



English



## Inquiry about sightseeing tour

■ Sakurajima Ferry Terminal Tourist Information.....	TEL: 099-293-4333
■ Tourism Exchange Center.....	TEL: 099-298-5111
■ Sakurajima Ferry (Kagoshima City Ship Station).....	TEL: 099-293-2525
■ Kagoshima Chuo Station Tourist Information Center.....	TEL: 099-253-2500
■ Tenmachi Salon.....	TEL: 099-213-9574
■ Kagoshima Sightseeing Guide Station.....	TEL: 099-208-4701
■ General Information Call Center San-San-Call Kagoshima..	TEL: 099-808-3333

## Transportation at Sakurajima

### ◎ Local bus

- Sakurajima Island View Bus
- Kagoshima City Bus #60 (To Sakurajima Hospital / Higashi-Shirahama)
- Kagoshima City Bus #70 (from Higashi-Shirahama to Kurokami-Guchi)  
\*Please take this bus to go to Kurokami Buried Shrine Gate  
Ticket Station of Kagoshima City Bus at first floor of  
Sakurajima ferry terminal..... TEL: 099-293-4220
- Sanshu Jidosha (To Sakurajima-guchi / Tarumizu Port).... TEL: 0994-65-2258

### ◎ Sightseeing Taxi (Sakurajima Port)

- Sakurajima Kanko Taxi..... TEL: 099-293-2489

### ◎ Bicycle Rental / Car Rental (Sakurajima Port)

- Sakurajima Car Rental..... TEL: 099-293-2162

## Accommodation of Sakurajima

■ Rainbow Sakurajima Inn.....	TEL: 099-293-2323
■ Sakurajima Hotel.....	TEL: 099-221-2311
■ Sakurajima Seaside Hotel.....	TEL: 099-221-2121
■ Sakurajima Youth Hostel.....	TEL: 099-293-2150

"Sakurajima-Kinkowan Geopark (Official website)

<http://www.sakurajima-kinkowan-geo.jp/en/>

Yokatoko Kagoshima Navi (Official Tourism Website of Kagoshima City)

<http://www.kagoshima-yokanavi.jp/>

Minnano Sakurajima (Sakurajima Sightseeing Portal Website)

<http://www.sakurajima.gr.jp/>

### [Contact]

Sakurajima-Kinkowan Geopark Promotion Council Office  
(Geopark Promotion Office, Kagoshima City Hall)

11-1 Yamashita-Cho, Kagoshima City, 892-8677

TEL : 099-216-1313 FAX : 099-216-1320

Made in Mar. 2017

# Adventure Book of Volcano and Sea

Sakurajima-Kinkowan Geopark Guide Map

## 1 Terayama Park

At the park you can see the great view of Sakurajima and Aira-Caldera (the inner part of Kinko-Bay). You will also see a volcanic alluvial fan on the northwest slope of Sakurajima.

■ Access: About 35 min by car from Kagoshima Chuo Station  
TEL: 099-216-1366 Parking: 10 vehicles



## 2 Haragosha Shrine

This is a shrine in Uenohara (Yoshino-cho) made by the people of Kurokami Village when they settled there after the Annei Eruption. It is said that they transferred the god of Kurokami Shrine to Haragosha Shrine. The suffering of the people at that time is described in the stone monument.

■ Access: About 30 min by car from Kagoshima Chuo Station  
No Parking



## 3 Sengan-en

The Japanese garden of the Shimazu family villa; a garden that makes use of Sakurajima and Kinko Bay in the landscape. The reverberation furnace here utilizes volcanic materials. It has cultural properties that are a part of the World Heritage "Sites of Japan's Meiji Industrial Revolution".

■ Get off at the "Sengan-en-mae (Iso Teien Mae)" stop of Kagoshima City View Bus.  
TEL: 099-247-1551 Fee: Adults 1,000 yen / Children 500 yen  
Open: Everyday Hours: 8:30-17:30 Parking: 500 vehicles (300 yen for cars)



## 4 Ishibashi Memorial Park

This park was founded as a memorial to the 3 bridges (part of the initial 5 stone bridges of the Kotsuki River) that survived water damage and were relocated and reconstructed at the end of the Edo period. The stone bridges are partially made from volcanic materials.

■ Access: Get off at "Ishibashi Kinen Koen Mae" stop of Kagoshima City View Bus.  
TEL: 099-248-6661 Fee: Free  
Closed: Every Monday (The Following weekday if it's a public holiday), and Dec.31. Parking: Available



## 5 Shiroyama

An ideal spot for viewing Sakurajima and the business district of Kagoshima City. A castle made from Shirasu-Daichi (a pyroclastic plateau in Kyushu, rarely found even in Japan) was built here.

■ Access: Get off at "Shiroyama" stop of Shiroyama-Iso course, Kagoshima City View Bus.  
TEL: 099-298-5111 (Tourism Exchange Center) Parking: 42 vehicles



## 6 Greening the track way of the city tram

Lawn is laid under the tracks of the city tram to vegetate the land and to defuse the heat island phenomenon (total extension is 8.9km). The blocks made of Shirasu are used as the base for growing lawn. We can see how people in Kagoshima utilize the materials from the volcanic eruptions.

