Title	Historical Fire Extent and Severity Mapping (FESM) - Pilliga Region
Alternative title(s)	FESM - Blue Mtns
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 satellite imagery.
	The method uses 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).
	Here we provide historical severity mapping for the Pilliga region from 1989/90 to 2015/16, which is based on Landsat satellite imagery. From 2016/17 to the current fire year, this region is covered in the statewide FESM data, which is based on Sentinel 2 satellite imagery.

Resource locator

Data Quality Statement	Name: Data Quality Statement
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data quality statement for Historical Fire Extent and Severity Mapping (FESM) - Blue Mountains Region
	Function: download
Historical FESM - Pilliga Region - Wildfire - 1989-90 to 2015-16	Name: Historical FESM - Pilliga Region - Wildfire - 1989-90 to 2015-16
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Historical FESM mapping for the Pilliga region of wildfires from 1989-90 to 2015-16. See the FESM statewide dataset for coverage of this region from 2016-17 onwards.
	Function: download
Historical FESM - Pilliga Region - Hazard Reductions - 1989-90 to 2015-16	Name: Historical FESM - Pilliga Region - Hazard Reductions - 1989-90 to 2015-16
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Historical FESM mapping for the Pilliga region of hazard reduction burns from 1989-90 to 2015-16.
	Function: download
Pilliga Area of Interest shapefile	Name: Pilliga Area of Interest shapefile
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Shapefile for the Pilliga area of interest
	Function: download
FESM method publication	Name: FESM method publication
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Remote Sensing of Environment Journal Article titled 'A remote sensing approach to mapping fire severity in south-eastern Australia using sentinel 2 and random forest' published in April 2020.

	Function: download
	Name: FESM method publication - comparison of satellites
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Remote Sensing Journal Article title 'Comparing Fire Extent and Severity Mapping between Sentinel 2 and Landsat 8 Satellite Sensors'
	Function: download

Unique resource identifier

Code	0ec3bccc-d5f8-4bf0-8e5b-5b52e0aae0c0

Presentation form	Image digital

Edition	FESMv3

Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/0ec3bccc-d5f8-4bf0-8e5b-5b52e0aae0c0

Purpose	fire management planning and reporting, landscape and fire ecology research

Status	Completed

Spatial representation type	grid

Spatial reference system

Code identifying the spatial reference system	4283

Spatial resolution	30 m

Topic category

Keyword set

keyword value	HAZARDS-Fire
	ECOLOGY-Landscape
	ECOLOGY-Habitat
	VEGETATION

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	148.491211
East bounding longitude	149.875488
North bounding latitude	-31.370445
South bounding latitude	-30.266579
NSW Place Name	Pilliga Region

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	1989-01-07
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	Individual fire events are processed then mosaicked into a region wide layer for each fire year in the record.

Limitations on public access

Responsible party

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Responsible party role	pointOfContact

Metadata date   2024-02-26T13:33:34.024779

Metadata language