

## Global Change Data Encyclopedia

# Outer Hebrides

Zhang, Y. H.<sup>\*</sup> Liu, C. Shi, R. X.

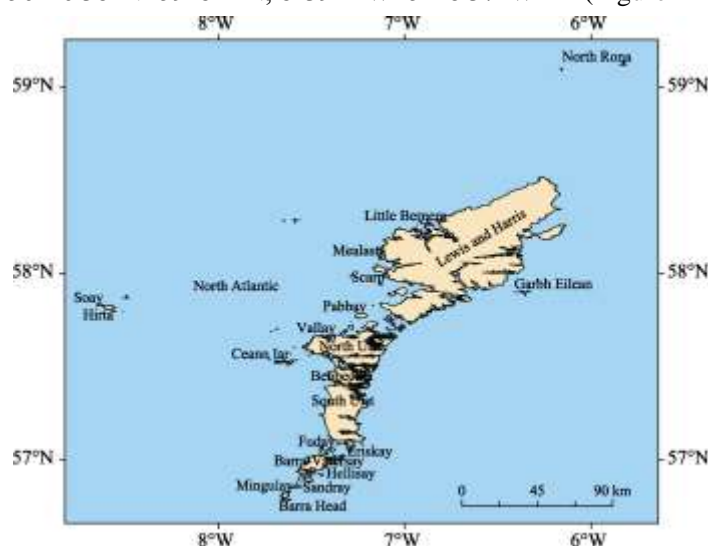
Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

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Outer Hebrides, off the northwestern coast of the Scotland extending in the Atlantic, is comprised in the Western Isles. The Outer Hebrides are separated from the Inner Hebrides by the Minch and Little Minch channels in the north and by the Sea of the Hebrides in the south. The Outer Hebrides lies in a crescent about 65 km from the Scottish mainland and its geo-location is  $56^{\circ}46'38''\text{N}$ – $59^{\circ}8'4''\text{N}$ ,  $8^{\circ}39'1''\text{W}$ – $5^{\circ}48'37''\text{W}$ <sup>[1–6]</sup> (Figure 1–2).



**Figure 1** Map of the Outer Hebrides (.shp format)

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**\*Corresponding Author:** Zhang, Y. H. A-3436-2019, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, zhangyinghua@igsnnr.ac.cn

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[2] Zhang, Y. H., Liu, C., Shi, R. X. Outer Hebrides [J/DB/OL]. *Digital Journal of Global Change Data Repository*, 2020. DOI: 10.3974/geodb.2020.03.12.V1.



**Figure 2** Map of the Outer Hebrides (.kmz format)

Outer Hebrides mainly consists of Lewis and Harris, North Uist, South Uist, Benbecula and Barra-Vatersay<sup>[7]</sup>. There are 2,413 islands and islets with area bigger than 25 m<sup>2</sup> in the Outer Hebrides. Lewis and Harris with area of 2,169.36 km<sup>2</sup> and coastline of 934.16 km is the largest and most northerly of the Outer Hebrides islands, lying 39 km from the west coast of the Scottish mainland and separated from it by the Minch channel. The North Uist is joined by constructed causeways with the Baleshare island in the northeast and with the Berneray island in the south. The Benbecula is similarly connected with the Eileann Chearabhaigh island in the north and the Flodaigh island in the south. Other larger islands include Great Bernera, Grimsay-Ronay, Taransay, Scarp, Pabbay, Isle of Scalpay, Eriskay, Hirta, Mingulay, Sandray, Wiay, Vallay, Ceann Ear, Boreray, Seaforth, Pabbay, Fuday, Barra Head, Ensay, Kirkbost, Killegray, Ceann Iar, Garbh Eilean, Hellisay, Ceallasaigh Mor-Beag, Eilean Iubhard, Mealasta, Little Bernera, North Rona, Soay, Gighay, Stromay, Pabaigh Mor, etc. (Table 1). The total area of the Outer Hebrides is 3,184.85 km<sup>2</sup> and the total length of its coastline is 3,401.72 km.