■ Place: The city tram between Kagoshima Station to Namida-bashi Station



## A Kagoshima City Aquarium

You can see whale shark, and ray swimming leisurely in the aquatic tank. It is definitely worth seeing. There are also exhibitions of rare creatures such as Satsumahaorimushi.

■ Access: Get off at "Kagoshima-Suizokukan Mae" stop of Kagoshima City View bus.  
TEL: 099-226-2233 Hours: 9:30-18:00 (Please enter before 17:00)  
Closed: first Monday in Dec. and the following 4 days  
Parking: 500 vehicles (free for 1 hour, 200 yen is added every hour after that)



## B Kagoshima Prefectural Museum

There are lots of exhibitions related to the nature of Kagoshima, such as Sakurajima and Kinko-Bay.

■ Access: 5-min walk from "Saigo-Dojo-Mae" stop of Kagoshima City View bus.  
TEL: 099-223-6050 Fee: Free  
Hours: 9:00-17:00 (Please enter before 16:30)  
Closed: Mondays (The following weekdays if it's a public holiday), every 25th (The 4th Tuesday if it's Saturday or Sunday), and Dec. 31 to Jan. 2. No Parking



## C The Kagoshima University Museum

Academic resources stored in Kagoshima University are exhibited. There are many geoscience samples such as the stratum of "Satsuma Tephra", fossils and minerals found in Kagoshima.

■ Access: 5-min walk from "Toso" Station of Kagoshima City Tram.  
TEL: 099-285-7259 Fee: Free  
Hours: 10:00-17:00 (Please enter before 16:30)  
Closed: Sun, Mon, public holidays and the New Year period. There may also be other extraordinary closure periods.



## D Kagoshima Municipal Science Hall

Enjoyable for both children and adults. There are also exhibitions of Sakurajima.

■ Access: About 10 min walk from "Kamoike Dentei" or "Korimoto Dentei" of Kagoshima City Tram.  
TEL: 099-250-8511 Fee: Adults 400 yen / Children 150 yen  
Hours: 10:00-18:00 (Please enter before 17:30)  
Closed: Tuesdays (The following weekdays if it's a public holiday), Dec. 29 to Jan. 1  
Parking: 364 vehicles (Free for 3 hours at "Parking area of Kamoike Park" next to Kagoshima Municipal Science Hall)



## 7 Sakurajima Visitor Center

Here you can have an explanation of nature and historical eruption of Sakurajima. Sakurajima Visitor Center is a base facility of Sakurajima-Kinkowan Geopark. You can also receive tourist information about Sakurajima here.

■ Access: About 10 min walk from Sakurajima Port  
TEL: 099-293-2443 Fee: Free Open: Everyday Hours: 9:00-17:00  
Parking: 10 vehicles



## 8 Tsukiyomi Shrine

The biggest shrine in Sakurajima, which face to the mountain. It was once buried under Taisho lava, but rebuilt and placed in its current location in 1940.

■ Access: About 2 min walk from Sakurajima Port  
TEL: 099-293-2109 Parking: 20 vehicles



## 9 Yogan Nagisa Trail

On this trail you can see Taisho lava and its vegetation. The trail to Karasujima Observatory is 3km from "Sakurajima" Yogan Nagisa Park.

■ Access: About 10 min walk from Sakurajima Port  
TEL: 099-298-5111 (Tourism Exchange Center)  
Parking: 20 vehicles Fee: Free Opening hours: Every time



## 10 Karasujima Observatory

Karasujima once located in the sea was buried under Taisho Lava. Since then plants grew naturally on the lava and vegetated island was made.

■ Access: About 25 min walk / 4 min drive from Sakurajima Port  
TEL: 099-298-5111 (Tourism Exchange Center) Parking: 20 vehicles  
Fee: Free Opening hours: Every time



## 11 Yunohira Observatory

The highest observation point accessible to the public on Sakurajima (373m above sea level). The view is impactful.

■ Access: About 15 min drive from Sakurajima Port  
TEL: 099-221-2019 (Tourism Exchange Center) Fee: Free Hours: 9:30-17:00 Parking: 30 vehicles



## E Sakurajima International Volcanic Sabo Center

Here you can learn about landslides and Sabo. (debris flow control)

■ Access: About 6 min drive from Sakurajima Port  
Week days 099-221-2019 (Sakurajima Sabo Branch), Holidays 099-221-2030 Fee: Free  
Hours: 9:30-17:00 (Please enter before 16:30)  
Closed: Dec. 29 to Jan. 3 Parking: 20 vehicles



## F Rainbow Sakurajima Inn, Magma Onsen

There are attractions such as brown colored hot spring wells as deep as 1,000m, dishes cooked with the local ingredients.

■ Access: About 8 min walk from Sakurajima Port  
TEL: 099-293-2323 Fee: Adult 390yen / Child 150yen  
Hours of Magma Hot Spring: 10:00-22:00 (Wednesdays 13:00-22:00)  
Hours of Rainbow Sakurajima Inn: Check in 15:00 / Check out 10:00  
Open: Every day Parking: 60 vehicles



## G Rainbow Beach

Artificial beach next to Rainbow Sakurajima Inn. Children can enjoy swimming at the calm sea.

