

# Southwest Yilgarn Moho, 2021

by

RE Murdie, H Yuan <sup>1,2</sup>

## Abstract

Southwest Yilgarn Moho, 2021 is a depth contour map of the Mohorovičić (Moho) discontinuity between the crust and mantle as determined from seismological methods (Fig. 1). The map is based on the AuSREM model (Salmon et al., 2012) at half degree-gridded intervals with additional data from seismic refraction lines (Dentith et al., 2000) and receiver function data from passive seismic deployments and permanent seismic stations (Reading et al., 2003).

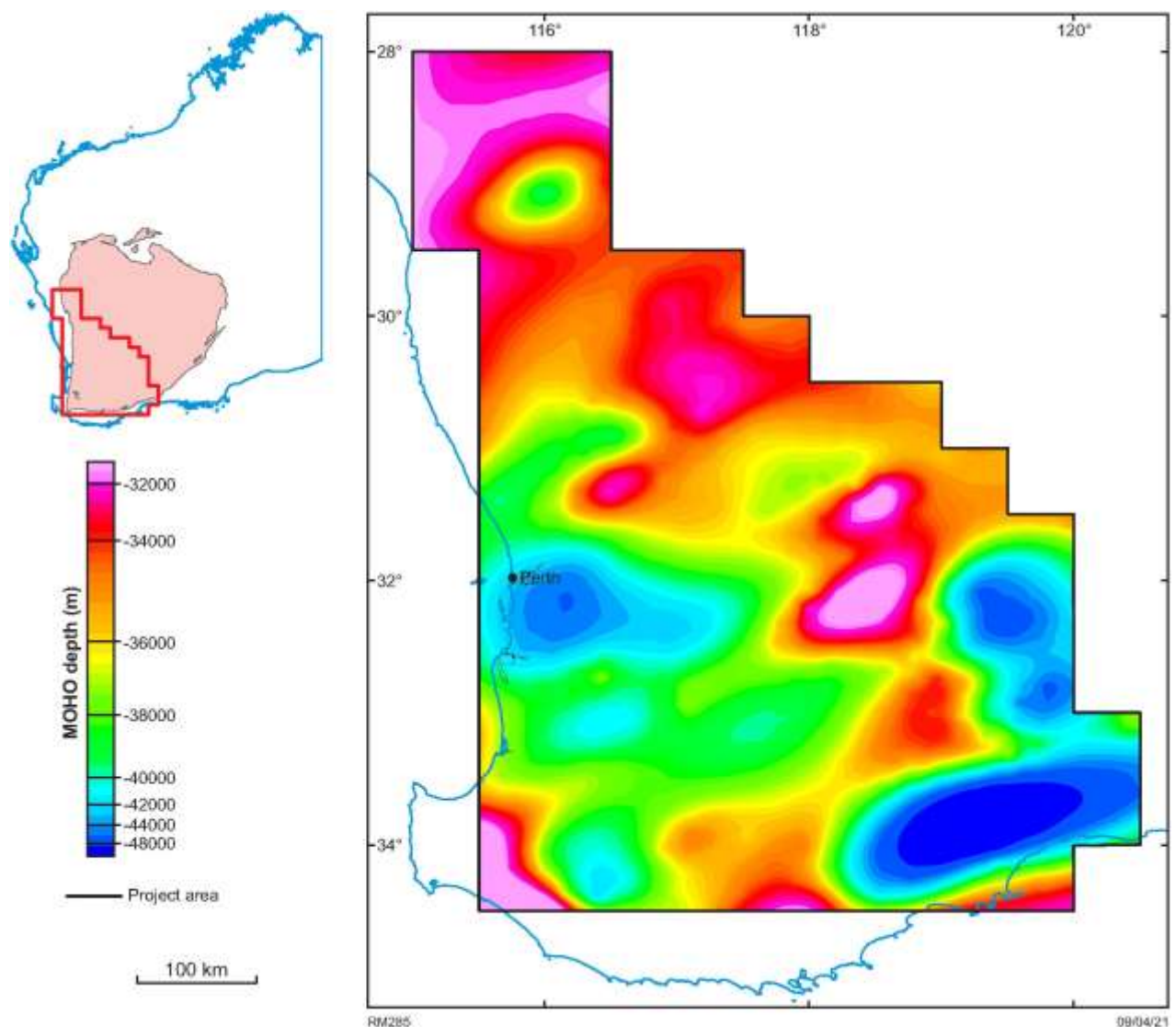


Figure 1. Southwest Yilgarn Moho 2021

<sup>1</sup> ARC Centre of Excellence for Core to Crust Fluid Systems, Macquarie University, Balacava Road, North Ryde NSW 2019

<sup>2</sup> Centre of Exploration Targeting, The University of Western Australia, Stirling Highway, Crawley WA 6009

## How to access

The data layer is best accessed using [GeoVIEW.WA](#). This online interactive mapping system allows data to be viewed and searched together with other datasets, including Geological Survey of Western Australia and Geoscience Australia geochronology data, geological maps and mineral exploration datasets. Southwest Yilgarn Moho, 2021 data layer is also available as a free download from the Data and Software Centre via Datasets – Statewide spatial datasets – Geology – Southwest Yilgarn Moho, 2021, as ESRI shapefiles and MapInfo TAB files.

## References

- Dentith, MC, Dent, VF and Drummond, BJ 2000, Deep crustal structure in the southwestern Yilgarn Craton, Western Australia: Tectonophysics, v. 325, p. 227–255.
- Reading, AM, Kennett, BLN and Dentith, MC 2003, Seismic structure of the Yilgarn Craton, Western Australia: Australian Journal of Earth Sciences, v. 50, no. 3, p. 427–438, doi:10.1046/j.1440-0952.2003.01000.x.
- Salmon, M, Kennett, BLN and Saygin, E 2012, Australian Seismological Reference Model (AuSREM): Crustal component: Geophysical Journal International, v. 192, p. 190–206.

## Recommended reference

Murdie, RE and Yuan, H 2021, Southwest Yilgarn Moho 2021: Geological Survey of Western Australia, digital data layer, <[www.dmirs.wa.gov.au/geoview](http://www.dmirs.wa.gov.au/geoview)>.



Centre for **EXPLORATION  
TARGETING**



**THE UNIVERSITY OF  
WESTERN AUSTRALIA**  
*Achieving International Excellence*



### Disclaimer

This product uses information from various sources. The Department of Mines, Industry Regulation and Safety (DMIRS) and the State cannot guarantee the accuracy, currency or completeness of the information. Neither the department nor the State of Western Australia nor any employee or agent of the department shall be responsible or liable for any loss, damage or injury arising from the use of or reliance on any information, data or advice (including incomplete, out of date, incorrect, inaccurate or misleading information, data or advice) expressed or implied in, or coming from, this publication or incorporated into it by reference, by any person whosoever.



© State of Western Australia (Department of Mines, Industry Regulation and Safety) 2021

With the exception of the Western Australian Coat of Arms and other logos, and where otherwise noted, these data are provided under a Creative Commons Attribution 4.0 International Licence. (<http://creativecommons.org/licenses/by/4.0/legalcode>)