

Title	NSW Koala Sentinel monitoring program - genomics data 2023 - 2024
Abstract	The Koala Sentinel Monitoring Program is a multi-year initiative designed to assess koala populations across six key locations in NSW. The program focuses on monitoring disease prevalence, genetic diversity, and ecological factors influencing koala populations. The data collected aims to identify and understand the complex interactions between environmental threats and koala population health, providing insights into long-term population trends. Since its launch, the program has completed one full monitoring cycle (Nov 2023 – Sept 2024) and is currently in its second round, which will conclude in September 2025. Genomics data This metadata statement describes the genomic and individual-level data collected during the first annual sampling period (2023–2024) and links to the publicly available whole genome resequencing (WGR) dataset.
Resource locator	
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Koala Sentinel monitoring program - genomic data 2023 2024 Function: download
Koala Sentinel monitoring program - genomics data 2023 - 2024	Name: Koala Sentinel monitoring program - genomics data 2023 - 2024 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Six Sentinel sites are located across the NSW including Richmond Range National Park on the far north coast, Kanangra-Boyd National Park in the Greater Blue Mountains area, and national parks and reserves in Port Macquarie on the mid north coast, the Southern Tablelands, Narrandera in the Riverina, and Woronora Plateau south of Sydney. Heat-sensing drones are used to find koalas at night, then animal handlers catch the koalas for assessment at a mobile field hospital run by the Taronga Conservation Society Australia’s veterinary team. Each koala is given a health check, and samples are taken to assess their health, disease status and genetics. This dataset describes the genetic results across all 6 sites for 2024. Function: download
NSW Sentinel Genomic WGR Metadata Summary - 2023 - 2024	Name: NSW Sentinel Genomic WGR Metadata Summary - 2023 - 2024 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Genomic and individual-level data collected during the first annual sampling period (2023–2024) with a link to the publicly available whole genome resequencing (WGR) dataset on Amazon Web Services (AWS) public repository. Function: download
Unique resource identifier	
Code	003600a1-d2d7-4761-8573-1a95212be7d0
Presentation form	Table digital
Edition	1
Dataset language	English

Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/003600a1-d2d7-4761-8573-1a95212be7d0
Purpose	Scientific analysis to understand koala population ecology
Status	On going
Spatial representation type	None
Spatial reference system	
Code identifying the spatial reference system	4283
Additional information source	Genomic Data Metadata This metadata file - Koala_Sentinel_Monitoring_Program_Genomic_Metadata_2023_2024.csv - describes whole genome resequencing (WGR) samples from sentinel koala populations. Genomic data is available via on AWS S3 via the URL link in the attached data. Purpose: The metadata supports sample discoverability, ecological integration, and re-use in comparative genomics. Metadata Fields: Column Name - Description • Koala_ID- Unique identifier assigned to each sampled koala • Location- Site or region where the sample was collected (6 primary locations) • Collection_Date - Date the sample was collected (format: DD/MM/YYYY) • Coverage - Mean WGR sequence coverage per sample • Sex - Sex of the individual koala (M = Male, F = Female) • Notes - Additional comments (e.g., sample quality, field observations) Data Summary • Number of Samples: 259 • Locations Represented: Kanangra-Boyd NP, Narrandera, Port Macquarie, Richmond Range, Woronora Plateau, * Southern Tablelands • Sequence Coverage: ~13.45X to ~32.61X • Sex Distribution: Both males and females
Topic category	

Keyword set	
keyword value	FAUNA-Native ECOLOGY
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	145.17
East bounding longitude	153.87
North bounding latitude	-35.17
South bounding latitude	-28.09
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	2023-01-11
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Annually
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 2025-05-20T21:10:38.392398

Metadata language