■ Access: About 8 min walk from Sakurajima Port  
TEL: 099-298-5111 (Tourism Exchange Center)  
Hours: 10:00-18:00 (the beach opens from middle of Jul. to end of Aug.)  
Parking: Available



## H "Sakurajima" Yogan Nagisa Park Footbath

With a length of approximately of 100m it is Japan's top foot bath. You can enjoy bathing your feet in the natural hot spring water while drinking in the views of Sakurajima and Kagoshima City. No charge.

■ Access: About 10 min walk from Sakurajima Port  
TEL: 099-298-5111 (Tourism Exchange Center) Hours: 9:00-Sunset  
Open: Every Time Parking 100 vehicles (Including parking area around foot spa.)



## I Hinoshima Megumikan Rest Stop

Here you can get a wide variety of Sakurajima souvenirs. There are many products made of local vegetables and specialties. You can also eat local dishes.

■ Access: About 5 min walk from Sakurajima Port  
TEL: 099-245-2011 Hours of product shop: 9:00-18:00  
Hours of restaurant: 9:00-17:00 Closed: 3rd Mondays (Following weekdays if it's a national holiday) Parking: 89 vehicles



## J Akamizu Observatory Square

You can enjoy a great view of Taisho lava and Kinko-Bay below. There is also a memorial monument of the "Sakurajima all-night concert".

■ Access: About 4 min drive from Sakurajima Port  
TEL: 099-298-5111 (Tourism Exchange Center) Hours: 8:30-17:00  
Open: Every time Parking: 20 vehicles



## K Sakurajima Dinosaur Park

There are seven huge dinosaur statues here, which are very popular among children. There is also 50m-long slide.

■ Access: About 9 min walk / 2 min drive from Sakurajima Port  
Fee: Free Open: Every time





## 12 Farm of Sakurajima mini mandarin

The small and sweet “Sakurajima mini mandarin” is unique to the environment of Sakurajima and its volcanic alluvial fan made by the debris flood. These characteristic mandarins are able to grow thanks to the good drainage brought about by the environment and landscape. Harvest time: Dec. to Jan.



## 13 Farm of Sakurajima radish

Sakurajima Radish is listed in the Guinness Book of World Records as the heaviest radish in the world. It grows in the farms that use soil mixed with volcanic stones. Harvest time: Jan. to Feb.



## 14 Tagiri (Volcanic hydrothermal activity)

Local fishers call volcanic hydrothermal activity as “tagiri” which means as “boiling” in Japanese. The area is unique because we are able to see volcanic gases rise up from the bottom of the sea to the surface. It is also the place where rare creature named Satsumahaorimushi live.



## 15 Shinjima

The island elevated from the bottom of the sea through the Annei Eruption in Edo era. The surrounding islands were formed by lava that elevated to the surface. There are layers of fossil shells of around 5,000 years ago.



## 16 Kurokami Viewing Spot

The observatory of Showa Lava area. Kurokami Viewing Spot, is the best location to observe the Showa Lava and the Showa Crater. You may also see Sabo facilities.

■ Access: About 30 min drive from Sakurajima Port.  
No parking



## 17 Kurokami Buried Shrine Gate

Here you can see the shrine gate buried 2m in depth by Taisho Eruption. You will see the Shinto shrine after you enter the gate. The surrounding forest is the oldest forest in Sakurajima. You may also see the unique chinquapin trees that revived after they were buried by the eruption.

■ Access: About 30 min drive from Sakurajima Port.  
TEL: 099-298-5111 (Tourism Exchange Center) Parking: 7 vehicles



## 18 Sakurajima-guchi

The spot that connects Sakurajima to the mainland. The former island was connected because of the Taisho Lava. You may recognize the different vegetation between Osumi peninsula and the area of Iava. In the Edo era, the first western battleship in Japan was built in here, Seto village, now buried by lava.

■ Access: About 20 min drive from Sakurajima Port. Parking: Available



## 19 Arimura Lava Observatory

Here you can see Taisho Lava and Showa Lava at the same time. The different types of vegetation in each lava is also worth seeing. You may also see the lava dome of Sakkabira and Shirasu tableland.

■ Access: About 20 min drive from Sakurajima Port.  
TEL: 099-298-5111 (Tourism Exchange Center) Parking: 15 vehicles



## 20 Higashisakurajima elementary school / Sakurajima eruption monument

Here you can read writing about the Taisho Eruption such as warning signs of eruption and the descriptions of the disaster. There are also instructions on necessary preparations for an eruption on the monument. The phrase “Residents must not believe what the scientific theory says” is famous among people in Sakurajima. Therefore, the monument is also called the “science failure monument”.

■ Access: About 10 min drive from Sakurajima Port. No Parking



## L Furusato Onsen Resort

A hot spring in the Southern part of Sakurajima facing Kinko-Bay. You can enjoy the great view while taking a bath in the hot spring.

