

Global Change Data Encyclopedia

Babuyan Islands, the Philippines

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The Babuyan Islands is located at the Pacific Ocean, between Babuyan Chanel and Balintang Chanel. It belongs to the Cagayan Valley Region of the Babuyan Province of the Philippines. Its geo-locations is from 19°34'26"N to 18°48'44"N and from 121°11'44"E to 121°59'41"E^[1]. The Babuyan Islands are separated by Balintang Channel from the Balingtang Islands 45.6 km at its northeast, by Babuyan Channel from Luzon Island 28 km (from Fuga Island to Luzon Island) at its south (Figure 1, Figure 2).

The Babuyan Islands includes 5 big islands, Babuyan Island, Calayan Island, Camiguin Island, Fuga Island, and Dalupiri Island. A series of small islands are also included, which are Panuitan Island, Mabag Islan, Barit Island, Pamoctan Island, Irao Island and Pinon Island^[2-4]. Among the islands, the Calayan Island is the biggest one, and its area is 196.34 km². The Camiguin Island lies with the longest coastline 76.95 km. The total area of the Babuyan Islands is 613.40 km², and

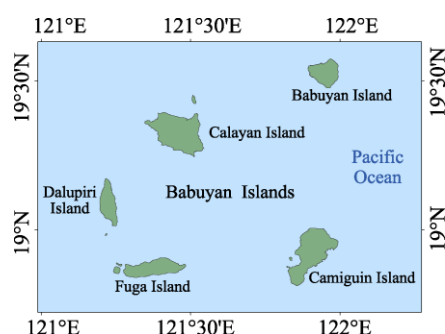


Figure 1 Map of Babuyan Islands dataset (ArcGIS .shp format)



Figure 2 Map of Babuyan Islands dataset (Google Earth .kmz format)

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[2] Liu, C., Shi, R. X., Zhu, Y. Q. Boundary data of the Babuyan Islands [DB/OL]. Global Change Research Data Publishing & Repository, 2016. DOI: 10.3974/geodb.2016.04.02.V1.

the total coastline is 324.77 km (Table 1). The Babuyan Island and the Camiguin Island are located at the Luzon Volcanic Arc. The Babuyan Claro Volcano is located at 19°31'22.96"N, 121°56'29.70"E and Smith Volcano at 19°32'20.81"N, 121°54'50.28"E are located at the Babuyan Island; and the Camiguin de Babuyanes volcano is located at 18°49'56.40"N, 121°51'45.34"E is located at the Camiguin Island.

Table 1 List of main islands in the Babuyan Islands (area and coastline)

Name of islands	Geo-location	Area (km ²)	Coastline (km)
Calayan Island	19°14'39"N–19°23'39"N, 121°20'47"E–121°32'33"E	196.34	74.53
Camiguin Island	18°48'44"N–19°0'14"N, 121°49'34"E–121°59'37"E	170.45	76.95
Fuga Island	18°50'21"N–18°54'22"N, 121°16'28"E–121°29'2"E	96.86	53.10
Babuyan Island	19°28'31"N–19°34'26"N, 121°53'34"E–121°59'41"E	73.53	42.82
Dalupiri Island	19°0'46"N–19°10'20"N, 121°11'44"E–121°15'16"E	66.15	43.82
Barit Island	18°51'10"N–18°52'33"N, 121°14'30"E–121°15'52"E	4.79	8.01
Panuitan Island	19°25'23"N–19°27'8"N, 121°30'14"E–121°31'6"E	2.87	7.97
Mabag Island	18°52'39"N–18°53'21"N, 121°15'3"E–121°16'12"E	1.07	5.73
Pamoctan Island	18°53'46"N–18°54'29"N, 121°49'47"E–121°50'22"E	0.91	3.82
Irao Island	18°58'49"N–18°59'17"N, 121°12'49"E–121°13'11"E	0.32	2.52
Pinon Island	18°52'22"N–18°52'40"N, 121°49'18"E–121°49'28"E	0.08	1.40
Others		0.03	4.10
Babuyan Islands	18°48'44"N–19°34'26"N, 121°11'44"E–121°59'41"E	613.40	324.77

The dataset was developed based on the Google Earth and related maps and references^[5–6]. The dataset is consisted of 15 data files and archived in the .kmz and .shp data formats with the data size of 3.44 MB (Compressed to 1.35 MB in two data files).

References

- [1] Liu, C., Shi, R. X., Zhu, Y. Q. Boundary data of the Babuyan Islands [DB/OL]. Global Change Research Data Publishing & Repository, 2016. DOI:10.3974/geodb.2016.04.02.V1.
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- [5] ESRI. ArcGIS campus license of Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China.
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URL for Data Downloading

<http://www.geodoi.ac.cn/WebEn/doi.aspx?Id=412>.

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