Title	Historical Fire Extent and Severity Mapping (FESM) - Northern Forests Region	
Alternative title(s)	FESM - Northern Forests	
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 Northern Forests 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	Name: Data Quality Statement	
Statement	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Data quality statement for Historical Fire Extent and Severity Mapping (FESM) - Blue Mountains Region	
	Function: download	
Northern Forests	Name: Northern Forests Area of Interest shapefile	
<u>Area of Interest</u> <u>shapefile</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
snapeme	Description:	
	Shapefile for the Northern Forests area of interest	
	Function: download	
<u>Historical FESM -</u>	Name: Historical FESM - Northern Forests - Wildfire - 1989-90 to 2015-16	
<u>Northern Forests</u> <u>- Wildfire - 1989-</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
<u>90 to 2015-16</u>	Description:	
	Historical FESM mapping for the Northern Forests 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 -	Name: Historical FESM - Northern Forests - Hazard Reductions - 1989-90 to 2015-16	
<u>Northern Forests</u> - Hazard	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
Reductions -	Description:	
<u>1989-90 to 2015-</u> <u>16</u>	Historical FESM mapping for the Northern Forests region of hazard reduction burns from 1989-90 to 2015-16.	
	Function: download	
FESM method	Name: FESM method publication	
publication	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	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.	

FESM method publication - comparison of satellites	Function: download	
	Name: FESM method publication - comparison of satellites	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	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	a02f91b4-9e1d-46f6-acd9-5fb34d48956b	
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/a02f91b4-9e1d-46f6-acd9-5fb34d48956b	
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	151.677246
East bounding longitude	152.644043
North bounding latitude	-31.267204
South bounding latitude	-30.541367
NSW Place Name	Macquarie Marshes 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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Metadata point of contact

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Responsible party role	pointOfContact	
Metadata date	2024-02-26T13:37:20.677478	
Metadata language		