■ Access: About 15 min drive from Sakurajima Port  
Fee, Hours: Please contact to facilities below;  
Sakurajima Seaside Hotel (TEL: 099-221-2121)  
Sakurajima Hotel (TEL: 099-221-2311)



## M Fumiko Hayashi Literary Monument

Fumiko Hayashi is a female novelist who is known for “Horoki” or “Ukigumo”. Her mother is from Sakurajima; the monument is built the place where Fumiko is legally domiciled.

■ Access: About 15 min drive from Sakurajima Port  
TEL: 099-293-4126 Fee: Adult 390yen / Child 150yen Hours: 10:00-21:00 Closed: every 10th (The following weekdays if it's Saturday, Sunday, or national holidays.) Parking: 54 vehicles



## N Sakurajima Shirahama Onsen Center

A popular hot spring at the bottom of Sakurajima North Peak. It has saunas and outside-baths. The source of this popular hot spring wells up from 1000m underground.

■ Access: About 12 min drive from Sakurajima Port.  
TEL 099-293-4126 Fee: Adult 390yen / Child 150yen Hours: 10:00-21:00 Closed: every 10th (The following weekdays if it's Saturday, Sunday, or national holidays.) Parking: 54 vehicles



## Sakurajima Island View Bus

The Sakurajima Island View Bus does a 60 minute round trip around the western sight-seeing areas, including Sakurajima Ferry Terminal and Yunohira Observatory. On the way, the bus stops for a while at major sightseeing spots so that you can enjoy sightseeing effectively.

\*One-day pass is available in the bus.

Fare (depends on the distance)	One-day pass (all day use)
Adults . . . 120-440 yen Children . . 60-220 yen	Adults . . . . . 500 yen Children . . . . 250 yen

\*One-day pass is recommended if you go to Yunohira Observatory.

### Sakurajima Island View Bus timetable

\*Stops 5 min at Karasujima Observatory, 8 min at Akamizu View Park, 15 min at Yunohira Observatory. Please pay when you get off the bus.

Bus stop	1st	2nd	3rd	4th	5th	6th	7th	8th
① Dept. Sakurajima Port	9 : 00	10 : 05	11 : 10	12 : 15	13 : 20	14 : 25	15 : 30	16 : 35
② Hinoshima Megumikan	9 : 01	10 : 06	11 : 11	12 : 16	13 : 21	14 : 26	15 : 31	16 : 36
③ Sakurajima Rainbow Inn	9 : 02	10 : 07	11 : 12	12 : 17	13 : 22	14 : 27	15 : 32	16 : 37
④ Visitor Center	9 : 03	10 : 08	11 : 13	12 : 18	13 : 23	14 : 28	15 : 33	16 : 38
⑤ Ar. Karasujima Observatory	9 : 05	10 : 10	11 : 15	12 : 20	13 : 25	14 : 30	15 : 35	16 : 40
Dept. Karasujima Observatory	9 : 10	10 : 15	11 : 20	12 : 25	13 : 30	14 : 35	15 : 40	16 : 45
⑥ Ar. Akamizu View Park	9 : 12	10 : 17	11 : 22	12 : 27	13 : 32	14 : 37	15 : 42	16 : 47
Dept. Akamizu View Park	9 : 20	10 : 25	11 : 30	12 : 35	13 : 40	14 : 45	15 : 50	16 : 55
⑦ Akamizu Yunohira-kuchi	9 : 23	10 : 28	11 : 33	12 : 38	13 : 43	14 : 48	15 : 53	16 : 58
⑧ Ar. Yunohira Observatory	9 : 35	10 : 40	11 : 45	12 : 50	13 : 55	15 : 00	16 : 05	17 : 10
Dept. Yunohira Observatory	9 : 50	10 : 55	12 : 00	13 : 05	14 : 10	15 : 15	16 : 20	17 : 25
⑨ Oshu Elementary School	9 : 58	11 : 03	12 : 08	13 : 13	14 : 18	15 : 23	16 : 28	17 : 33
⑩ Ar. Sakurajima Port	10 : 00	11 : 05	12 : 10	13 : 15	14 : 20	15 : 25	16 : 30	17 : 35

Contact about Sakurajima Island View Bus

■ Kagoshima City Transportation Operations Section 099-257-2117  
■ Kagoshima City Transportation Sakurajima office 099-293-4220

## Sakurajima Regular Sightseeing Bus

Course	Dept. place	Start	Route [Sightseeing stops]	End	Time	Fare
Sakurajima Nature Sight seeing Course	Kagoshima Chuo Station East-8	8 : 55 (Sakurajima Port Dept. 9:40)	Kagoshima Chuo Sta.→Napol-dori St.→Waterfront→[Sakurajima Ferry]→Sakurajima Port→[Yunohira Observatory]→Fujino Ako grove→[Kurokami Buried Shrine Gate]→[Tabino Sato]→[Arimura Lava Observatory]→Fumiko Hayashi Literary Monument→Sakurajima Port→[Sakurajima Ferry]→Sakurajima Port, Kinseicho, Tenmonkan (Passengers can get off)→Kagoshima Chuo Sta.	12 : 35 (Sakurajima Port Ar. 11:50)	3h 40min	Adults 2,300 yen
		13 : 40 (Sakurajima Port Dept. 14:30)		17 : 20 (Sakurajima Port Ar. 16:40)	2h 10min	Children 1,200 yen

