

Global Change Data Encyclopedia

Channel Islands

Zhang, Y. H. Liu, C. * Shi, R. X.

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

Keywords: Channel Islands; Cotentin Peninsula; English Channel; Normandy; data encyclopedia

Channel Islands is located at the entrance to the Gulf of Saint-Malo, in the English Channel, west of the Cotentin peninsula of France, 130 km south of the British Isles and 17 km from Granville. Chausey forms part of the Channel Islands under French Jurisdiction. It's geo-location is $48^{\circ}51'59''\text{N}$ – $49^{\circ}44'20''\text{N}$, $2^{\circ}42'12''\text{W}$ – $1^{\circ}43'51''\text{W}$ ^[1–3] (Figure 1, 2).

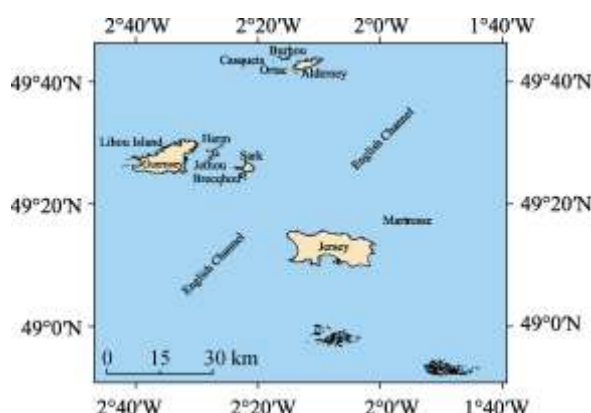


Figure 1 Map of Channel Island
(.shp format)



Figure 2 Map of Channel Islands
(.kmz format)

Channel Islands comprise four main islands, Jersey, Guernsey, Alderney, and Sark^[4]. They are 730 islands, islets, rocks and reefs with area bigger than 70 m². The Jersey is the largest island, about 20 km west of the Cotentin peninsula and about 30 km south of the Guernsey. Its area is 121.63 km² and coastline length is 100.25 km. Around it are two uninhabited isles, one of which is Minquiers southern extremity of the Channel Islands, and the

Received: 16-10-2019; **Accepted:** 05-03-2020; **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@igsnr.ac.cn

Data Citation: [1] Zhang, Y. H., Liu, C., Shi, R. X. Channel Islands [J]. *Journal of Global Change Data & Discovery*, 2020, 4(1): 86–87. DOI: 10.3974/geodp.2020.01.12.

[2] Zhang, Y. H., Liu, C., Shi, R. X. Channel Islands [DB/OL]. Global Change Data Repository, 2020. DOI: 10.3974/geodb.2020.02.04.V1.

other is Ecrehous eastern extremity of the Channel Islands. The second largest of the Channel islands is Guernsey with area of 65.59 km² and coastline of 101.21 km, western of the Channels. Alderney is located north of the Channel Islands and separated from the Normandy coast by the swift Race of Alderney. Sark lies in the middle of the Channel Island, about 11 km east of Guernsey and consists of two components, Great Sark and Little Sark. Other small islands include Herm, Brecqhou, Lihou Island, Burhou, Jethou, Martresse, Casquets, Marmotiere, Ortac, etc. (Table 1). The total area of the Channel islands is 216.82 km² and the total coastline length is 534.94 km.

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

Name of Island	Geolocation	Centroid of island	Area (km ²)	Coastline (km)
Jersey	49°9'45"N–49°15'44"N, 2°15'17"W–2°0'38"W	49°12'50"N, 2°7'59"W	121.63	100.25
Guernsey	49°24'59"N–49°30'35"N, 2°40'32"W–2°30'4"W	49°27'23"N, 2°34'46"W	65.59	101.21
Alderney	49°42'3"N–49°43'58"N, 2°14'4"W–2°9'30"W	49°42'56"N, 2°11'58"W	8.68	26.19
Sark	49°24'27"N–49°27'8"N, 2°22'60"W–2°20'31"W	49°25'45"N, 2°21'47"W	5.56	22.47
Herm	49°27'46"N–49°29'1"N, 2°27'31"W–2°26'27"W	49°28'23"N, 2°26'59"W	1.40	6.31
Brecqhou	49°25'42"N–49°26'7"N, 2°23'45"W–2°22'53"W	49°25'56"N, 2°23'17"W	0.38	3.88
Lihou Island	49°27'27"N–49°27'50"N, 2°40'23"W–2°39'49"W	49°27'40"N, 2°40'4"W	0.24	2.93
Burhou	49°43'43"N–49°43'60"N, 2°15'28"W–2°14'47"W	49°43'51"N, 2°15'8"W	0.22	2.79
Jethou	49°27'20"N–49°27'43"N, 2°27'57"W–2°27'32"W	49°27'31"N, 2°27'45"W	0.22	2.04
Maitresse	49°17'0"N–49°17'13"N, 1°55'39"W–1°55'30"W	49°17'7"N, 1°55'34"W	0.04	0.95
Casquets	49°43'15"N–49°43'22"N, 2°22'44"W–2°22'30"W	49°43'19"N, 2°22'37"W	0.03	0.98
Marmotiere	49°17'23"N–49°17'34"N, 1°55'54"W–1°55'38"W	49°17'29"N, 1°55'45"W	0.03	0.97
Ortac	49°43'22"N–49°43'24"N, 2°17'28"W–2°17'25"W	49°43'23"N, 2°17'26"W	0.002	0.17

The dataset was developed based on Google Earth and related maps and references^[2–3]. The dataset is consisted of 16 data files and archived in the .kmz and .shp^[5] data formats with the data size of 3.69 MB (Compressed to 1.56 MB in two files).

References

[1] Channel Islands [OL]. Encyclopedia Britannica, Encyclopedia Britannica Inc., 13 Mar. 2019. <https://www.britannica.com/place/Channel-Islands-English-Channel>.
[2] 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 Data Repository, 2019. DOI: 10.3974/geodb.2019.04.13.V1.
[4] Zhang, Y. H., Liu, C., Shi, R. X. Chanel Islands [DB/OL]. Global Change Data Repository, 2020. DOI: 10.3974/geodb.2020.02.04.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=1426>.
Or search through: <http://www.geodoi.ac.cn>.