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 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 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	Name: Grid Garage Sample Data v1.0.2

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	Document digital
Edition	3.1.2.1
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/16f10f27-9506-4452-a317-31fa9df4dfba
Purpose	Manage and manipulate spatial data
Status	Completed
Spatial representation type	None

Spatial reference system

Code identifying the spatial reference system	4283

Topic category

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	180
North bounding latitude	-84.82788
South bounding latitude	84.4442

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

Resource maintenance

Maintenance and update frequency	Unknown

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

2024-02-26T13:08:07.778947

Metadata language