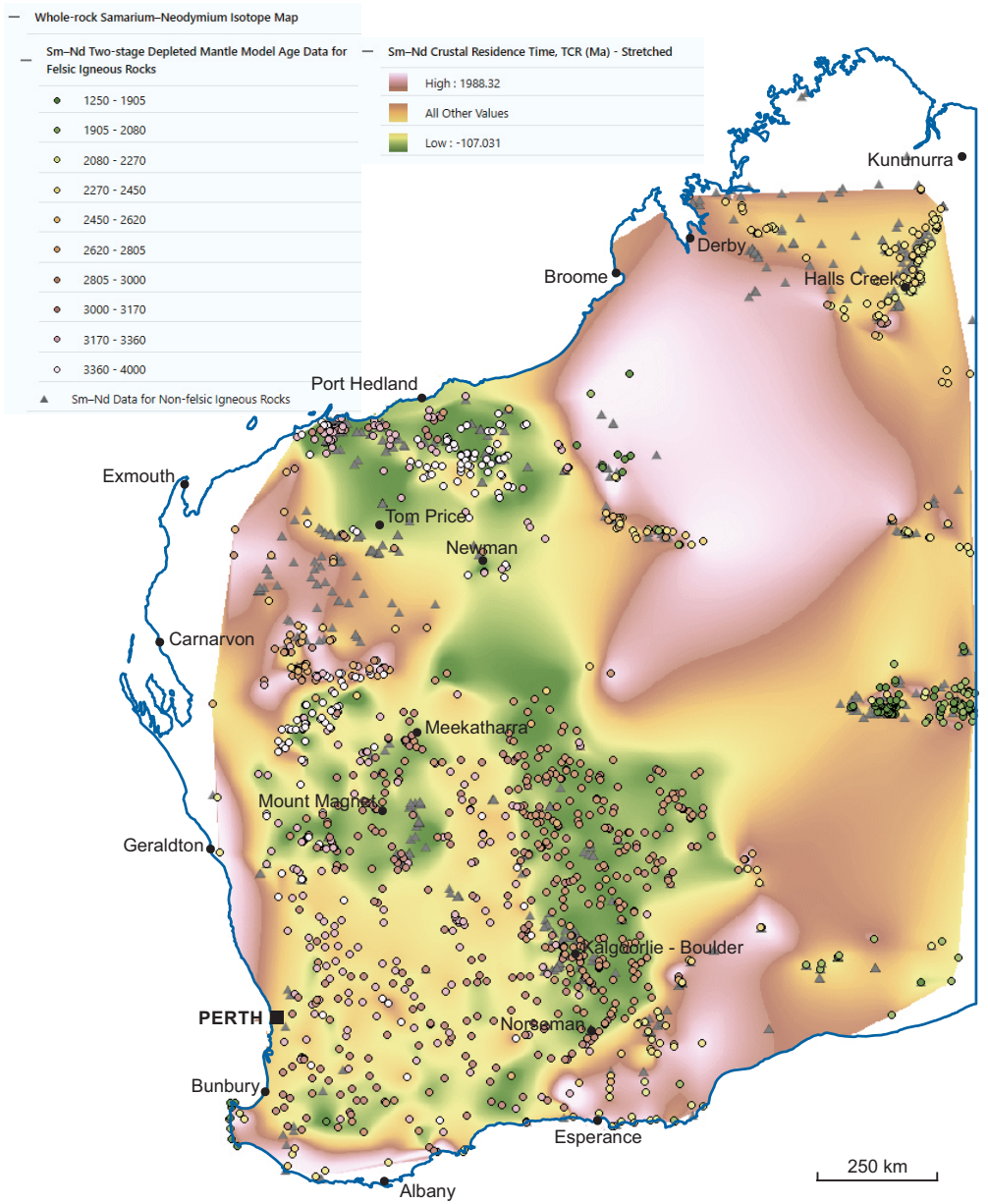

Samarium–neodymium isotope map of Western Australia

This data layer represents the 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	
29/06/2023	843 KB	ESRI BIL - GDA1994	Download
29/06/2023	561 KB	ESRI Shape File	Download
29/06/2023	21.57 MB	JPEG2000 - GDA1994	Download
29/06/2023	843 KB	MapInfo TAB	Download

Samarium–neodymium isotope map of Western Australia

Enquiries to 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