Contact From Sakurajima Port Adults 1,800yen Children 850yen

■ Kagoshima Chuo Station Tourists Information Center 099-253-2500  
■ Kagoshima City Transportation Operation Section 099-257-2111

Course	Dept. place	Start	Route [Sightseeing stops]	End	Time	Fare
Kagoshima City / Sakurajima Tour	Kagoshima Chuo Station East-9	8 : 50	Kagoshima Chuo Sta.→Terukuni Shrine→Statue of Takamori Saigo→[Shiroyama Observatory]→Saigo Cave→Sakurajima Port (Sakurajima Ferry)→Kurokami Buried Shrine Gate→Taisyo Lava→[Arimura Observatory]→[Yunohira Observatory]→Sakurajima Port (Sakurajima Ferry)→[Sengan-en (lunch, souvenir, walking in the garden)]→[Museum of Meiji Restoration]→Kagoshima Chuo Sta.	15 : 25	6h 35min	Adults 4,110 yen Children 2,060 yen
		9 : 20 13 : 30	Kagoshima Chuo Sta.→Terukuni Shrine→Statue of Takamori Saigo→[Shiroyama Observatory]→Saigo Cave→Sakurajima Port (Sakurajima Ferry)→Sakurajima Port→[Yunohira Observatory]→Sakurajima Port (Sakurajima Ferry)→[Sengan-en]→Kagoshima Chuo Sta.	13 : 15 17 : 25	3h 55min	Adults 2,780 yen Children 1,390 yen

Contact (You can also get on at Kagoshima Sun Royal Hotel (reservation required), Takamibaba, Tenmonkan, Terukuni Shrine, and Shiroyama Kanko hotel mae.)

■ Kagoshima Chuo Station Tourists Information Center 099-253-2500  
■ JR Kyushu Bus 099-247-5244







Authorized as Japanese National Geopark

# SAKURAJIMA - KINKOWAN GEO PARK

Geopark is a "park of the Earth". The earth is like a big park where we can enjoy the stories of relationship between the Earth and human beings from the past to the future! With mountains, oceans, and forests, there are many natural attractions that have been created over millions of years.

There are many ways to enjoy our "Sakurajima-Kinkowan Geopark". You can enjoy the incredible scenery, tours, events, activities, and local products. Let's play hard and study hard at Sakurajima and Kinko-Bay!

Don't miss it!  
"Sakurajima-Kinkowan Geopark"  
- The relationship between volcano and people -

## 1 The volcano and people are coexisting!

How amazing that 600,000 people live alongside the active Sakurajima volcano that actively erupts on a daily basis. Disaster prevention measures are taken using the world's best high tech volcanic monitoring system. This enables many people to live near the erupting volcano. Kagoshima is a unique place where active volcano and urban city coexist.



## SAKURAJIMA - KINKOWAN GEO PARK

## The sea made by the volcano!

2

Kinko-Bay expanding in front of Sakurajima was actually made by the volcano. About 30,000 years ago, a large amount of magma was released after a huge eruption occurred in the inner side of Kinko-Bay. This caused the land to become empty and dented. The dented area is called the "Aira-Caldera". The 200m deep Kinko-Bay was created after the seawater entered in.

## 3 The eruption of Sakurajima

The history of Sakurajima is said to be the history of eruptions. There have been 17 huge eruptions up until today. Sakurajima's volcanic activity can be divided into 2 periods. The North Peak was active from 26,000 years ago when Sakurajima was born until 5,000 years ago and the South Peak has been active since about 4,500 years ago. It is because of these two volcanoes, the North Peak and the South Peak are lined in a row, that Sakurajima looks so wide.

The biggest eruption in the history of Sakurajima occurred about 13,000 years ago. The eruption covered Kagoshima city with ash as deep as 1m and the whole of Kagoshima prefecture was covered with at least 10cm of ash. Another huge eruption that changed the shape of Sakurajima occurred in 1914. The lava that erupted out connected the former island of Sakurajima to Osumi peninsula. Kurokami Buried Shrine Gate and Karasujima Observatory tells us how extraordinarily huge that eruption was.

## Watching life in Kagoshima

4

The residents of Kagoshima do not care about the eruptions. They are used to the eruptions because Sakurajima erupts over eight hundred times each year. Because the people of Kagoshima have coexisted with the volcano for many years, emergency drills are well constructed.

You may find ways residents have worked to coexist with the volcano through looking at their daily lives. For example, there are yellow "Kokuhai Bukuro" bags for collecting volcanic ashes in Kagoshima. Also, students in Sakurajima wear helmets to protect their heads from volcanic debris.

5

## You can experience Sakurajima and Kinko-Bay!

"Sakurajima-Kinkowan Geopark" has many Geo-Sites where you can play and learn about the land and its long volcanic history. Find out how the people lived with the volcano by learning about the products and historical sites of the land related to the volcano. You can also enjoy exciting activities, the local products, foods and so on. Where would you like to begin with?





