**Title**

: New Zealand’s hydrogeological systems polygon GIS dataset.

**Date**

: First release: June 2019

: Current Release: January 2025

**Abstract**

The ‘NZ\_hydrogeologicalsystem\_polygon\_20250131.zip’ consists of the following complementary files:

* ‘NZ\_hydrogeologicalsystem\_polygon\_20250131.shp’ which provide, for each system, seven hydrogeological attributes as follows (attribute name as it appears in the dataset shown in brackets): unique name (HS\_name), unique identification (HS\_id), system type (HS\_type), coastal information (HS\_coast), aquifer overview (HS\_overview), geology and age group (HS\_geo\_gr), and geology and age descriptor (HS\_geo\_age).
* ‘HUM\_facies\_model\_list\_20250131.csv’ which lists current facies model and their definition criteria. These models apply to hydrogeological units.

Attribute names, descriptions and values as well as source and method of boundary delineation are detailed in Moreau et al., 2019 (see Credits for full reference). This dataset supersedes the version released in 2024.

**Release notes**

Modifications in the Current Release include:

* Removal of duplicated polygon in the Karamea and Mokihinui areas.
* Addition of a list of HS system names list to the file bundle ‘HS\_system\_names\_list\_20250131.csv’.

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: In compiling the datasets, inferences and assumptions have been made about hydrogeological systems at a regional scale (i.e., 1:250,000). At the time of publishing, no validations using actual observations have been made (e.g., yield, aquifer properties, etc.), and the datasets do not include any information regarding the sustainability of a hydrogeological system (e.g., recharge/discharge areas, water balance, etc.). Experience and an appreciation of the limitations of the datasets is needed by persons using the datasets as an element in their decision making over access to and use of groundwater resources. In addition, the datasets should be treated with caution for detailed studies at map scales of less than 1:250,000.

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**Update frequency**

:There is currently no scheduled update for this dataset. it is therefore recommended to include the release date when using and referencing the dataset.

**Resource constraints**

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Where the dataset is used in a figure, GNS Science requests attribution in the following manner: © GNS Science 2025. Where reference to the dataset is to be included in a reference list please cite Moreau et al., 2019 (see Credits for full reference).

**Spatial resolution**

: This dataset is provided with an indicative resolution of 1:250,000-scale. Details on uncertainty pertaining to scale, resolution and capture of the input dataset is detailed in Moreau et al., 2019 (see Credits for full reference).

**Spatial Extent**

: New Zealand, bounding box 'NZ': ('New Zealand', (166.509144322, -46.641235447, 178.517093541, -34.4506617165))

**Temporal Extent**

: Not applicable

**Credits**

: Moreau M, White PA, Mourot F, Rawlinson Z, Tschritter C, Cameron SC, Westerhoff R. 2019 (Revised 2025). Classification of New Zealand hydrogeological systems. Lower Hutt (NZ): GNS Science. [28] p. (GNS Science report; 2018/35). doi:10.21420/42QW-MC74.