



1:500 000 tectonic units of Western Australia, 2022

The 2022 update of the digital '1:500 000 tectonic units of Western Australia' has been compiled, using boundaries derived from the digital '1:500 000 State interpreted bedrock geology of Western Australia, 2020'. For the offshore component, the map uses data and divisions from the Geoscience Australia 'Australian Geological Provinces' GIS dataset, with polygons adjusted to match seamlessly into the onshore tectonic elements. The nomenclature and hierarchy for the tectonic units are based on weekly updates from the Explanatory Notes System (ENS). In order to provide the most up-to-date geological information for the units in question, attribution from the original source is modified to remove superseded units, display correct tectonic relationships and include more recent geochronology.

The nomenclature and hierarchy for the tectonic units are based on the GSWA Explanatory Notes System. The State is the highest level unit in the hierarchy and is subdivided at the next level into Archean to Paleoproterozoic cratons; Proterozoic orogens; Archean, Proterozoic and Phanerozoic basins (or superbasins); and igneous supersuites.

All units depicted on this map, with the exception of basins and some igneous supersuites, are at the third or lesser hierarchical level. Cratons are subdivided into superterrane, terranes and domains. Orogens are divided into provinces and orogenic forelands, and may also incorporate sedimentary basins; provinces are further subdivided into terranes/zones.

Q Datasets [GDA2020]

Statewide spatial datasets - [GDA2020]

Geology

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Last Updated	Size	File Format	
04/12/2022	19.38 MB	ESRI File Geodatabase (with QGIS file)	Download
04/12/2022	38.90 MB	ESRI Shape File (with QGIS file)	Download
04/12/2022	22.64 MB	MapInfo TAB	Download

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Free (online): Go to the Data and Software Centre (<https://dasc.dmirs.wa.gov.au>) > Statewide spatial datasets > Geology > 1:500 000 Tectonic units of Western Australia



Government of Western Australia
Department of Mines, Industry Regulation
and Safety

Geological Survey of
Western Australia

