Title	NSW post-fire debris flow susceptibility map
Abstract	Debris flows are extremely damaging and dangerous post-fire hazards that can cause significant short- and long-term impacts to rivers and aquatic ecosystems, water quality, and infrastructure. However, they are relatively poorly documented in NSW. High-resolution aerial imagery highlights significant debris flow activity in parts of NSW severely impacted by the 2019/20 Black Summer bushfires, specifically the Tuross, Tumut and Lake Burragorang catchments which were mapped in detail. This inventory of debris flow occurrences was used to train and validate a predictive logistic regression model using key predictor variables slope, fire severity, aridity, geology and soil erodibility. The model outputs can inform assessments of future potential hazards to threatened aquatic species, remote infrastructure such as roads and properties, and drinking water reservoirs and associated infrastructure. For more information, please read the accompanying report, 'Post-fire debris flows in NSW: Susceptibility modelling and implications for management', or check out this
	link: https://www.environment.nsw.gov.au/topics/water/estuaries/estuaries- research/bushfire-affected-waterways
Resource locato	r
Data Quality	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for NSW Post-fire Debris flow susceptibility map
	Function: download
NSW Debris flow	Name: NSW Debris flow probability-Logistic regression model output (classified)
<u>probability-</u> Logistic	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Logistic</u> regression model <u>output</u> (classified)	Description:
	The logistic regression model's final output values underwent classification into three distinct classes. The classification cut-off ranges were defined as follows: Values ranging from Zero to 48% were classified as 1 (Zero/Low probability), 48% to 72% were assigned as 2 (Moderate probability), and 72% to 100% were identified as 3 (High probability). To gain a clearer understanding of how the cut-offs were defined, refer to the accompanying report, 'Post-fire debris flows in NSW: Susceptibility modelling and implications for management'. The report will be available soon.
	Function: download
ArcGIS REST	Name: ArcGIS REST Service: NSW Debris flow probability
Service: NSW Debris flow probability	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	An ArcGIS Server web service represents a GIS resource such as a map, locator, or image that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap.
	Function: download
Post-fire debris flows in NSW South Wales - Susceptibility modelling and implications for management	Name: Post-fire debris flows in NSW South Wales - Susceptibility modelling and implications for management
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	The purpose of the report is to outline the methods used in developing and validating the model, while also discussing the implications of the susceptibility map for land and water management.
	Function: download
WMS Service	Name: WMS Service

	Protocol: www.DOWNLOAD-1.0-httpdownload	
	Description:	
	WMS Service	
	Function: download	
Unique resource identifier		
Code	21c9fb08-e8db-4f51-98e8-054860b298f0	
Presentation form	Map digital	
Edition	1	
Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	https://www.planningportal.nsw.gov.au/opendata/dataset/21c9fb08-e8db-4f51-98e8- 054860b298f0	
Purpose	Post-fire management planning	
Status	Completed	
Spatial representation type	grid	
Spatial reference	e system	
Code identifying the spatial reference system	4283	
Spatial resolution	5 m	
Additional information source	Debris flow mapping within study areas (Tuross, Tumut, and Burragorang) for training models relied on satellite imageries dated subsequent to the 2019-2020 NSW bushfire. High-resolution (~7 cm) NearMap acquisitions of aerial imagery across a broad swathe of lower Tuross catchment (12/03/2020 and 23/01/2021) and Lake Burragorang region (17/01/2021) allowed mapping of discrete post-fire debris flows. This inventory of known debris flow occurrences, supplemented by debris flow mapping undertaken by the Natural Resources Commission (NRC) - NSW Government (2023) in upper Tuross catchment (17/01/2022 - 14/02/2022) and in the Tumut catchment (03/01/2021 - 09/10/2021).	
Topic category	environment	

keyword value	HAZARDS-Fire			
	SOIL-Erosion			
	WATER-Quality			
Originating controlled vocabulary				
Title	ANZLIC Search Words			
Reference date	2008-05-16			
Geographic location				
Vertical extent information				
Minimum value	-100			
Maximum value	2228			
Coordinate reference system				
Authority code	urn:ogc:def:cs:EPSG::			
Code identifying the coordinate reference system	5711			
Temporal extent				
Begin position	2021-01-03			
	N/A			
Dataset reference date				
Dataset reference date Resource maintenance				
Dataset reference date Resource maintenance Maintenance and update frequency	As needed			
Dataset reference date Resource maintenance Maintenance and update frequency Contact info	As needed			
Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position	As needed Data Broker			
Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name	As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address	As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address	As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia			
Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address	As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia data.broker@environment.nsw.gov.au			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address Telephone number	As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia data.broker@environment.nsw.gov.au 131555			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address Telephone number Email address	As needed Data Broker Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia data.broker@environment.nsw.gov.au 131555 data.broker@environment.nsw.gov.au			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address Telephone number Email address Web address	As needed Data Broker Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia data.broker@environment.nsw.gov.au 131555 data.broker@environment.nsw.gov.au https://www.nsw.gov.au/departments-and-agencies/dcceew			
End position Dataset reference date Resource maintenance Maintenance and update frequency Contact info Contact position Organisation name Full postal address Full postal address Web address Responsible party role	As needed As needed Data Broker NSW Department of Climate Change, Energy, the Environment and Water NSW Australia data.broker@environment.nsw.gov.au 131555 data.broker@environment.nsw.gov.au https://www.nsw.gov.au/departments-and-agencies/dcceew pointOfContact			

Constraint set

Use constraints

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Limitations on public access

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Responsible party role	pointOfContact

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Responsible party role	pointOfContact
Metadata date	2024-06-27T04:19:25.654881
Metadata language	