

## Global Change Data Encyclopedia

# North Island, New Zealand

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The North Island is located in the northeastern of New Zealand, southeast of Australia, and the western of the South Pacific Ocean. It is separated 25.80 km from South Island by Cook Strait. The geo-location of the North Island is between  $34^{\circ}23'36''\text{S}$  and  $41^{\circ}36'51''\text{S}$ ,  $172^{\circ}38'35''\text{E}$ , and  $178^{\circ}33'2''\text{E}$ <sup>[1-2]</sup> (Figure 1, 2).

The North Island is the smaller island in the two principal islands of New Zealand<sup>[3]</sup>. The total area of the North Island is 114,052.58 km<sup>2</sup> (Albers Projection), and the total coastline is 7,609.73 km (Lambert Projection). The North Island of New Zealand has a sub-tropical climate with countless islands and small bays. The four seasons are distinct and the average annual temperature is around 12 °C.



**Figure 1** Map of the North Island (.shp format)

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[2] Lv, T. T., Tao, Z., Shi, R. X., et al. North Island, New Zealand [DB/OL]. Global Change Data Repository, 2020. DOI: 10.3974/geodb.2020.02.06.V1.



**Figure 2** Map of the North Island (.kmz format)

The coastline of the North Island is tortuous. Prentice Bay and Hawkes Bay are two famous bays on the North Island. The North Island is dominated by hilly landforms, with many volcanoes in the central part. The most famous volcanoes are Ruapehu, Egmont, and Talavera. Lake Taupo, the island's largest lake, is also the largest lake in New Zealand. New Zealand's capital, Wellington, is located at the southern end of the island, while the largest city, Auckland, is located in the north, and most of New Zealand's residents live in these two cities.

The dataset was developed based on Google Earth and related maps and references<sup>[2-3]</sup>. The dataset consists of 26 data files and archived in the .kmz and .shp<sup>[4]</sup> data formats with a data size of 24.2 MB (Compressed to 22.7 MB in three files).

## References

- [1] Sino Maps Press. Map of New Zealand [M]. Beijing: Sino Maps Press, 2016.
- [2] Liu, C., Shi, R. X., Zhang, Y. H., *et al.* Global multiple-scale shorelines dataset based on Google Earth images (2015) [DB/OL]. Global Change Data Repository, 2019. DOI: 10.3974/geodb.2019.04.13.V1.
- [3] Lv, T. T., Tao, Z., Shi, R. X., *et al.* North Island, New Zealand [DB/OL]. Global Change Data Repository, 2020. DOI: 10.3974/geodb.2020.02.06.V1.

## Data Computing Environment

- [4] ESRI. ArcGIS campus license of Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences.

## URL for Data Downloading

<http://www.geodoi.ac.cn/WebEn/doi.aspx?Id=1428>.

Or search through: <http://www.geodoi.ac.cn>.