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| Title | Fire Extent and Severity Mapping (FESM) 2023/24 |
| Alternative title(s) | FESMv3 |
| Abstract | <p>Fire severity is a metric of the loss of biomass caused by fire. In collaboration with the NSW Rural Fire Service, DCCEE 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, extent only (grass fires), low severity (burnt understory, unburnt canopy), moderate severity (partial canopy scorch), high severity (complete canopy scorch, partial canopy consumption), extreme (full canopy consumption).</p> <p>This dataset represents the 2023/24 fire year including all wildfires >10ha with a fire start date between 1 July 2023 and 30 June 2024.</p> |
| Resource locator | <p>Show on SEED Web Map Name: Show on SEED Web Map Protocol: WWW:DOWNLOAD-1.0-http--download Description: Display dataset on SEED's map Function: download</p> <p>Data Quality Statement Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Fire Extent and Severity Mapping (FESM) 2023-24 Function: download</p> <p>Published journal article Name: Published journal article Protocol: WWW:DOWNLOAD-1.0-http--download Description: A remote sensing approach to mapping fire severity in south-eastern Australia using sentinel 2 and random forest. Function: download</p> <p>Download Package Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: FESM 2023-24 - Erdas Imaging .img format Function: download</p> <p>Download Package Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: FESM 2023-24 - ArcGIS GRID format Function: download</p> <p>Download Package Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description:</p> |

FESM 2023-24 - Tiff format

Function: download

Unique resource identifier

Code f8e725eb-132d-43bf-b6bc-31048540fb53

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/f8e725eb-132d-43bf-b6bc-31048540fb53>

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

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|--|---|
| 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 | 140.273438 |
| East bounding longitude | 155.083008 |
| North bounding latitude | -36.354774 |
| South bounding latitude | -27.999058 |
| 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 | 2023-01-07 |
| 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

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 | data.broker@environment.nsw.gov.au |
| Web address | https://www.nsw.gov.au/departments-and-agencies/dcceew |
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Metadata point of contact

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Metadata date 2024-09-03T06:31:08.140106

Metadata language