

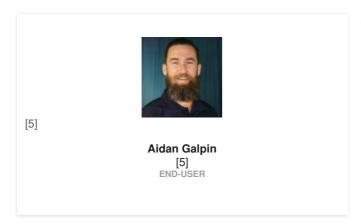
Department of Environment and Water, South Australia [1] HTTP://WWW.ENVIRONMENT.SA.GOV.AU/HOME [2]

The Department of Environment and Water provides advice to government, industry and communities to achieve productive and balanced use of natural resources and to help improve the condition and resilience of our natural systems. The issues it works on include water security, climate change, sustainable land management, public estate management and biodiversity conservation.

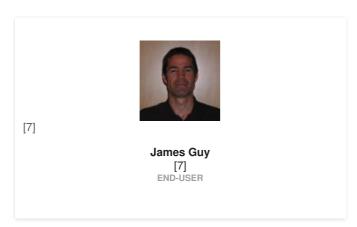
## Our people



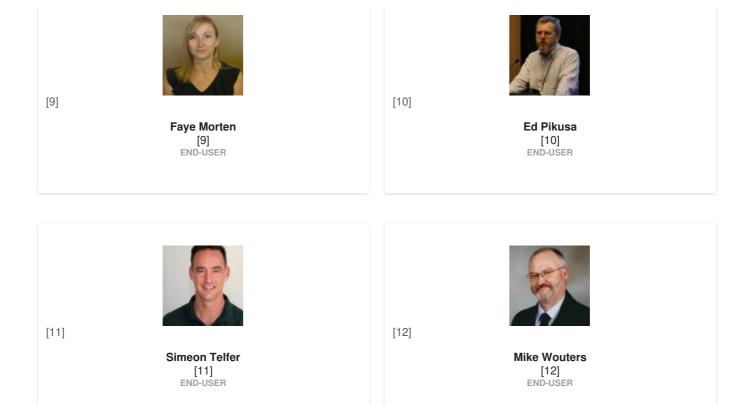












# End user representation

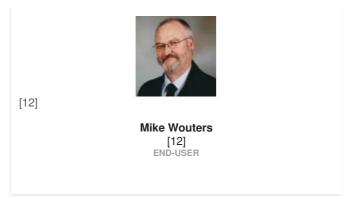
Hazards, culture and Indigenous communities [13]



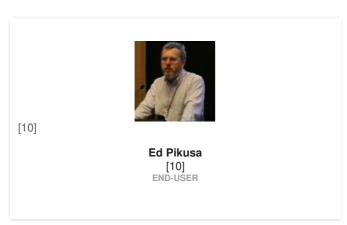
### Urban planning for natural hazard mitigation [14]

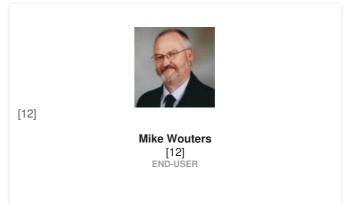


Economics of natural hazards [15]

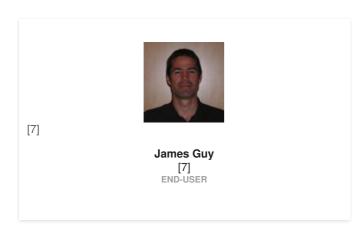








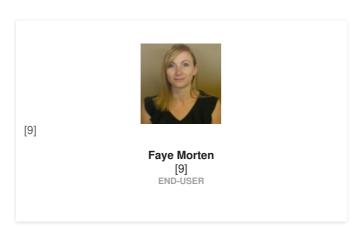
#### on the coast - storm surge [16]



# Developing better predictions for extreme water levels [17]



### Diversity and inclusion: building strength and capability [18]

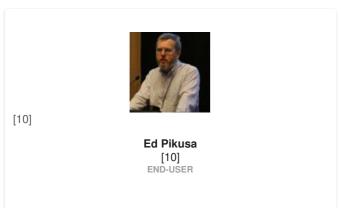


Using realistic disaster scenario analysis to understand natural hazard impacts and emergency management requirements [19]



