Data dictionary

for the

1:500 000 tectonic units of Western Australia, 2017



Data dictionary

In Geographic Information Systems (GIS), data dictionaries are used as a means to record the names of the attributes (items) in each feature class, together with a description of the attribute values. Tables 1 and 2 list the GIS themes or feature classes and lookup tables used in this digital data package, for which this data dictionary has been provided.

Table 3 provides detailed information about the attributes of each feature class included in this digital data package. Each data dictionary table contains the following information: Feature class, File name, Feature category, Spatial type, Description, and details particular to the feature class described. These details are listed under headings: Item name, Key, Optional, Type, Width, and Description. Tabulated information in italics describes the contents of Microsoft Access database lookup tables (LUT).

For Key, a code is used to indicate whether the item or field is a key used to link information:

P = Primary key

F = Foreign key

Null = Not a key

For Optional, a code is used to indicate whether the items or fields may or may not be provided in a data package:

True = Optional

False = Not optional

For item Type, a code is used to describe the field type:

C = Currency values

D = Date field, may include time

F = Decimal number as an internal floating-point number, single or double precision

H = Hyperlink field for storing URL path

I = Integer field, having whole numbers only, short or long format

M = Memo field

T = Text/character field

Y = One bit field that contains only one of two values (e.g. Yes/No, True/False, On/Off)

Table 1: The following is a listing of the feature classes in this digital package.

Feature class:	Description
Geology	
1:500k tectonic units of Western Australia, 2017	1:500 000 tectonic units of Western Australia, 2017

Table 2: The following is a listing of databases used in this digital data package. **Note:** Databases are provided in Microsoft Access 2003 format. Database tables are also provided as CSV files.

Database name:	Description
geol_lut.mdb	Geology and interpreted geology lookup tables database

Table 3: The following is a detailed listing of the feature classes and associated lookup tables.

Feature class:	1:50	0k tectonic	c units of	Western	Australia, 2017		
File name:	500k	500k_tectonicp17					
Feature category:	Geol	Geology					
Spatial type:	Regi	Region					
Description:	1:50	1:500 000 tectonic units of Western Australia, 2017					
Item name	Key	Optional	Type	Width	Description		
TECTCODE	F	False	T	30	Tectonic unit code		
TECTNAME		False	T	100	Tectonic unit name		
CUSTODIAN		False	T	10	Organization holding source data		
PUBLISH_DA		False	D		Date the layer was published		
DRAWORDER		False	T	50	Representation of unit overlap in the draw order of polygons (A is uppermost)		
TECTCOLOUR		False	Т	30	Code for grouping and colour design purposes, based on dominant age (codes as in Explanatory Notes database) and characteristic lithologies		
SYMBOL		False	T	254	Dominant age and characteristic lithologies, based on TECTCOLOUR for plot purposes		
Lookup table:	500k	500k_tectonicp17_lut					
Description:	GEOL_LUT tectonic units of Western Australia, 2017 lookup table: Microsoft Access table						
Field name	Key	Optional	Type	Width	Description		
SORT		False	I		Sort order for data legend		
TECTNO		False	I		Tectonic identifier linking to Explanatory Notes database		
TECTCODE	P	False	T	30	Tectonic unit code		
TECTNAME		False	T	100	Tectonic unit name		
TECTTYPE		False	T	50	Tectonic unit type		
LITHOLOGY		False	T	50	Predominant or characteristic rock type(s) of tectonic unit		
TECTSETTIN		False	T	30	Tectonic setting of unit		
TSETT_QUAL		False	T	50	Tectonic setting qualifier		
PARENTCODE		False	T	30	Code of the parent tectonic unit for the unit displayed in the TECTCODE field		
PARENTNAME		False	T	100	Name of the parent tectonic unit for the unit displayed in the TECTCODE field		
PARENTTYPE		False	T	50	Type of the parent tectonic unit for the unit displayed in the TECTCODE field		
STATE		False	T	100	Western Australia: State-level tectonic unit		
WATECTUNIT		False	T	100	State-scale tectonic unit		
SSUITE_TEC		False	T	100	Supersuite tectonic; all igneous rocks related to a specific tectonic event		
SUITE_TEC		False	T	100	Suite tectonic; all igneous rocks related to a specific parental magmatic composition generated at a specific time		
CRATON		False	T	100	Geologically stable part of the Earth's crust, mostly older than 2.4 Ga		
SUPERTERRA		False	T	100	Superterrane; a group of related terranes		
CRATON_TER		False	T	100	Craton terrane; a fault-bounded body of rock within a craton, with a distinct geological history		
DOMAIN_		False	T	100	A fault-bounded body of rock within a CRATON_TER		
GREENSTONE		False	T	100	Greenstone belt or granitic complex		
SUPERBASIN		False	T	100	A group of related basins of a similar age		

BASIN	False	T	100	Accumulation of sedimentary rocks in a regional crustal depression
SUBBASIN	False	T	100	First order subdivision of a BASIN
SUBBASIN_E	False	T	100	Sub-basin element; subdivision of a SUBBASIN, generally structural
OROGEN	False	T	100	Tectonic belt characterized by regional deformation, metamorphism, magmatism, and related sedimentation
PROVINCE	False	T	100	Tectonic unit with a complex deformation, metamorphic, and magmatic history
PROV_TZONE	False	T	100	Tectonic subdivision of PROVINCE into terranes or zones
TECT_SUBDI	False	T	100	Tectonic subdivision of PROV_TZONE
OROG_FOR	False	T	100	Orogenic foreland; an area of craton and/or basin reworked by orogenic events
OROG_FORSU	False	T	100	Orogenic foreland subunit; structural feature within an OROG_FOR
IN_OUTLIER	False	T	100	Inlier or outlier; older tectonic unit surrounded by younger unit or younger tectonic unit surrounded by older unit
EVENTS	False	М		Tectonic and magmatic events affecting the tectonic unit (ages in brackets indicate maximum and minimum age in millions of years)
ERA_FROM	False	T	30	Maximum age of tectonic unit as described by geological timescale (era, e.g. Mesozoic)
ERA_TO	False	T	30	Minimum age of tectonic unit as described by geological timescale (era, e.g. Cenozoic)
MAX_AGE_MA	False	F		Maximum possible age of tectonic unit in millions of years
MIN_AGE_MA	False	F		Minimum possible age of tectonic unit in millions of years
TECTCOLOUR	False	T	30	Code for grouping and colour design purposes, based on dominant age (codes as in Explanatory Notes database) and characteristic lithologies
SYMBOL	False	T	254	Dominant age and characteristic lithologies, based on TECTCOLOUR for plot purposes