

**Title** Grid Garage ArcGIS Toolbox

**Abstract**

The **Grid Garage** Toolbox is designed to help you undertake the Geographic Information System (GIS) tasks required to process GIS data (geodata) into a standard, spatially aligned format. This format is required by most, grid or raster, spatial modelling tools such as the [Multi-criteria Analysis Shell for Spatial Decision Support \(MCAS-S\)](#). Grid Garage contains 36 tools designed to save you time by batch processing repetitive GIS tasks as well diagnosing problems with data and capturing a record of processing step and any errors encountered.

Grid Garage provides tools that function using a list based approach to batch processing where both inputs and outputs are specified in tables to enable selective batch processing and detailed result reporting. In many cases the tools simply extend the functionality of standard ArcGIS tools, providing some or all of the inputs required by these tools via the input table to enable batch processing on a 'per item' basis. This approach differs slightly from normal batch processing in ArcGIS, instead of manually selecting single items or a folder on which to apply a tool or model you provide a table listing target datasets. In summary the Grid Garage allows you to:

- List, describe and manage very large volumes of geodata.
- Batch process repetitive GIS tasks such as managing (renaming, describing etc.) or processing (clipping, resampling, reprojecting etc.) many geodata inputs such as time-series geodata derived from satellite imagery or climate models.
- Record any errors when batch processing and diagnose errors by interrogating the input geodata that failed.
- Develop your own models in ArcGIS ModelBuilder that allow you to automate any GIS workflow utilising one or more of the Grid Garage tools that can process an unlimited number of inputs.
- Automate the process of generating MCAS-S TIP metadata files for any number of input raster datasets.

The Grid Garage is intended for use by anyone with an understanding of GIS principles and an intermediate to advanced level of GIS skills. Using the Grid Garage tools in ArcGIS ModelBuilder requires skills in the use of the ArcGIS ModelBuilder tool.

**Download Instructions:** Create a new folder on your computer or network and then download and unzip the zip file from the GitHub Release page for each of the following items in the 'Data and Resources' section below. There is a folder in each zip file that contains all the files. See the Grid Garage User Guide for instructions on how to install and use the Grid Garage Toolbox with the sample data provided.

**Resource locator**

[Data Quality Statement](#)

Name: Data Quality Statement  
Protocol: WWW:DOWNLOAD-1.0-http--download  
Description:  
Data quality statement for Grid Garage ArcGIS Toolbox  
Function: download

[Grid Garage V3.1 ArcGIS Toolbox](#)

Name: Grid Garage V3.1 ArcGIS Toolbox  
Protocol: WWW:DOWNLOAD-1.0-http--download  
Description:  
Grid Garage V3.1 ArcGIS Toolbox. See instructions in the Grid Garage User Guide to install and use the toolbox in ArcGIS.  
Function: download

[Grid Garage V3.1 User Guide](#)

Name: Grid Garage V3.1 User Guide  
Protocol: WWW:DOWNLOAD-1.0-http--download  
Description:  
Grid Garage ArcGIS Toolbox User Guide. Also contains technical documentation for

each of the 36 tools and tutorials.

Function: download

[Grid Garage  
Sample Data  
v1.0.2](#)

Name: Grid Garage Sample Data v1.0.2

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

Description:

Sample Data v1.0.2 for use with Grid Garage V3.1 ArcGIS Toolbox User Guide and tutorials.

Function: download

## Unique resource identifier

Code 16f10f27-9506-4452-a317-31fa9df4dfba

Presentation form documentDigital

Edition 3.10

Dataset language eng

## Metadata standard

Name ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Version 1.1

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/16f10f27-9506-4452-a317-31fa9df4dfba>

Purpose Manage and manipulate spatial data

Status completed

## Spatial reference system

Authority code GDA94 Geographic (Lat\Long)

Code identifying the spatial reference system 4283

Topic category Environment

## Keyword set

keyword value software

## Originating controlled vocabulary

Title ANZLIC Search Words

Reference date 2008-05-16

Geographic location	
West bounding longitude	-170.31096
East bounding longitude	196.804705
North bounding latitude	-84.827884
South bounding latitude	84.444197
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	2017-03-06
End position	N/A
Dataset reference date	
Date type	creation
Effective date	2016-03-18
Date type	publication
Effective date	2017-08-15
Date type	revision
Effective date	2017-08-15
Resource maintenance	
Maintenance and update frequency	unknown
Contact info	
Organisation name	Department of Planning, Industry and Environment
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Responsible party role pointOfContact

## Constraint set

Use constraints This data is provided under a Creative Commons Attribution 4.0 licence <http://creativecommons.org/licenses/by/4.0> Attribute 'Office of Environment and Heritage (OEH)' in publications using this data.

Limitations on public access

Scope dataset

## Responsible party

Contact position Data Broker

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## Metadata point of contact

Contact position	Data Broker
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Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
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Responsible party role	distributor

Metadata date	2017-08-15
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Metadata language	eng
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