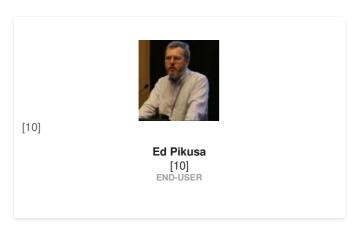
Ed Pikusa [10] END-USER

### hazard risk reduction [20]

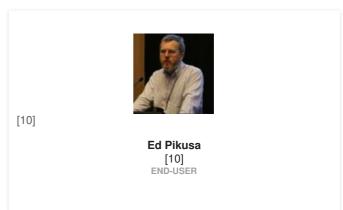




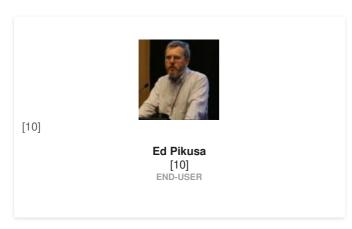
#### Policies, institutions and governance [21]



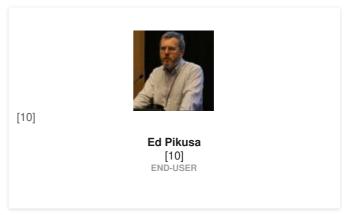
Catastrophic and cascading events: planning and capability [22]



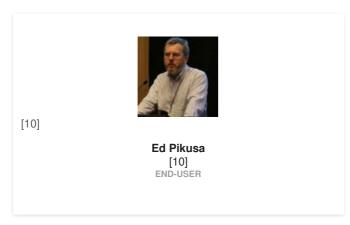
Scientific diversity and uncertainty in risk mitigation policy and planning [23]



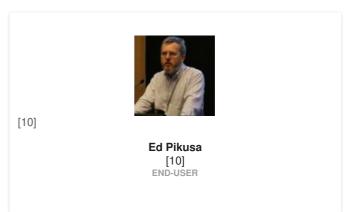
Improved calibration of spatially distributed models to simulate disaster risk [24]



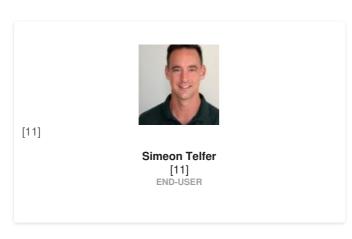
Optimising post-disaster recovery interventions in Australia [25]



Mapping and understanding bushfire and natural hazard vulnerability and risks at the institutional scale [26]



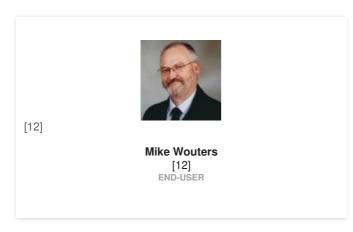
#### Mapping bushfire hazard and impacts [27]



Fire surveillance and hazard mapping [28]



#### Threshold conditions for extreme fire behaviour [29]



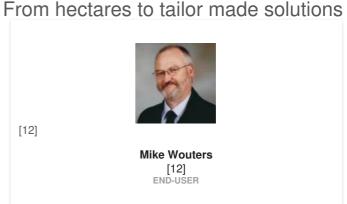
Fire spread prediction across fuel types [30]



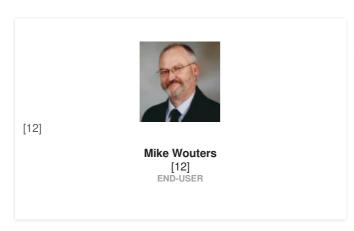
Preparing emergency services for operations in a climate-challenged world [31]

Improving decision-making in complex





#### for risk mitigation [33]



# Black Summer bushfires: South Australia reconstructions [34]



#### Coupled fire-atmosphere modelling [35]



# Modelling fire weather interactions using the ACCESS-Fire model [36]



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