

Global Change Data Encyclopedia

Isles of Scilly, United Kingdom

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The Isles of Scilly, also called Scilly Isles, is lying southwest of Cornwall, England, 40 to 58 km off Land's End. It's geo-location is 49°51'48"N–49°58'58"N, 6°26'45"W–6°14'34"W^[1–5] (Figures 1, 2).

There are 265 islands and islets in the Isles of Scilly, but only five of the islands are inhabited, St. Mary's Island, Tresco Island, St Martin's Island, Bryher Island and St. Agnes-Gugh Island. The Bryher Island ($49^{\circ}57'12''\text{N}$, $6^{\circ}21'22''\text{W}$) is the smallest inhabited island with the area of 1.61 km^2 and the coastline of 13.32 km . Bishop Rock ($49^{\circ}52'23''\text{N}$, $6^{\circ}26'44''\text{W}$), with an area of $2,447 \text{ m}^2$, is located at the western end of the Isles of Scilly, with a notable lighthouse of civil engineering built in November, 1858^[6]. The biggest island is the St. Mary's Island with the area of 7.37 km^2 and the coastline of 23.48 km . Other small islands include

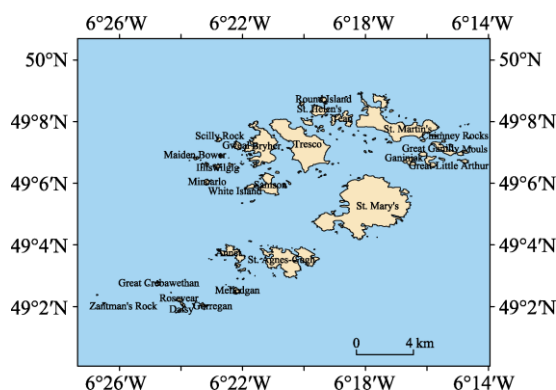


Figure 1 Map of the Isles of Scilly (.shp format)



Figure 2 Map of the Isles of Scilly (.kmz format)

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[2] Liu, C., Shi, R. X. Isles of Scilly [DB/OL]. Global Change Research Data Publishing & Repository, 2016. DOI: 10.3974/geodb.2016.09.07.V1.

Samson, Annet, Tean, Great Ganilly, St. Helen’s, Great-Little Arthur, Ganinick, Gweal, White Island, Little Ganilly, Round Island, Mincarlo, Menawethan, Great Innisvoul, Illiswilgig, Rosevear, Little Innisvoul, Ragged Island, Castle Bryher, and Maiden Bower^[7] (Table 1). The total area of the Isles of Scilly is 20.58 km² and the total coastline is 162.66 km.

