Title	NSW Post-fire Biomass Recovery Monitoring by Remote Sensing
Alternative title(s)	PfBRM

Abstract

Observational monitoring of post-fire biomass recovery at the landscape scale is important to help us understand drivers of recovery processes, identify vulnerable ecosystems and prioritise management interventions to support ecological resilience. Following the extreme bushfire season of 2019–20, there is considerable concern from land managers and researchers regarding the pressure these fires have imparted on ecological resilience at a landscape scale, particularly due to short inter-fire intervals.

Remote sensing scientists from the Department of Climate Change, Energy, the Environment and Water's (hereafter the department's) Science and Insights Division have developed the NSW Post-fire Biomass Recovery Monitoring system. By mapping post-fire change in a satellite-based spectral reflectance index, the method can be used to monitor the change in the amount and greenness of vegetation cover following fires that have been previously mapped through the NSW fire extent and severity mapping (FESM) system.

NSW post-fire biomass recovery monitoring data is available for 1, 2 and 3 years following the black summer of 2019–20.

Resource locator

Data Quality Statement

Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement for NSW Post-fire Biomass Recovery Monitoring by Remote Sensing

Function: download

Published journal article

Name: Published journal article

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

The post-fire stability index - a new approach to monitoring post-fire recovery by satellite imagery

Function: download

Factsheet

Name: Factsheet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

NSW Post-fire Biomass Recovery Monitoring Factsheet v1

Function: download

Package download

Name: Package download

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

NSW Post-fire Biomass Recovery Monitoring for 1 year following 2019-20

Function: download

Package download

Name: Package download

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

NSW Post-fire Biomass Recovery Monitoring for 2 years following 2019-20

	Function: download
Package download	Name: Package download
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	NSW Post-fire Biomass Recovery Monitoring for 3 years following 2019-20
	Function: download

Unique resource identifier

Code	99e6980e-4997-4f56-b71b-4d295df80e18

Presentation form	Document digital

Edition	v1

Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/99e6980e-4997-4f56-b71b-4d295df80e18

Purpose	Fire management planning

Status	Completed

Spatial representation type	None

Spatial reference system

Code identifying the spatial reference system	4283

Topic category

Keyword set

keyword value	HAZARDS-Fire
	ECOLOGY-Landscape

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

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	2019-01-07
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	As needed

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

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	2024-10-15T04:26:52.820910

Metadata language