**Table 1** Geolocation, area and coastline of main islands of the Outer Hebrides

Name of island	Geolocation	Centroid of island	Area (km <sup>2</sup> )	Coastline (km)
Lewis and Harris	57°43'39"N–58°30'59"N, 7°8'11"W–6°8'6"W	58°7'59"N, 6°39'31"W	2,169.36	934.16
North Uist	57°29'49"N–57°44'22"N, 7°32'59"W–7°3'46"W	57°36'6"N, 7°17'23"W	337.69	438.12
South Uist	57°5'43"N–57°25'5"N, 7°27'35"W–7°11'31"W	57°15'2"N, 7°19'52"W	321.23	248.92
Benbecula	57°23'15"N–57°29'39"N, 7°24'53"W–7°11'49"W	57°26'40"N, 7°18'32"W	86.35	177.50
Barra–Vatersay	56°54'31"N–57°3'33"N, 7°34'58"W–7°22'30"W	56°58'42"N, 7°28'43"W	72.62	125.82

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Name of island	Geolocation	Centroid of island	Area (km <sup>2</sup> )	Coastline (km)
Great Bernera	58°12'1"N–58°15'38"N, 6°53'37"W–6°46'55"W	58°13'40"N, 6°50'27"W	21.23	50.16
Grimsay–Ronay	57°28'7"N–57°30'23"N, 7°17'29"W–7°9'27"W	57°29'22"N, 7°12'57"W	15.61	64.48
Taransay	57°52'29"N–57°55'19"N, 7°5'24"W–6°59'15"W	57°53'56"N, 7°1'45"W	14.62	26.33
Scarp	58°0'9"N–58°2'18"N, 7°10'21"W–7°5'56"W	58°1'15"N, 7°7'59"W	10.63	18.64
Pabbay	57°45'32"N–57°47'8"N, 7°16'5"W–7°11'56"W	57°46'21"N, 7°13'58"W	8.20	12.47
Isle of Scalpay	57°50'59"N–57°52'46"N, 6°42'51"W–6°38'26"W	57°51'53"N, 6°40'33"W	7.77	26.06
Eriskay	57°3'9"N–57°5'55"N, 7°19'20"W–7°16'6"W	57°4'29"N, 7°17'35"W	7.70	22.68
Hirta	57°47'37"N–57°49'43"N, 8°37'6"W–8°32'58"W	57°48'51"N, 8°35'1"W	7.17	19.82
Mingulay	56°47'46"N–56°49'51"N, 7°39'58"W–7°37'3"W	56°48'42"N, 7°38'24"W	6.65	19.38
Sandray	56°52'48"N–56°54'9"N, 7°32'25"W–7°29'21"W	56°53'33"N, 7°30'58"W	4.57	13.92
Wiay	57°23'7"N–57°24'41"N, 7°14'3"W–7°11'12"W	57°23'52"N, 7°12'33"W	4.40	22.85
Vallay	57°39'12"N–57°40'13"N, 7°26'39"W–7°22'23"W	57°39'45"N, 7°24'21"W	3.21	14.86
Ceann Ear	57°30'32"N–57°32'1"N, 7°37'52"W–7°35'45"W	57°31'18"N, 7°36'48"W	2.69	15.79
Boreray	57°41'59"N–57°43'12"N, 7°18'8"W–7°16'26"W	57°42'38"N, 7°17'18"W	2.63	6.99
Seaforth	57°59'8"N–58°0'30"N, 6°44'28"W–6°42'45"W	57°59'51"N, 6°43'34"W	2.60	6.81
Pabbay	56°50'50"N–56°51'44"N, 7°35'54"W–7°32'56"W	56°51'14"N, 7°34'36"W	2.58	13.65
Fuday	57°2'32"N–57°3'45"N, 7°24'14"W–7°22'16"W	57°3'6"N, 7°23'17"W	2.51	7.74
Barra Head	56°46'40"N–56°47'24"N, 7°39'39"W–7°36'42"W	56°47'6"N, 7°38'12"W	2.23	8.77
Ensay	57°45'4"N–57°46'31"N, 7°5'55"W–7°4'14"W	57°45'48"N, 7°4'58"W	2.08	7.83
Kirkbost	57°32'57"N–57°34'11"N, 7°26'23"W–7°24'7"W	57°33'28"N, 7°25'29"W	2.02	7.26
Killegray	57°43'54"N–57°44'60"N, 7°5'49"W–7°3'28"W	57°44'25"N, 7°4'51"W	2.00	9.27
Ceann Iar	57°31'5"N–57°32'10"N, 7°41'4"W–7°38'23"W	57°31'33"N, 7°39'36"W	2.00	14.60
Garbh Eilean	57°52'45"N–57°54'19"N, 6°22'54"W–6°20'53"W	57°53'44"N, 6°21'38"W	1.65	9.82
Hellisay	57°0'21"N–57°1'10"N, 7°21'50"W–7°19'42"W	57°0'48"N, 7°20'46"W	1.60	8.35
Ceallasaigh Mor–Beag	57°37'12"N–57°38'20"N, 7°11'50"W–7°9'7"W	57°37'49"N, 7°10'20"W	1.55	18.97
Eilean Iubhard	57°59'48"N–58°0'20"N, 6°27'4"W–6°24'44"W	58°0'4"N, 6°25'51"W	1.40	7.45
Mealasta	58°4'18"N–58°5'15"N, 7°8'26"W–7°7'1"W	58°4'47"N, 7°7'36"W	1.40	8.95
Little Bernera	58°15'34"N–58°16'17"N, 6°53'23"W–6°51'25"W	58°15'54"N, 6°52'27"W	1.34	7.54
North Rona	59°7'1"N–59°8'4"N, 5°50'27"W–5°48'43"W	59°7'24"N, 5°49'31"W	1.25	8.96
Soay	57°49'23"N–57°50'4"N, 8°39'1"W–8°37'26"W	57°49'44"N, 8°38'7"W	1.22	5.14
Stromay	57°39'4"N–57°39'54"N, 7°8'58"W–7°7'35"W	57°39'27"N, 7°8'14"W	1.04	7.89

