 bytes) [43]
18 Sep 2018		Risk modelling as a tool to support local government emergency management	[45]	1.5 MB	[46] (1.5 MB) [47]

Posters



12 AUG 2018

Understanding the risk information needs for New Zealand's CDEM sector

[48]

INFRASTRUCTURE [49], RESILIENCE [50]

This project aims to research the interface between risk and emergency management to understand how risk...



29 JUN 2017

Risk modelling as a tool to support natural hazard risk management in New Zealand local government

[51]

COMMUNICATION [52], RISK MANAGEMENT [44]

Demand for natural hazard risk modelling has significantly increased over the last few decades as we seek to...

Challenges and solutions for natural hazard risk-based policy development in New Zealand interrelate within a...

Linked Projects

Community understanding of the tsunami risk and warnings systems in Australian communities [54]

COMMUNICATION AND WARNINGS [55]

Prof David Johnston
Massey University, New Zealand[4]



[4]

Source URL: <https://www.bnhcrc.com.au/node/1672/generate-pdf>

Links

<https://www.bnhcrc.com.au/research/topics/policy> [2] <https://www.bnhcrc.com.au/research/resilience-hazards/1672> [3] <https://www.bnhcrc.com.au/people/mcrawford> [4] <https://www.bnhcrc.com.au/organisations/massey> [5] <https://www.bnhcrc.com.au/news/2018/conference-papers-available-online> [6] <https://www.bnhcrc.com.au/news/2018/new-online-may-2018> [7] <https://www.bnhcrc.com.au/news/2018/helping-emergency-managers-urban-planning-and-mitigating-tsunami-risk-project-updates> [8] <https://www.bnhcrc.com.au/publications/biblio/bnh-4772> [9] http://scholar.google.com/scholar?hl=en&search=2Bscholar&as_q=%22Research%2Bmodelling%2Ba%2Btool%2Bto%2Bsupport%2Blocal%2Bgovernment%2Bemergency%2Bmanagement%22&as_sauthors=Crawford&as_occt=and&as_eqp=10 [10] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/4772> [11] <https://www.bnhcrc.com.au/publications/biblio/export/xml/4772> [12] <https://www.bnhcrc.com.au/people/john-bates> [13] <https://www.bnhcrc.com.au/publications/researchproceedings2018> [14] http://scholar.google.com/scholar?hl=en&search=2Bscholar&as_q=%22Research%2Bproceedings%2Bfrom%2Bthe%2B2018%2BBushfire%2Band%2BNatural%2BHazards%2BCRC%2Band%2BAFAC%2BConference%22&as_sauthors=Bates&as_o [15] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/4739> [16] <https://www.bnhcrc.com.au/publications/biblio/export/xml/4739> [17] <https://www.bnhcrc.com.au/people/djohnston> [18] <https://www.bnhcrc.com.au/publications/biblio/7f5BAuthor%5D=1288> [19] <https://www.bnhcrc.com.au/publications/biblio/7f5BAuthor%5D=1287> [20] <https://www.bnhcrc.com.au/publications/biblio/7f5BAuthor%5D=1288> [21] <https://www.bnhcrc.com.au/publications/biblio/bnh-4556> [22] <http://dx.doi.org/10.1016/j.ijdr.2018.01.011> [23] http://scholar.google.com/scholar?hl=en&search=2Bscholar&as_q=%22Research%2Bmodelling%2Ba%2Btool%2Bto%2Bsupport%2BNatural%2BHazard%2Brisk%2Bmanagement%2Bin%2BNew%2BZealand%2Blocal%2Bgovernment%22&as_sauthors=24 [24] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/4556> [25] <https://www.bnhcrc.com.au/publications/biblio/export/xml/4556> [26] <https://www.bnhcrc.com.au/publications/biblio/bnh-3888> [27] http://scholar.google.com/scholar?hl=en&search=2Bscholar&as_q=%22How%2Brisk%2Binforms%2BNatural%2BHazard%2Bmanagement%3A%2Ba%2Bstudy%2Bof%2Bthe%2Binterface%2Bbetween%2Brisk%2Bmodelling%2Band%2Blocal%2Bgovernment%22 [28] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/3888> [29] <https://www.bnhcrc.com.au/publications/biblio/export/xml/3888> [30] <https://www.bnhcrc.com.au/people/michael-rumsewicz> [31] <https://www.bnhcrc.com.au/publications/researchproceedings2017> [32] http://scholar.google.com/scholar?hl=en&search=2Bscholar&as_q=%22Research%2Bproceedings%2Bfrom%2Bthe%2B2017%2BBushfire%2Band%2BNatural%2BHazards%2BCRC%2Band%2BAFAC%2BConference%22&as_sauthors=Rumsewicz&as_o [33] <https://www.bnhcrc.com.au/publications/biblio/export/bibtex/3946> [34] <https://www.bnhcrc.com.au/publications/biblio/export/xml/3946> [35] https://www.bnhcrc.com.au/node/1672/generate-pdf?order-field_date_release&sort=asc [36] <https://www.bnhcrc.com.au/node/1672/generate-pdf?order=title&sort=asc> [37] <https://www.bnhcrc.com.au/resources/presentation-slideshow/3975> [38] <https://www.bnhcrc.com.au/file/7831/download?token=lfFsJa> [39] <https://www.bnhcrc.com.au/research/topics/modelling> [40] <https://www.bnhcrc.com.au/research/topics/sunami> [41] <https://www.bnhcrc.com.au/resources/presentation-audio-video/4513> [42] <https://www.bnhcrc.com.au/file/8175/download?token=86rLQbNn> [43] <https://www.bnhcrc.com.au/research/topics/planning> [44] <https://www.bnhcrc.com.au/research/topics/risk-management> [45] <https://www.bnhcrc.com.au/resources/presentation-slideshow/4862> [46] <https://www.bnhcrc.com.au/file/8795/download?token=7wnZ6Bn> [47] <https://www.bnhcrc.com.au/research/topics/risk-analysis> [48] <https://www.bnhcrc.com.au/resources/poster/2839> [49] <https://www.bnhcrc.com.au/research/topics/infrastructure> [50] <https://www.bnhcrc.com.au/research/topics/resilience> [51] <https://www.bnhcrc.com.au/resources/poster/3702> [52] <https://www.bnhcrc.com.au/research/topics/communication> [53] <https://www.bnhcrc.com.au/resources/poster/4850> [54] <https://www.bnhcrc.com.au/research/TSunamiriskandwarnings> [55] <https://www.bnhcrc.com.au/research/cluster/communications-warnings>