## Relation with the landscape and geology

About 29,000 years ago in Kagoshima, there was a huge eruption that was a million times bigger than the eruptions we currently see at Sakurajima. Kagoshima was covered with magma that was as deep as 60m. The large amount of magma that jetted out caused the land to sink, creating an "Aira-Caldera". Kagoshima was covered with a mixture of volcanic stone, ash, and gas that was combined under a heat of 600 degrees, a phenomenon called pyroclastic flow. This covered the mountains and valleys of Kagoshima, making it into flat land within a week. The "Shirasu tableland" was later created through the rivers that carved out the land.

Sakurajima's first eruption started about 26,000 years ago in the southern part of the caldera. Sakurajima grew with each repeated eruption and formed the Kita-Dake (North Peak). With time, the crater's position moved to the South and made Minami-Dake (South Peak) creating the second volcanic body on Sakurajima. Kagoshima's "Shirasu tableland" where we stand today, Sakurajima, and Kinko-Bay are all connected to the huge eruption that took place many years ago.

### Kinko-Bay used to be a caldera!



Kinko-Bay is a landscape created from the land that was dented through the huge repeated eruptions that took place thousands of years ago. Volcanoes are not only mountains but also take the form of a dented volcano, known as caldera.

## Trivia

### 1 The spot to experience the power of the volcano!

Looking down the Aira-Caldera from the Terayama-park observatory spot, you will notice a huge dented area at the far end of Kinko-Bay. This is the caldera. Experience the great power of the volcano while having a great view of Sakurajima!



### 2

### Check the surface of mountain!

The old Kita-Dake is rough compared to the new Minami-Dake whose surface is much smoother. The Showa-Crater (located in the Eastern steep of Minami-Dake) is covered by eruptions from new eruptions, so that its surface is still smooth.



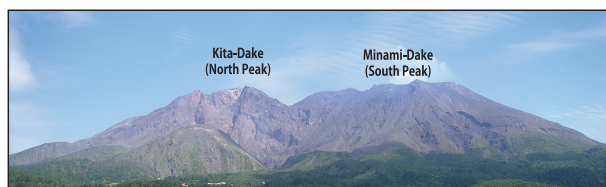
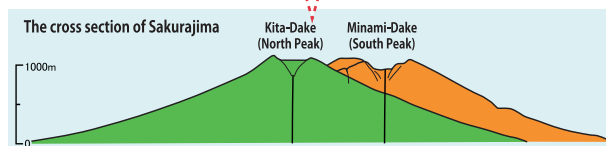
The ground of Kagoshima was made by a huge eruption!

### Shirasu tableland is not Sakurajima's volcanic ash!



It is often mistaken that Shirasu tableland is made up of ash from Sakurajima, which fell down for millions of years. However, Shirasu tableland was made within a week by Aira-Caldera's huge eruption.

### Sakurajima is made of 2 volcanos!



Although Sakurajima looks like one mountain, it is actually combined of two volcanoes, Kita-Dake and Minami-Dake! Kita-Dake was active from the birth of Sakurajima which is about 26,000 years ago until about 5,000 years ago. Later on, crater moved to the South, and its volcanic activity started about 4,500 years ago and still continues today. These two mountains that range from north to south make up Sakurajima. This is why Sakurajima looks wide from Kagoshima city.



**Mini museum of volcano!**  
When you come to Sakurajima, please come here at first!

**Sakurajima Visitor Center**  
Open 365 days a year, 9:00-17:00  
Contact 099-293-2443

Science is getting more interested,  
You will like Kagoshima more

**Kagoshima Municipal Science Hall**

[Time] 9:30-18:00 (Please enter until 17:30) [Closed] Every Tuesdays (Following weekdays if it's a national holiday), Dec. 29 to Jan. 1 [Fee] High school students and above: 400 yen / Elementary and Junior high school students: 150 yen [Address] 2-31-18 Kamoiike, Kagoshima City [Phone] 099-250-8511



**Look at the vitality of plant species! Sakurajima is a natural museum!**

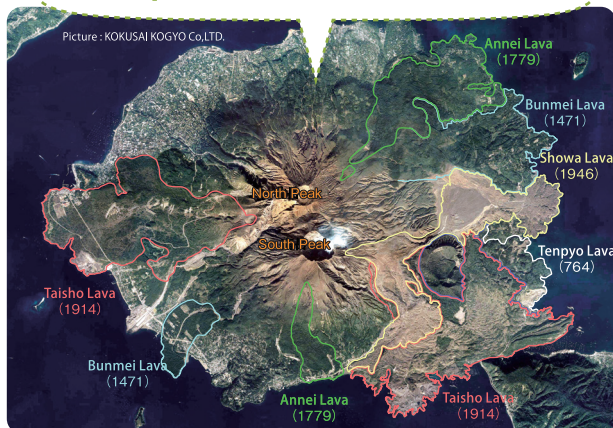


## Relationship with nature

Plant species cannot live under severe volcanic environment? No, there are Japanese pampas grass and Japanese knotweed near the crater and they are strong against volcanic gases. A little further from the crater, there are Eurya Japonica and Alnus firma. In the area furthest from the crater, Machilus thunbergii and Japanese black pine can be seen.

