

IndexGeo Pty Ltd - online geographic directories

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1. Developing network directories for discovering geographic information

Discover Australasian spatial data to meet your map-making needs	<ul style="list-style-type: none">• Services• Contact details• Examples of work	<ul style="list-style-type: none">• Geospatial resource discovery news• Geospatial metadata• Geospatial acronyms• Technical support• Search this site
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IndexGeo Pty Ltd is an Australian information technology services company established in 1995. Our primary business is to develop online interfaces to geographic information, especially directories and catalogues of spatial data (i.e. earth-related data) and natural resources information. We have been instrumental in building some of the key online geospatial services in Australia. The facilities that we develop allow effective management and discovery of geospatial information resources.

2. Services

- Geospatial search and text search facilities, using ISO23950 (Z39.50) search and retrieve services. Structured document search with XML
- Metadata input facilities and geospatial document management services
- Establishing Internet services using existing backend information systems
- Integration with geographic information systems (GIS) and database management systems (RDBMS)
- Interactive mapping

3. Contact details

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Our office is located in [Goulburn](#), New South Wales, Australia (between Sydney and Canberra).

4. Examples of work

- [Z-alarm](#) - ensure that Z39.50 geographic search servers are properly configured and reliably available.
- [Z-alert](#) - automated search of ASDD to show new or updated dataset descriptions this month.
- [Eco Companion](#) environmental resources catalogue and online document management service
 - Concise descriptive documents are personally managed by members and published as catalogue records.
 - Sophisticated digital library search facilities (using Z39.50) enable effective resource discovery and promote documents to worldwide virtual library networks.
 - Document management facilities use Standard Generalised Markup Language (SGML).
 - Validation services for batches of geospatial dataset descriptions to ensure professional XML document collections
- "Technical assistance" project to establish the [Australian Spatial Data Directory \(ASDD\)](#) - package software, technical documentation, configuration, testing, support
- Establish some nodes of the distributed ASDD, including:
 - Australian Antarctic Data Centre ([AADC](#))
 - Australian Hydrographic Office ([AHO](#))
 - Australian Surveying and Land Information Group ([AUSLIG](#))
- Locality mapping component of "[Search AUSLIG Master Names File](#)" interface (look for the blue locality cross and map availability markers). (This service has now changed to something else.)
- Australian Environmental Resources Information Network ([ERIN](#)) at Environment Australia (an Australian government agency) ...
 - Full text and bibliographic search facilities using Wide Area Information Servers (WAIS) with key words and phrases to discover relevant documents. Also simple geographic search facilities using the <META> tags of HTML.
 - Search for information available in a region using various interactive map interfaces and freeWAIS-sf structured text searching. The interface is no longer available. The techniques are now used in other ERIN services.
 - [A Generic Map Interface to Query Geographic Information using the World Wide Web](#)
Crossley, D.C. and Boston, T. (August 1995)
Best Paper [First Asia-Pacific WWW Conference](#) Sydney, Australia. September 1995

Invited Paper [Fourth International WWW Conference](#) Boston, USA. December 1995

- Online directory of spatial data for the Commonwealth Environment Portfolio to assist with geospatial data management. Use the abovementioned interface and select the "Spatial Data Sets" option.
- Searchable collections of URLs of "Environmental Information Sources on the Internet" with a user input and URL management system behind it.
- Precursor to the Australian Marine and Coastal Data Directory.

5. Geospatial resource discovery news

Events that we consider are important in the field of geospatial resource discovery in Australasia. See the [news](#) page for more detail and links.

- Main gateway to Australian Spatial Data Directory ([ASDD](#)) has moved to GeoScience Australia
- ANZLIC Metadata Guidelines version 2 is released
- ANZLIC metadata working group releases version 1.3 of the ANZMETA XML Document Type Definition (DTD) for geospatial metadata
- GSDI Cookbook is released - guidelines for building spatial data infrastructures
- Australian Spatial Data Directory (ASDD) is released at the GSDI Conference
- ANZLIC paper "Technology Evaluation and Proposed Framework for the Australian Spatial Data Directory (ASDD)" is available
- Eco Companion Australasia - catalogue of environmental resources and document management service is released

6. Geospatial metadata in Australasia: activities, resources, explanations

[Geospatial metadata](#) (dataset descriptions) are catalogue records describing collections of earth-related data. These documents are structured metadata (data about data) which concisely describe the datasets. The records form the basis of online digital library catalogues. Our set of pages outline the components of geospatial metadata management and some development activities in Australia and New Zealand.

7. Geospatial datasets

Some [geospatial datasets](#) that are managed by IndexGeo Pty Ltd, using [Eco Companion Australasia](#) - environmental resources catalogue and online document management service.

8. Technical support

[Technical support](#), resources, guidelines, and assistance for implementing Z39.50 search services. Explains how to establish a Z39.50 server to make your organisation's geospatial data available for searching in the distributed Australian Spatial Data Directory ([ASDD](#)) and hence other catalog services. IndexGeo can assist you to implement the server and to

manage your metadata.

IndexGeo Pty Ltd is an active [contributer](#) to the Apache Software Foundation.

9. Search this site

Simple search of IndexGeo pages and selected Eco Companion pages

- [Search for geospatial data](#)
- [Search Eco Companion catalogue](#)

- enclose phrases with "double quotes"
- case insensitive
- join terms with AND, OR, ANDNOT
- *manage** will match *management, manage, managed, manager*

This site makes minimal use of graphic images and maximal use of text ... efficient searching, fast, informative, clutter free. Of course, there is appropriate image usage for locality map thumbnail images.