



### Samarium–neodymium isotope map of Western Australia

This data layer represents samarium–neodymium isotope map of Western Australia based on whole-rock Sm–Nd isotope data for felsic igneous rocks. The maps show two-stage depleted mantle model ages ( $T_{DM^2}$ , proxy for the age of the crustal source of the igneous rocks) and crustal residence time (the difference between  $T_{DM^2}$  and magmatic crystallization age, i.e. the length of time the source of the igneous rocks has resided in the crust). Although mafic to intermediate igneous and sedimentary rocks were not used in constructing the isotope maps, Sm–Nd data for those samples are included with those for felsic igneous rocks in the data table. The data are held in GDA94.

<https://dasc.dmirs.wa.gov.au>

- Statewide spatial datasets - [GDA1994]
  - Geochronology & Isotope Geology
    - Samarium–neodymium isotope map - [GDA1994]

Last Updated	Size	File Format	
13/06/2022	2.74 MB	ESRI Shape File	<a href="#">Download</a>
14/06/2022	2.97 MB	MapInfo TAB	<a href="#">Download</a>
14/06/2022	28.53 MB	JPEG2000 - [GDA1994]	<a href="#">Download</a>
13/06/2022	19.47 MB	ESRI BIL - [GDA1994]	<a href="#">Download</a>

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Enquiries to [gsd.data@dmirs.wa.gov.au](mailto:gsd.data@dmirs.wa.gov.au); Phone: +61 8 9222 3459  
 Free (online): Go to the Data and Software Centre (<https://dasc.dmirs.wa.gov.au>) > Statewide Spatial Datasets > Geochronology & Isotope Geology > Samarium–neodymium isotope map



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

Geological Survey of Western Australia

