Title	Historical Fire Extent and Severity Mapping (FESM) - Myall Lakes
Alternative title(s)	FESM - Myall Lakes
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 Myall Lakes 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
Myall Lakes Area of Interest shapefile	Name: Myall Lakes Area of Interest shapefile Protocol: WWW:DOWNLOAD-1.0-http--download Description: Shapefile for the Myall Lakes area of interest Function: download
Historical FESM - Myall Lakes - Wildfire - 1989-90 to 2015-16	Name: Historical FESM - Myall Lakes - Wildfire - 1989-90 to 2015-16 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Historical FESM mapping for the Myall Lakes 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 - Myall Lakes - Hazard Reductions - 1989-90 to 2015-16	Name: Historical FESM - Myall Lakes - Hazard Reductions - 1989-90 to 2015-16 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Historical FESM mapping for the Myall Lakes region of hazard reduction burns from 1989-90 to 2015-16. 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
FESM method publication - comparison of satellites	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	a64cfe50-699f-4ef8-8c3c-8b7ab2630900

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/a64cfe50-699f-4ef8-8c3c-8b7ab2630900
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	151.929932
East bounding longitude	152.616577
North bounding latitude	-32.643037
South bounding latitude	-32.21648
NSW Place Name	Myall Lakes 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

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

Metadata point of contact

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

Metadata date

2024-02-26T13:21:35.877485

Metadata language