

# Biostratigraphy data, Phanerozoic and Neoproterozoic basins of Western Australia

by

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## Abstract

The Energy Systems Atlas is a collection of new geological map layers designed to help explorers identify each of the essential elements and processes of a petroleum system: source, reservoir, seal, burial, maturation, stratigraphic framework, structure, trap formation and migration. Biostratigraphic data is a key component of this dataset, providing details on the age and depositional environments of strata within the Phanerozoic and some Proterozoic basins of Western Australia. To this end, legacy biostratigraphic data from WAPIMS has been updated and additional information will be compiled using new and legacy data submitted to, or generated by, the Geological Survey of Western Australia (GSWA). The biostratigraphic analyses have been compiled from reports submitted to GSWA, including from petroleum companies, other government departments, academic institutions and research bodies as well as new analysis arranged by GSWA, with this information covering the majority of Western Australian sedimentary basins. New biostratigraphic data will be added to the dataset as they become open file. Biostratigraphic information is derived from a broad range of macro- and micropaleontological groups, including spores and pollen, dinoflagellates, acritarchs, foraminifera, conodonts, nannofossils and stromatolites.

The results and methods for all biostratigraphic data are outlined in the original reports, and are provided in the attribute tables for all data in the Energy Systems Atlas. GSWA publications are available from [DMIRS eBookshop](https://www.dmirs.wa.gov.au/wapims). Unless otherwise stated, the depths are given as metres measured depth.

## How to access

The **Energy Systems Atlas** is best accessed using the Western Australian Petroleum and Geothermal Information Management System ([WAPIMS](https://www.dmirs.wa.gov.au/wapims)). This online interactive mapping system allows data to be viewed and searched together with other datasets. The Energy Systems Atlas biostratigraphic data are also available as a data package on request from WAPIMS/requests form.

## Recommended reference

Brooks, DM, Martin S, Allen H and Irimies, F 2021, Biostratigraphy data, Phanerozoic and Neoproterozoic basins of Western Australia: Geological Survey of Western Australia, digital dataset, <[www.dmirs.wa.gov.au/wapims](https://www.dmirs.wa.gov.au/wapims)>.

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