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Name of island	Geolocation	Centroid of island	Area (km <sup>2</sup> )	Coastline (km)
Gighay	57°0'49"N–57°1'36"N, 7°20'52"W–7°19'11"W	57°1'13"N, 7°19'53"W	1.11	6.16
Pabaigh Mor	58°13'41"N–58°14'29"N, 6°57'5"W–6°55'43"W	58°14'5"N, 6°56'24"W	1.04	7.03
Boreray	57°51'47"N–57°52'38"N, 8°30'1"W–8°28'48"W	57°52'11"N, 8°29'23"W	1.02	4.36
Fuaigh Mor	58°12'15"N–58°13'11"N, 6°53'51"W–6°52'38"W	58°12'37"N, 6°53'22"W	0.94	5.55
Fuiay	56°59'28"N–57°0'4"N, 7°22'50"W–7°21'37"W	56°59'47"N, 7°22'10"W	0.89	4.17
Muldoanich	56°54'38"N–56°55'21"N, 7°27'6"W–7°26'8"W	56°55'2"N, 7°26'38"W	0.87	4.46
Hermetray	57°39'0"N–57°39'46"N, 7°3'37"W–7°2'36"W	57°39'22"N, 7°3'4"W	0.85	5.88
Eilean Chearstaidh	58°11'35"N–58°12'24"N, 6°46'41"W–6°45'50"W	58°12'1"N, 6°46'14"W	0.78	3.68
Stockinish	57°48'9"N–57°48'50"N, 6°49'47"W–6°48'25"W	57°48'29"N, 6°49'10"W	0.71	5.32
Eileanan Iasgaich	57°8'30"N–57°8'59"N, 7°19'39"W–7°17'59"W	57°8'39"N, 7°18'24"W	0.65	5.85
Tahay	57°39'30"N–57°40'5"N, 7°6'13"W–7°5'10"W	57°39'46"N, 7°5'40"W	0.63	3.68
Flodaigh Mor	57°29'42"N–57°30'12"N, 7°9'50"W–7°8'37"W	57°29'58"N, 7°9'18"W	0.62	4.62
Shillay	57°31'22"N–57°32'4"N, 7°41'54"W–7°40'48"W	57°31'43"N, 7°41'22"W	0.59	3.77
Soay Mor	57°55'57"N–57°56'37"N, 6°58'25"W–6°57'21"W	57°56'16"N, 6°57'51"W	0.58	4.72
Stuley	57°11'15"N–57°11'44"N, 7°15'22"W–7°14'24"W	57°11'29"N, 7°14'55"W	0.56	3.39
Sgeotasaigh	57°52'15"N–57°52'46"N, 6°45'20"W–6°44'15"W	57°52'32"N, 6°44'50"W	0.55	3.64
Fiaraidh	57°3'46"N–57°4'8"N, 7°27'6"W–7°26'2"W	57°3'57"N, 7°26'36"W	0.47	3.43
Flodday	56°59'36"N–56°59'60"N, 7°21'32"W–7°20'31"W	56°59'47"N, 7°21'1"W	0.46	4.04
Vacsay	58°13'24"N–58°13'55"N, 6°55'23"W–6°54'36"W	58°13'38"N, 6°54'58"W	0.44	5.40
Flodaigh	58°11'22"N–58°11'56"N, 6°56'4"W–6°55'15"W	58°11'38"N, 6°55'38"W	0.42	3.48
Floodday	56°53'28"N–56°54'5"N, 7°34'20"W–7°33'44"W	56°53'48"N, 7°34'3"W	0.38	3.64
Lingeigh	56°52'13"N–56°52'38"N, 7°34'53"W–7°34'19"W	56°52'25"N, 7°34'36"W	0.32	2.32
Fuaigh Beag	58°11'34"N–58°11'59"N, 6°54'12"W–6°53'36"W	58°11'46"N, 6°53'55"W	0.31	2.50
Sibhinis	57°31'6"N–57°31'33"N, 7°38'24"W–7°37'49"W	57°31'19"N, 7°38'7"W	0.30	2.74
Haskeir	57°41'51"N–57°42'15"N, 7°41'32"W–7°40'46"W	57°41'57"N, 7°41'9"W	0.20	3.43
Flodaigh	58°15'53"N–58°16'11"N, 6°54'51"W–6°54'14"W	58°16'2"N, 6°54'30"W	0.18	2.64
Cealasaigh	58°16'11"N–58°16'33"N, 6°52'34"W–6°52'3"W	58°16'22"N, 6°52'17"W	0.15	2.41
Seanna Chnoc	58°16'57"N–58°17'8"N, 6°55'31"W–6°54'55"W	58°17'2"N, 6°55'13"W	0.14	2.11
Sula Sgeir	59°5'33"N–59°5'56"N, 6°9'39"W–6°9'4"W	59°5'44"N, 6°9'22"W	0.12	2.31
Bearasaigh	58°16'30"N–58°16'45"N, 6°54'58"W–6°54'27"W	58°16'37"N, 6°54'44"W	0.12	2.13
Stocaigh	57°31'51"N–57°32'12"N, 7°35'13"W–7°34'44"W	57°32'2"N, 7°34'57"W	0.10	2.60