With each new eruption, the plants on the ground are covered with lava, and the ground is filled with rocks, but each time plants grow back. At first, Mosses and Lichens start to grow, and then a meadow will form. Intolerant trees such as the Japanese black pine follow. Then, shade trees such as Machilus thunbergii will come out. In this way, the volcanic ground becomes a forest in over many years. Sakurajima is a "natural museum", because we can see the changes that occurred while the forest was forming by observing the varieties of lava that were made through out the different eras.

### Plant species are alive even near the crater!



There are few plants on new lava such as Showa or Taisho Lava, and rich forest can be seen on old lava such as Annei or Bunmei Lava.

### Trivia

#### Watching plant species of three generations!

Arimura-seashore has lava of 3 eras. Annei(1779), Taisho(1914), and Showa (1946). Find out the difference between the old lava, which is covered by trees, and the new lava with Japanese black pine and a surface of volcanic rocks!



**Full of wonderfulness in deep sea made by the volcano!**



## Relationship with the sea

There is full of wonderfulness in Kinko-Bay, because it's made by volcano! The 200m deep sea is a dented area which was made by huge eruption occurred in 300 million years ago. There is a small submarine caldera called "Wakamiko Caldera" in inner side of Kinko-Bay which erupts volcanic gas in underground. The volcanic gas floating on the surface called "Tagiri (it means boiling in Japanese)" shows the existing of submarine caldera.

Also, there are dolphins, many fishes for about 1000 species, and rare creatures such as Satsumahaorimushi in Kinko-bay. Chimney (the injection hole of hot water) and rare metals are also found in bottom of the sea.

### Dolphins of Kinko-Bay are greedy!?



Despite their cute faces, dolphins need a lot of food every day, Kinko-Bay is a rich ocean that dolphins can live bounding with energy.



Running for 24 hours with its safety

**Sakurajima Ferry**

Kagoshima Port ⇄ Sakurajima Port  
(about 15 min)

Contact

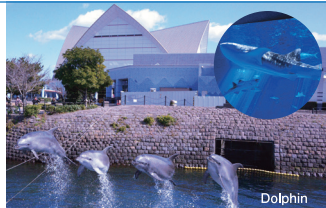
Kagoshima City Ship Department Operations  
Division 099 (293) 2525  
61-4 Yokoyama-Cho, Kagoshima city, 891-1419  
<http://www.city.kagoshima.lg.jp/sakurajima-ferry/>

Meet the whale shark!

**Kagoshima City Aquarium**

3-1 Honkoshinmachi, Kagoshima City  
TEL: 099-226-2233

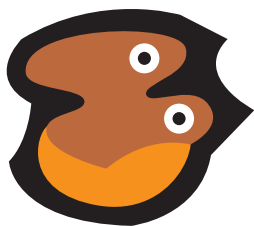
Time: 9:30-18:00 (Please enter before 17:00)(Closed) 4 days following the 1st Monday of December [Admission] Adults (high school students and above): 1,500 yen  
Elementary and junior high school students 750 yen, Children over 4 years old 350 yen



Dolphin waterway



**Blessing of the volcano and the sea!**



## Relationship with industry

There are many treasures utilizing blessing of the volcano and the sea in Sakurajima. For example, Sakurajima mini mandarin utilize good drainage of volcanic geology, grow on the sunny slope with sunshine reflected by Kinko-Bay.

There are also pottery used volcanic ash, ash-dried-fish, glass product or cosmetics using Shirasu, and grilled meat plate made by lava. The hot springs with the best in Japan for its number in capital city is absolutely a blessing of volcano. The people in Kagoshima is strong enough to change "disliked" volcanic ash to the industry.

### Changing "disliked" ash into industry!



Shirasu, a product of volcanic eruptions, is used as the base for the vegetation along the tramways.

## View Spots

The sunset and Sakurajima Ferry.



The night view from Yunohira Observatory



**People lived alongside of volcano from Jomon Period! (\*1)**



## Relationship with history and culture

The history of Kagoshima cannot be described without the volcano.

Remains of ash in the garbage of people in the Jomon Period shows that they lived with the volcano between 3,000 and 16,500 years ago. Even the ruins are buried under a flood of debris, the people continued to live under this volcanic environment because there were more blessing than disaster.

Also, the stone culture of Kagoshima owes to the volcano. Ignimbrite, made by volcanic eruptions, is softer than other stones and it is good for processing. There are many historical buildings such as machine shop of Shuseikan(\*2) and the stone bridge are made of volcanic ignimbrite stones.

### The Castle of Satsuma is Shirasu Tableland!



Kagoshima Castle, where the Feudal Lord Shimazu lived, consisted of the Shirasu-base Ueyama-jo(on Shiroyama), and his castle at the bottom of the mountain.

(\*1) More than 3,000 years ago (\*2) The place casted artillery and ships during Edo era.

