Title	Fire Extent and Severity Mapping (FESM) 2017/18	
Alternative title(s)	FESMv3	
Abstract	Fire severity is a metric of the loss of biomass caused by fire. In collaboration with the NSW Rural Fire Service, DPE Remote Sensing & Regulatory Mapping team has developed a semi-automated approach to mapping fire extent and severity through a machine learning framework based on sentinel 2 satellite imagery. The statewide severity map has standardised classes to allow comparison of different fires across the landscape. The FESM severity classes include: unburnt, low severity (burnt understory, unburnt canopy), moderate severity (partial canopy scorch), high severity (complete canopy scorch, partial canopy consumption), extreme (full canopy consumption).	
	This dataset represents the 2017/18 fire year, including wildfires $>$ 100ha with fire start date between July 2017 and June 2018.	
Resource locat	or	
Show on SEED Web Map	Name: Show on SEED Web Map	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Display dataset on SEED's map	
	Function: download	
<u>Data Quality</u> <u>Statement</u>	Name: Data Quality Statement	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Data quality statement for Fire Extent and Severity Mapping (FESM) 2017/18	
	Function: download	
<u>Data Download</u>	Name: Data Download Package	
Package	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	FESM - data in ESRI GRID format + ESRI Layer file	
	Function: download	
<u>Data Download</u> <u>Package</u>	Name: Data Download Package	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	FESM - data in IMG and TIFF format	
	Function: download	
NSW Fire Extent and Severity Mapping (FESMv3) Factsheet	Name: NSW Fire Extent and Severity Mapping (FESMv3) Factsheet	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Metadata and method factsheet	
	Function: download	
ArcGIS REST Service	Name: ArcGIS REST Service	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	An ArcGIS Server web service represents a GIS resource—such as a map, locator, or	

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

Unique resource	identifier
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Code 6ff6aedc-5131-4667-ac34-e9d9aa8aeb99

Presentation form

Map digital

Edition FESMv3

Dataset language

English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI https://datasets.seed.nsw.gov.au/dataset/6ff6aedc-5131-4667-ac34-e9d9aa8aeb99

Purpose Bushfire response planning and analysis by land and environmental managers

Status Completed

Spatial

representation

type

grid

Spatial reference system

Code identifying

the spatial

reference system

4283

Spatial resolution

10 m

Topic category

Keyword set				
keyword value	HAZARDS-Fire			
	ECOLOGY-Ecosystem			
	ECOLOGY-Habitat			
	VEGETATION			
Originating controlled vocabulary				
Title	ANZLIC Search Words			
Reference date	2008-05-16			
Geographic location				
West bounding longitude	140.27344			
East bounding longitude	155.08301			
North bounding latitude	-36.35477			
South bounding latitude	-27.99906			
NSW Place Name	NSW			
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	2019-01-01			
End position	N/A			
Dataset reference date				
Resource maintenance				
Maintenance and update frequency	Not planned			
Contact info				
Contact position	Data Broker			
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water			
Telephone number	131555			
Email address	data.broker@environment.nsw.gov.au			
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew			
Responsible party role	pointOfContact			

Lineage

Layer was developed with a semi-automated approach to mapping fire extent and severity through a machine learning framework based on sentinel 2 satellite imagery. The severity maps have standardised classes to allow comparison of different fires across the landscape.

Originally the layer was produced as an Lamberts Conic Conformal projection IMG TIFF file (but converted to a 10m Esri GRID in in line with internal EES spatial convention for storage on P and SDE).

Limitations on public access

Responsible party

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata point of contact

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Responsible party role pointOfContact

Metadata date 2024-02-26T15:40:55.403370

Metadata language