



# A Natural Hazards Atlas for Tasmania

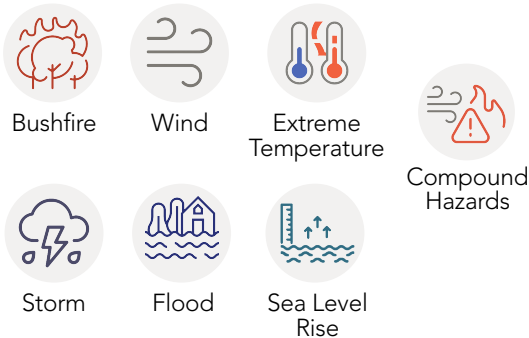
## Mapping natural hazards to build disaster resilience and preparedness

**Newsletter**  
Dec 2025

### About the Natural Hazards Atlas project

The University of Tasmania's Climate Futures Research Group is developing the Natural Hazards Atlas for Tasmania (NHAT) — a publicly accessible, web-based platform designed to provide detailed, locally relevant information on natural hazards and climate change. The project is funded by the National Emergency Management Agency's Disaster Ready Fund, and aims to support risk assessment and planning, emergency preparedness, and resilience-building across Tasmania.

#### Natural hazards included in the Atlas



### Development of the NHAT web platform

The NHAT team is excited to announce that we have started to work with web developers, Condense, on the construction of the NHAT web platform. An award-winning Hobart based software consultancy, Condense are experienced in delivering data-driven web assets, and have delivered several successful websites in partnership with UTAS researchers previously. Their expertise is a strong fit for the technical and design needs of the NHAT platform. The design, build, testing of the NHAT website will continue through 2026, with rollout of the platform expected at the end of the year.

### Stakeholder needs analysis completed

During the first half of 2025, the NHAT team undertook extensive analysis of all the data collected through our stakeholder engagement towards the end of 2024. The stakeholder survey, interview and workshop outputs were analysed in-depth, providing the NHAT team a clear understanding of needs across sectors. This is now being fed into the technical stage of the Natural Hazards Atlas, allowing the team to prioritise preferred hazard measures across sectors. The needs analysis process has also fed into the production of a Summary Report, led by Dr Anna Lyth and Dr Agustina Barros, released at the time of this newsletter, which is available to all NHAT stakeholders. The report summarises end-user co-production of the project to date, and provides a blueprint that will shape the next stage of NHAT: the design of technical outputs, communication materials, and the web platform build. The NHAT team encourages all those that took part in this process to read the report, share it widely, and to direct any questions or suggestions back to the project team by sending an email to [natural.hazards.atlas@utas.edu.au](mailto:natural.hazards.atlas@utas.edu.au).

### Update on hazards modelling and analysis

Our natural hazards modellers and analysts, including Dr Peter Love, Dr Annabel Bowden, Dr Krishneel Sharma, and Dr Ben Weeding, are preparing and evaluating the available data at the heart of NHAT. Work began with a review of existing meteorological and hazards datasets for Tasmania and the scientific methods used to assess natural hazards. The team is now applying these methods to both historical datasets and climate model outputs to form a picture of how hazards are changing in our state, with rainfall, winds, storms, and extreme temperatures the current focus. This entails a wide range of analyses, including looking for spatial patterns and temporal trends, measuring climate model ensemble agreement, and calculating the changing probabilities of extreme events. Following the feedback from the stakeholder needs analysis, the team is producing summaries, maps and timeseries of their results.



## NHAT Committee meetings

The NHAT Steering Committee provides advice to the NHAT project team. In 2025, the Natural Hazards Atlas Steering Committee convened in March, July, and November. The March meeting focused on reviewing preliminary findings from the stakeholder needs consultation, exploring opportunities to ensure the Atlas meets end user needs, and discussing strategies to enhance stakeholder engagement, co-design and prioritisation of outputs.

During the July and November meetings, the committee assessed progress across all project components. Notable highlights included valuable discussions on prioritising accessible, high-value public resources, identifying alignment opportunities with Tasmania State Emergency Service flood mapping and other relevant platforms and reviewing preliminary hazard modelling results for Tasmania alongside options for data visualisation. Looking ahead, the committee has planned a collaborative workshop for 2026 to further explore strategies that will support the uptake and promotion of the Atlas.

The NHAT Steering Committee comprises representatives from *Renewables, Climate and Future Industries Tasmania, Department of Premier and Cabinet, Department of Natural Resources and Environment Tasmania, Hydro Tasmania, Tasmania State Emergency Service, and Tasmanian Department of Health.*

## NHAT on the national and global stage

Members of the Climate Futures NHAT team have made presentations about the project in Tasmania, nationally and internationally during 2025. Dr Kathleen Beyer presented NHAT to the Local Government Association of Tasmania's Climate Change Forum in March. Several team members delivered presentations about climate-driven weather extremes at the Australian Meteorological and Oceanographic Society Conference in Cairns in June. In September, Dr Gabi Mocatta, who was a visiting Fulbright Fellow in the US, presented NHAT at the University of Massachusetts, Amherst. NHAT has also been in the media with Dr Ben Weeding discussing the project on ABC Radio's show Science Club.

## Climate Futures for Tasmania 2.0

Climate Futures has been awarded a \$1.8 million grant by the Tasmanian Government to deliver new fine-scale climate projections for the state. Led by Dr Kathleen Beyer, the team will produce high-resolution (4 km) projections using the Coupled Model Intercomparison Project Phase 6 (CMIP6) global models and dynamic downscaling with the Conformal Cubic Atmospheric Model (CCAM), tailored to Tasmania's unique landscapes and ocean influences.

Building on the 2010 Climate Futures 1.0 project, this update uses the latest modelling and computing advances. The new projections will be integrated into the Natural Hazards Atlas and TheList, making new climate data and information accessible to support risk assessment and adaptation planning statewide.



## Project Lead

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