### Access to "Kurokami Buried Shrine Gate"

#### Local bus

- You cannot go to Kurokami Buried Shrine Gate by Sakurajima Island View Bus.
- You'd better buy One-day Pass for these routes.

#### (Route 1) Transfer at "Higashi Shirahama"

1. Take Kagoshima city bus #60  
From "Sakurajima Port" to "Higashi Shirahama" (about 20 min)
2. At Higashi Shirahama  
Take Kagoshima city bus #70  
From "Higashi Shirahama" to "Kurokami chugakko mae" (about 20 min)

#### (Route 2) Direct

Take Kagoshima city bus #60  
From "Sakurajima Port" to "Kurokami Chugakko mae" (about 35 min)

#### Car or taxi

About 20km from Sakurajima Port (about 30 min)



## We Can Live Alongside the Volcanic Ashes!



### Relationship with the people

Life in Kagoshima takes place besides active volcano, Sakurajima. The Annei eruption that occurred during Edo era brought people from Kurokami to settle in Uenohara. From Uenohara, they were able to see the beautiful scenery of their hometown, Sakurajima.

Also the disaster heritage "Kurokami Buried Shrine Gate", which was buried 2m deep in a single day, remains buried in memory of the disaster. The gate is now located inside Kurokami junior high school. For half a century, people in Kagoshima have lived with the falling ash, using their wisdom and well-constructed lifestyle to live alongside the volcano.

### Kagoshima's high quality service!

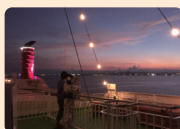


People have accepted a life with volcanic ash, and have found a way of coexisting with it. For example, the road sweepers clean volcanic ash on the streets; the public storage collects volcanic ash after cleaning up; weather forecast tells the direction of wind so that people know the current of volcanic ash, and there are even disaster warnings for eruptions.

This yellow plastic bag is for collecting volcanic ash.

### Event

- Sakurajima radish competition (late Jan. to early Feb.)
- Kagoshima Marathon (early March)
- Running Sakurajima Event (early Dec.)
- Sakurajima Hinoshima Island Festival (late Jul.)
- Summer night cruise Sakurajima (Aug.)
- Sakurajima Kinko-Bay Long-Distance Swimming Tournament (mid Jul.)
- Kagoshima Kinko-Bay summer night fireworks (late Aug.)



For more information, San San Call Kagoshima TEL 099-808-3333

## Fun to know! 【The rules of Sakurajima】

The people in Kagoshima and Sakurajima follow these "rules" in their daily life. Take a look at these "rules" that will help you enjoy Sakurajima-Kinkowan Geopark safely. These are for anyone, from first-time visitors to frequent guests.

### 【No.1】 Don't run away when the eruption occurs.

People can enjoy sightseeing even Sakurajima erupts on a daily basis. You may understand this by looking local residents are living at the bottom of Sakurajima where the eruptions occur hundreds times a year.

The area within 2km of Sakurajima's crater is a no-entry zone. Tourist spots are all at least 2.5km away from the crater so you can sightsee without need for concern.



### 【No.2】 Don't be surprised if you hit by volcanic ash.



You won't be painful or injured by hitting volcanic ash because those are tiny particles which are less than 2mm. However, be careful if you wear the contact lens because it's hurt when the volcanic ash got into the eyes. Don't be afraid when the ash entered mouth because the research and exploration show that volcanic ash of Sakurajima do not make damage on human body.

### 【No.3】 Let ash pass by if you want to keep it clean.

People in Kagoshima brush off volcanic ash when it fell on their clothes. However, have a break under the roof until the ash stop falling if you care about getting dirty. If you do not want to get dirty, then there is nothing you need to do. The time of volcanic ash fall is from some minutes to ten minutes. The place under the roof, inside building are recommended place to wait until volcanic ash pass by.



### 【No.4】 Don't overdo it when you face "doka bai"

("doka bai" means "extremely huge amount of ash" in Japanese)



When the ash fall during your car drive, please slowdown or stop the car and wait for finishing fall just like heavy rain.

However, as volcanic ash fall in small area of leeward, sometime you can escape from ash if you move from the place.

### 【No.5】 Don't be surprised when you see the people without wearing the masks.

You'd better wear the mask when volcanic ash falls, however it doesn't mean that you can't go out without masks. You may realize that there are few people wearing masks to solve volcanic ash when you go to the city of Kagoshima.



### 【No.6】 Don't worry too much of huge eruption.



If an eruption of the scale of the Taisho Eruption is to occur, there will be precursory signs observable months in advance such as fluctuations in the earth and frequency of earthquakes. There is no chance of a sudden eruption. Even in the case of the Taisho Eruption, there were precursory signs such as the lowering water levels of wells and earthquakes.

### 【No.7】 If you are seriously worried, check out the information of Meteorological Agency.

The Meteorological Agency will announce a level 4 eruption warning (prepare for evacuation) or a level 5 eruption warning (evacuate) in the case that a major eruption that requires evacuation has been predicted for Sakurajima. If you would like to know the condition of Sakurajima please inquire at the Meteorological Agency or visit the homepage.



<http://www.data.jma.go.jp/svd/vois/data/tokyo/keikailevel.html>