

全球变化数据大百科辞条

新西兰北岛

吕婷婷¹, 陶 醉¹, 石瑞香², 刘 闯^{2*}

1. 中国科学院空天信息创新研究院, 北京 100101; 2. 中国科学院地理科学与资源研究所, 北京 100101

关键词: 北岛; North Island; 新西兰; 太平洋; 数据大百科

DOI: 10.3974/geodp.2020.01.13

新西兰北岛 (North Island, New Zealand) 位于南太平洋西侧、澳大利亚的东南、新西兰的东北部, 地理位置北起 $34^{\circ}23'36''\text{S}$, 南至 $41^{\circ}36'51''\text{S}$; 西起 $172^{\circ}38'35''\text{E}$, 东至 $178^{\circ}33'2''\text{E}$ [1-2] (图 1, 图 2)。

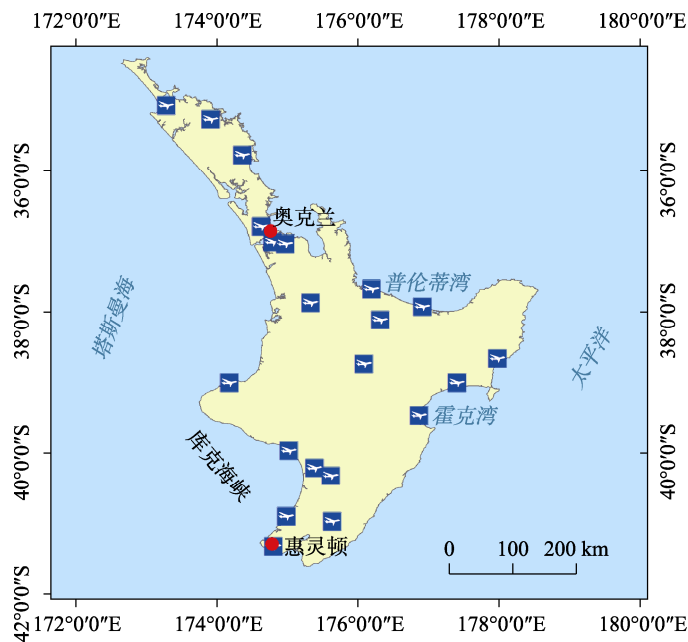


图 1 新西兰北岛数据可视化图 (.shp 格式)

收稿日期: 2020-03-06; 修订日期: 2020-03-17; 出版日期: 2020-03-25

基金项目: 中国科学院 (XDA19090110)

*通讯作者: 刘闯 L-3684-2016, 中国科学院地理科学与资源研究所, lchuang@igsrr.ac.cn

作者 ID: 吕婷婷 R-8978-2016, 陶醉 L-3684-2016, 石瑞香 L-4389-2016, 刘闯 L-3684-20166

数据引用方式: [1] 吕婷婷, 陶醉, 石瑞香等. 新西兰北岛——全球变化数据大百科辞条[J]. 全球变化数据学报, 2020, 4(1): 88-89. DOI: 10.3974/geodp.2020.01.13.

[2] 吕婷婷, 陶醉, 石瑞香等. 新西兰北岛——全球变化数据大百科辞条[DB/OL]. 全球变化数据仓储, 2020. DOI: 10.3974/geodb.2020.02.06.V1.

新西兰北岛是新西兰两个主要岛屿（北岛和南岛）中较小的一个^[3]，总面积为 114,052.58 km²（Albers 投影），海岸线总长度为 7,609.73 km（Lambert 投影）。新西兰北岛属于亚热带气候，遍布着无数岛屿和小海湾，四季分明，年平均气温 12℃左右。

北岛海岸线曲折，普伦蒂湾和霍克湾是北岛有名的两大海湾。北岛以丘陵地貌为主，中部多火山，以鲁阿佩胡火山（Ruapehu）、埃格芒特火山（Egmont）和塔拉韦拉火山（Talavera）最有名。岛上最大湖泊陶波湖（Lake Taupo），是新西兰最大的湖泊。新西兰首都惠灵顿（Wellington）位于该岛屿南端；奥克兰（Auckland）位于北岛的北部，是该岛的最大城市，超过 50%的新西兰居民居住在这两大城市。

本数据集基于 Google Earth 卫星影像及相关岛屿地图和资料信息综合基础上研发^[2-3]，以.kmz 和.shp^[4]数据格式存储，由 26 个数据文件组成，数据量 24.2 MB（压缩成 3 个数据文件，22.7 MB）。

参考文献

- [1] 中国地图出版社. 新西兰地图册[M]. 北京：中国地图出版社, 2016.
- [2] 刘闯, 石瑞香, 张应华等. 基于 Google Earth 遥感影像全球多尺度海陆(岛)岸线数据集(2015) [DB/OL]. 全球变化数据仓储, 2019. DOI: 10.3974/geodb.2019.04.13.V1.
- [3] 吕婷婷, 陶醉, 石瑞香等. 新西兰北岛——全球变化数据大百科辞条[DB/OL]. 全球变化数据仓储, 2020. DOI: 10.3974/geodb.2020.02.06.V1.

数据计算环境

- [4] ESRI. 中国科学院地理科学与资源研究所 ArcGIS 所内计算平台.

数据下载地址

<http://www.geodoi.ac.cn/WebCn/doi.aspx?Id=1428>.
或网站查询：<http://www.geodoi.ac.cn>.

