



Australian Government

National Environmental Monitoring Sites Register

The National Environmental Monitoring Sites Register (NEMSR) provides a consolidated view of Australia's high-quality environmental monitoring sites.

What is the National Environmental Monitoring Sites Register?

The NEMSR is a core component of the National Environmental Information Infrastructure (NEII) (www.neii.gov.au). It is an application that ingests, stores and displays key attributes of Australia's high-quality environmental monitoring networks. The attributes include data custodian, location, observation types and methods. Where available, the NEMSR also links to the observational data itself.

For the first time, users can access consistent information regarding the nation's environmental monitoring capability from across environmental domains.

Networks available in the NEMSR include seismic monitoring stations, ocean radars, long-term weather observation sites, flux stations, and ground cover reference sites. The NEMSR will grow as other networks are added.



Why are environmental monitoring sites so important?

There are many important monitoring networks across Australia. Observations from monitoring sites are fundamental for understanding environmental change, predicting future states, and examining cause-and-effect relationships.

The NEMSR brings together monitoring sites across environmental domains. This will make it easier to identify and examine links between our air, land, water, oceans, and biota.

How can I use the NEMSR?

The NEMSR can be accessed in two ways:

1. Select one or more environmental monitoring networks to view and explore using the NEII data viewer. This is an interactive mapping tool found at www.neii.gov.au/viewer.
2. Access NEMSR programmatically through web service endpoints provided for each registered network at www.neii.gov.au/nemsr/how-use. Users can embed these endpoints in their applications and systems.

How can I contribute to the NEMSR?

The NEII programme is working with partners through the NEII Reference Group to identify and on-board further monitoring networks. Contact environment@bom.gov.au to register additional monitoring networks.

Guidelines for preparing data using the NEMSR information model, vocabularies, and data format are available at www.neii.gov.au/nemsr/data-providers.

Quick start guide: National Environmental Monitoring Sites Register

START HERE Click on '+ Add data' to

- Browse the Data Catalogue
- Add NEII Data Services
- Add Environmental Monitoring Sites

CLICK to view data services information

CLICK on a dot to see site information and link to data

CHANGE the viewer's base map

SHARE your work

- copy and send share URL
- shorten the share URL

FULL SCREEN

DRAG AND DROP your own GEOJSON files on the map

Feature Information
Seismic - Leigh Creek, SA

Site Details

Description	Vault and pier style installation
Site URL	http://ds.iris.edu/mda/AU/LCRK
Operating Authority	Geoscience Australia
Operating Authority URL	http://www.ga.gov.au/scientific-topics/hazards/earthquake/capabilities/monitoring#heading-3
Site Data Licence Type	Open Creative Commons
Site Status	Active
Spatial Reference System	http://www.opengis.net/def/crs/EPSG/0/4326
Latitude	-30.45
Longitude	138.22
Elevation	
Point Date	None

Site Observation Capabilities

Observation Method	In-Situ land-based platforms
Observed Property	Solid Earth Tectonics
Procedure	http://www.ga.gov.au/scientific-topics/hazards/earthquake/capabilities/monitoring#heading-1
Data Availability	Available Web Data Services
Sampling Regime	Less Than One Second
First Observation Date	2013-06-16
Final Observation Date	None

Give feedback

Disclaimers: This map must not be used for navigation or precise spatial analysis - Data Corporation © 2016 HERE © 2016 MapData Sciences Pty Ltd, PSMW

Find out more

For more information about the National Environmental Information Infrastructure go to www.neii.gov.au