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Name of island	Geo-location	Centroid of island	Area (km <sup>2</sup> )	Coastline (km)
Campaigh	58°16'37"N–58°16'51"N, 6°52'48"W–6°52'23"W	58°16'44"N, 6°52'36"W	0.10	1.38
Deasker	57°33'48"N–57°33'59"N, 7°36'57"W–7°36'40"W	57°33'54"N, 7°36'48"W	0.08	1.06
Stac an Armin	57°52'43"N–57°52'58"N, 8°29'53"W–8°29'37"W	57°52'49"N, 8°29'46"W	0.08	1.13
Stac Lee	57°51'56"N–57°51'59"N, 8°30'45"W–8°30'27"W	57°51'58"N, 8°30'35"W	0.01	0.63

The dataset was developed based on the Google Earth and related maps and references<sup>[3–7]</sup>. The dataset is consisted of 15 data files and archived in the .kmz and .shp<sup>[8]</sup> data formats with the data size of 27.7 MB (Compressed to 11.7 MB in two files).

## References

- [1] Outer Hebrides [OL]. Encyclopedia Britannica, Encyclopedia Britannica Inc., 16 Nov., 2010. <https://www.britannica.com/place/Outer-Hebrides>.
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## 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/WebCn/doi.aspx?Id=1475>.

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