

Title

2019/2020 Bushfire Inquiry project water quality dataset

Abstract

The Integrated Water Quality and Environmental Monitoring Dataset before, during and after the 2019/2020 Bushfires is a comprehensive repository of data compiled from multiple sources, including the MER (Monitoring, Evaluating, Reporting) program and other relevant sources. This dataset encompasses various types of information essential for assessing the impact of the 2019/2020 bushfires on water quality in selected ICOLLs (Intermittently Closed and Open Lakes and Lagoons) and river estuaries. It incorporates historical water quality data collected during the bushfires and post-bushfire period through the MER program, rainfall data from nearby BOM (Australian Bureau of Meteorology) weather stations, logger data deployed at selected estuaries during or shortly after the bushfire season, dates of fire impact on the monitored systems, and surface and depth water quality monitoring data from smart buoys deployed across various estuaries.

Components:

1. Estuary and fire impact data Information detailing the systems incorporated in this data set and the dates when these systems were affected by the 2019/2020 bushfires.
2. MER Program Data (Lakes, Rivers): Historical water quality data collected during the 2019/2020 bushfires and subsequent periods as part of the MER program. Includes parameters such as pH levels, turbidity, salinity, chlorophyll-a concentrations, dissolved oxygen concentrations and nutrient concentrations. The MER dataset was collected as part of the NSW Government Monitoring, evaluating and reporting on estuaries program. The reported data has met the required QA/QC standards associated with this program. For further information: <https://www.environment.nsw.gov.au/topics/water/estuaries/monitoring-and-reporting-estuaries>
3. Rainfall Data: Precipitation data obtained from BOM weather stations located near the monitored estuaries.
4. Logger data: Data recorded by loggers deployed at selected estuaries including Lake Conjola, Meroo Lake, Termeil Lake, Wonboyn Lake, and Tuross River during or immediately following the 2019/2020 bushfire season . Includes measurements of environmental parameters such as water temperature, dissolved oxygen and salinity. Compiled from published data available here: <https://datasets.seed.nsw.gov.au/dataset/bushfire-impact-water-quality>
5. Smart Buoy Monitoring Data: Surface and depth water quality monitoring data collected from smart buoys deployed in various estuaries (Wonboyn Lake, Wallaga Lake, Lake Conjola, and Durras Lake). This data provides continuous or periodic measurements of water quality parameters, offering insights into spatial and temporal variations in water quality after the bushfire period in the longer-term.

Resource locator[Data Quality Statement](#)

Name: Data Quality Statement

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

Description:

Data quality statement for 2019/2020 Bushfire Inquiry project water quality dataset

Function: download

[Bushfire water quality datasets](#)

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Function: download

Unique resource identifier**Code**

c9f77d9c-7ad0-4f3a-b30d-326d733744fe

Presentation form

Document digital

Edition	1
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/c9f77d9c-7ad0-4f3a-b30d-326d733744fe
Purpose	Water monitoring to inform fire management/response
Status	Completed
Spatial representation type	None
Spatial reference system	
Code identifying the spatial reference system	4283
Topic category	

Keyword set	
keyword value	WATER-Quality HAZARDS-Fire MARINE-Estuaries
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	149.26
East bounding longitude	154
North bounding latitude	-37.7
South bounding latitude	-28
NSW Place Name	NSW East Coast
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	2014-01-01
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
Limitations on public access	

Responsible party

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Metadata date 2024-05-30T23:06:25.224623

Metadata language