

Global Change Data Encyclopedia

South Sandwich Islands

Shen, Y.^{1*} Wu, L. Z.²

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

2. China Polar Research Center, Shanghai 200136, China

Keywords: South Sandwich Islands; Atlantic Ocean; South Georgia Group; data encyclopedia

The South Sandwich Islands is part of the South Georgia and the South Sandwich Islands^[1]. It is located in the southern Atlantic Ocean, southeast of South Georgia Group^[2], with the geo-location is 56°16'44"S–59°27'44"S, 27°36'26"W–26°16'8"W^[3] (Figure 1, Figure 2).

There are 26 islands in the South Sandwich Islands, shaping like an arc, and the main islands from the north to south are: Zavodovski Island, Visokoi Island, Candlemas Island, Vindication Island, Saunders Island, Montagu Island, Bristol Island, Bellingshausen Island, Cook Island, and Thule Island. Among them, Montagu Island is the largest, with the area of 100.51 km² and the shoreline of 45.28 km; the second largest one is Saunders Island whose area is 36.78 km² and the coastline is 29.55 km. The total

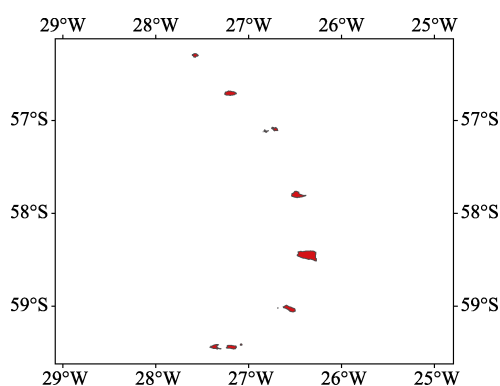


Figure 1 Map of South Sandwich Islands (.shp format)

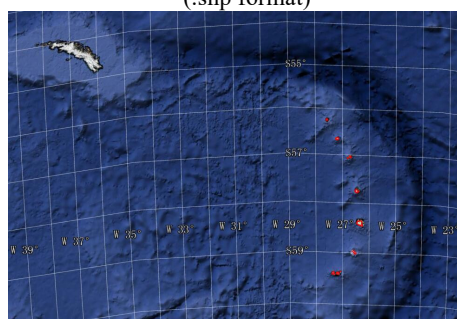


Figure 2 Map of South Sandwich Islands (.kmz format)

Received: 16-08-2019; **Accepted:** 15-09-2019; **Published:** 25-09-2019

Foundation: Ministry of Science and Technology of P. R. China (2017YFA0604701)

***Corresponding Author:** Shen, Y. C-6558-2019, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, shenyan@igsnr.ac.cn

Author ID: Shen, Y. C-6558-2019; Wu, L. Z. AAA-3615-2019

Data Citation: [1] Shen, Y., Wu, L. Z. South Sandwich Islands [J]. *Journal of Global Change Data & Discovery*, 2019, 3(3): 303–304. DOI: 10.3974/geodp.2019.03.12.

[2] Wu, L. Z., Shen, Y. South Sandwich Islands [DB/OL]. Global Change Research Data Publishing & Repository, 2019. DOI: 10.3974/geodb.2019.05.08.V1.

area of the South Sandwich Islands is 254.82 km² and the coastline is 231.76 km (Table 1).

Table 1 Geolocation, area and coastline of main islands of the South Sandwich Islands

Name of island	Geolocation	Center of island	Area (km ²)	Coastline (km)
Montagu Island	58°24'16"S–58°30'52"S, 26°28'44"W–26°16'8"W	58°27'18"S, 26°22'8"W	100.51	45.28
Saunders Island	57°45'43"S–57°49'54"S, 26°32'22"W–26°23'3"W	57°47'57"S, 26°28'13"W	36.78	29.55
Bristol Island	58°59'24"S–59°3'42"S, 26°37'44"W–26°29'51"W	59°1'35"S, 26°33'38"W	29.12	25.25
Visokoi Island	56°40'53"S–56°43'54"S, 27°15'29"W–27°7'54"W	56°42'25"S, 27°11'49"W	28.80	23.51
Cook Island	59°25'17"S–59°27'41"S, 27°14'34"W–27°7'51"W	59°26'27"S, 27°11'9"W	19.44	19.61
Thule Island	59°24'43"S–59°27'44"S, 27°25'6"W–27°17'54"W	59°26'15"S, 27°21'39"W	16.44	26.30
Zavodovski Island	56°16'44"S–56°19'9"S, 27°36'26"W–27°32'33"W	56°17'55"S, 27°34'32"W	10.36	21.90
Candlemas Island	57°4'23"S–57°6'42"S, 26°45'17"W–26°41'8"W	57°5'33"S, 26°43'7"W	9.61	21.58
Vindication Island	57°6'28"S–57°7'33"S, 26°49'56"W–26°47'54"W	57°7'1"S, 26°48'55"W	2.04	8.07
Bellingshausen Island	59°24'16"S–59°25'14"S, 27°5'30"W–27°4'16"W	59°24'47"S, 27°4'53"W	1.55	4.93
Others			0.17	5.78
Total			254.82	231.76

The dataset was developed based on the Google Earth and related maps and references, and its spatial vector data is from AN_I_shoreline_m_gg_2015shp.rar of the Global Multiple Scale Shorelines Dataset Based on Google Earth Images (2015)^[4]. The dataset is consisted of 17 data files and archived in the .kmz and .shp^[5] data formats with the data size of 1.72 MB (Compressed to 728 KB in two files).

References

[1] South Georgia and the South Sandwich Islands [OL]. https://en.wikipedia.org/wiki/South_Georgia_and_the_South_Sandwich_Islands.
[2] South Georgia Island [OL]. https://en.wikipedia.org/wiki/South_Georgia_Island.
[3] Wu, L. Z., Shen, Y. South Sandwich Islands [DB/OL]. Global Change Research Data Publishing & Repository, 2019. DOI: 10.3974/geodb.2019.05.08.V1.
[4] 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 Research Data Publishing & Repository, 2019. DOI: 10.3974/geodb.2019.04.13.V1.

Data Computing Environment

[5] 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=1307>.
Or search through: <http://www.geodoi.ac.cn>.