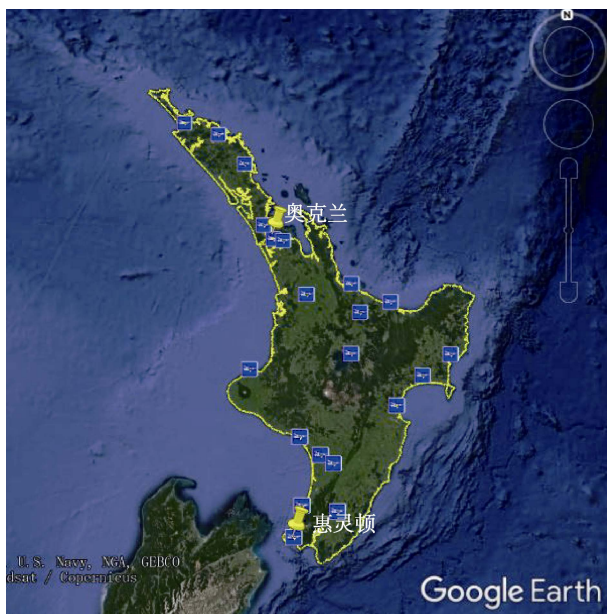


图2 新西兰北岛数据可视化图(.kmz 格式)

Global Change Data Encyclopedia

North Island, New Zealand

Lv, T. T.¹ Tao, Z.¹ Shi, R. X.² Liu, C.^{2*}

1. Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing 100101, China;

2. Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

Keywords: North Island; New Zealand; Pacific Ocean; data encyclopedia

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°23'36"S and 41°36'51"S, 172°38'35"E, and 178°33'2"E^[1-2] (Figure 1, 2).

The North Island is the smaller island in the two principal islands of New Zealand^[3]. The total area of the North Island is 114,052.58 km² (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.

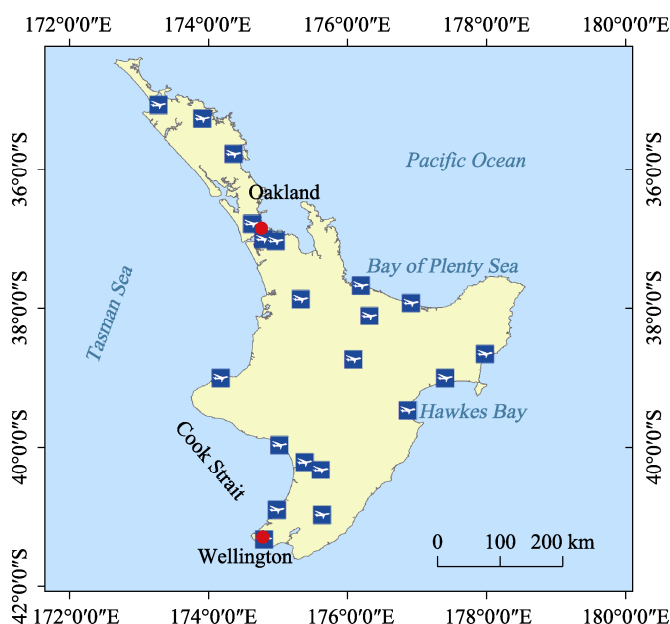


Figure 1 Map of the North Island (.shp format)

Received: 06-03-2020; **Accepted:** 03-17-2020; **Published:** 25-03-2020

Foundation: Chinese Academy of Sciences (XDA19090110)

***Corresponding Author:** Liu, C. L-3684-2016, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, lchuang@igsnrr.ac.cn

Author ID: Lv, T. T. R-8978-2016; Tao, Z. L-3684-2016; Shi, R. X. L-4389-2016; Liu, C. L-3684-20166

Data Citation: [1] Lv, T. T., Tao, Z., Shi, R. X., et al. North Island, New Zealand [J]. *Journal of Global Change Data & Discovery*, 2020, 4(1): 88–89. DOI: 10.3974/geodp.2020.01.13.

[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.

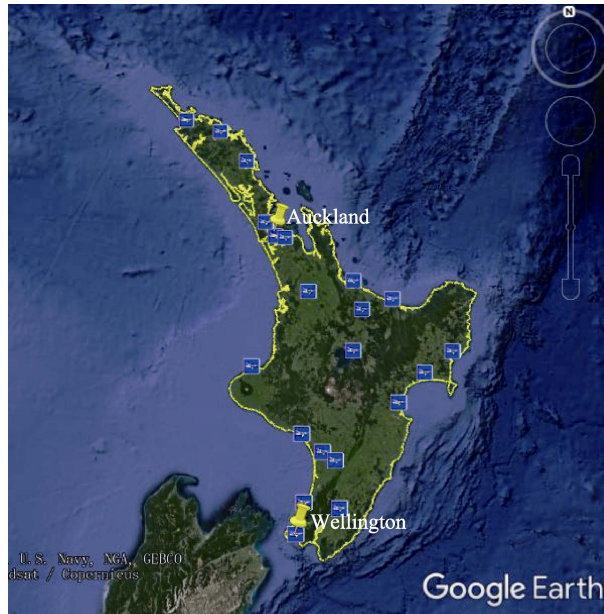


Figure 2 Map of the North Island (.kmz format)

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^[2–3]. The dataset consists of 26 data files and archived in the .kmz and .shp^[4] 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>.