Table 1 Geo-location, area and coastline of main islands of the Isles of Scilly

Name of the island	Geo-location	Center of the island	Area (m ²)	Coastline (m)
St. Mary’s	49°54’10”N–49°56’17”N, 6°19’45”W–6°16’31”W	49°55’15”N, 6°17’55”W	7,365,960	23,476
Tresco	49°56’21”N–49°58’5”N, 6°21’8”W–6°19’9”W	49°57’16”N, 6°20’3”W	3,136,360	11,190
St. Martin’s	49°57’21”N–49°58’54”N, 6°18’18”W–6°15’38”W	49°57’39”N, 6°16’58”W	2,888,700	16,043
St. Agnes-Gugh	49°52’56”N–49°53’56”N, 6°21’26”W–6°19’30”W	49°53’31”N, 6°20’29”W	1,989,340	13,276
Bryher	49°56’31”N–49°58’2”N, 6°21’57”W–6°20’51”W	49°57’12”N, 6°21’22”W	1,608,100	13,320
Samson	49°55’36”N–49°56’21”N, 6°21’31”W–6°20’49”W	49°55’57”N, 6°21’9”W	531,777	4,636
Annet	49°53’26”N–49°54’1”N, 6°22’45”W–6°21’54”W	49°53’44”N, 6°22’18”W	392,502	5,103
Tean	49°57’50”N–49°58’21”N, 6°19’8”W–6°18’25”W	49°58’6”N, 6°18’45”W	363,245	5,096
Great Ganilly	49°56’54”N–49°57’21”N, 6°15’53”W–6°15’4”W	49°57’7”N, 6°15’28”W	272,425	3,210
St. Helen’s	49°58’11”N–49°58’32”N, 6°19’49”W–6°19’12”W	49°58’21”N, 6°19’31”W	270,415	2,353
Great-Little Arthur	49°56’31”N–49°56’53”N, 6°16’5”W–6°15’42”W	49°56’37”N, 6°15’53”W	171,140	2,457
Ganinick	49°56’35”N–49°56’51”N, 6°16’48”W–6°16’22”W	49°56’43”N, 6°16’34”W	143,017	2,165
Gweal	49°57’5”N–49°57’22”N, 6°22’19”W–6°22’3”W	49°57’13”N, 6°22’10”W	97,597	1,629
White Island	49°55’47”N–49°55’59”N, 6°21’57”W–6°21’36”W	49°55’53”N, 6°21’45”W	63,201	1,289
Little Ganilly	49°56’53”N–49°57’1”N, 6°16’16”W–6°15’60”W	49°56’57”N, 6°16’8”W	62,084	958
Melledgan	49°52’25”N–49°52’38”N, 6°22’17”W–6°22’4”W	49°52’31”N, 6°22’11”W	53,455	1,317
Round Island	49°58’38”N–49°58’49”N, 6°19’29”W–6°19’16”W	49°58’44”N, 6°19’22”W	52,594	1,135
Mincarlo	49°55’56”N–49°56’8”N, 6°23’16”W–6°23’3”W	49°56’3”N, 6°23’10”W	52,192	1,132
Menawethan	49°56’39”N–49°56’47”N, 6°14’55”W–6°14’39”W	49°56’43”N, 6°14’46”W	45,864	1,065
Great Innisvoul	49°56’54”N–49°57’2”N, 6°15’1”W–6°14’49”W	49°56’58”N, 6°14’55”W	41,595	812
Illiswilgig	49°56’29”N–49°56’37”N, 6°22’58”W–6°22’40”W	49°56’33”N, 6°22’49”W	40,287	1,156
Scilly Rock	49°57’21”N–49°57’29”N, 6°22’52”W–6°22’41”W	49°57’25”N, 6°22’46”W	31,839	1,030
Rosevear	49°52’9”N–49°52’16”N, 6°24’11”W–6°23’58”W	49°52’13”N, 6°24’4”W	31,265	767
Little Innisvoul	49°56’59”N–49°57’4”N, 6°14’52”W–6°14’39”W	49°57’1”N, 6°14’46”W	25,716	787
Gorregan	49°52’1”N–49°52’8”N, 6°23’23”W–6°23’13”W	49°52’4”N, 6°23’18”W	23,802	732
Ragged Island	49°56’44”N–49°56’50”N, 6°15’37”W–6°15’25”W	49°56’47”N, 6°15’31”W	21,543	669
Seal Rock	49°56’32”N–49°56’41”N, 6°23’13”W–6°23’6”W	49°56’37”N, 6°23’9”W	19,586	765
Castle Bryher	49°56’35”N–49°56’40”N, 6°22’27”W–6°22’18”W	49°56’37”N, 6°22’24”W	16,871	618

(To be continued on the next page)

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Name of the island	Geo-location	Center of the island	Area (m ²)	Coastline (m)
Great Crebawethan	49°52'41"N–49°52'49"N, 6°24'47"W–6°24'40"W	49°52'45"N, 6°24'43"W	16,175	602
Maiden Bower	49°56'45"N–49°56'52"N, 6°23'36"W–6°23'30"W	49°56'49"N, 6°23'33"W	13,878	522
Daisy	49°51'53"N–49°51'56"N, 6°24'2"W–6°23'57"W	49°51'54"N, 6°23'59"W	7,402	320
Zantman's Rock	49°52'5"N–49°52'8"N, 6°26'33"W–6°26'27"W	49°52'7"N, 6°26'30"W	5,450	359
Bishop Rock	49°52'22"N–49°52'24"N, 6°26'45"W–6°26'42"W	49°52'23"N, 6°26'44"W	2,447	246
Little Crebawethan	49°52'42"N–49°52'43"N, 6°25'4"W–6°25'3"W	49°52'43"N, 6°25'3"W	705	102

The dataset was developed based on the Google Earth and related maps and references^[3–4]. The dataset is consisted of 15 data files and archived in the .kmz and .shp^[8] data formats with the data size of 395 MB (compressed to 163 MB in two files).

References

[1] Isles of Scilly [OL]. Encyclopedia Britannica, Encyclopedia Britannica Inc., August 16, 2019. <https://www.britannica.com/place/Isles-of-Scilly-islands-England-United-Kingdom>.

[2] Sino Maps Press. World Map Atlas: United Kingdom Atlas [M]. Beijing: Sino Maps Press, 2007.

[3] 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.

[4] Liu, C., Zhang, Y. H., Shi, R. X., *et al.* British Isles [DB/OL]. Global Change Research Data Publishing & Repository, 2019. DOI: 10.3974/geodb.2019.05.06.V1.

[5] Liu, C., Zhang, Y. H., Shi, R. X., *et al.* British Isles [J]. *Journal of Global Change Data & Discovery*, 2019, 3(3): 209–302.

[6] Liu, C., Shi, R. X. Isles of Scilly [DB/OL]. Global Change Research Data Publishing & Repository, 2016. DOI: 10.3974/geodb.2016.09.07.V1.

[7] Bishop Rock Lighthouse [OL]. Encyclopedia Britannica, Encyclopedia Britannica Inc., October 14, 2011. <https://www.britannica.com/topic/Bishop-Rock-Lighthouse>.

Data Computing Environment

[8] 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=617>.
Or search through: <http://www.geodoi.ac.cn>.