Record of the earth over 100 million years

The sedimentary rock formed over the extraordinary time of 100 million years and the eruptive rock where volcanic magma cooled and solidified give rise to geo-sites which display the activity of the earth at close range.

An overview of specific geology in Amakusa

Geologic formations are typically named after the area in which they are found. In Amakusa the names of the Goshoura and the Himenoura Groups from the Cretaceous or the Akasaki, Shiratake and other formations from the Paleogene were derived in this way. By associating the geologic features found in Amakusa to their place names, we can better understand the general geologic make-up of Amakusa. So, let's look at some specific geologic features in Amakusa.





1 Takamoku Island



years ago in the northern part of the Oyano slands. One of them is Takamoku Island consist-ng of andesite containing large amounts of horn-plende. It is known as Amakusa-Fuji from the

Outcrop of unconformity in Yokourajima



Waterfall of Iwaiguchi-



lwaiguchikannon-daki is a gentle steep waterfall pour-

5 Kogakura-kannon



rock from magma which leads also to the

Black shale of the Kyoragi



Kyoragi, Kamiamakusa-city named after the



6 Ripple-land

7 Kurosaki Coast



10 Outcrop of the Takahama metamorphic rocks



14 Mt. Takabuto veiw place and an outcrop of unconformity

A global view of many islands strung together by the Amakusa Five Bridges from Matsushima town through the Oyano islands can be had from the Mt. Takabuto view place. The strata of both the Cretaceous and the Paleogene are observed with unconformity at a side road of National Route 266 leading to Mt. Takabuto.

17 'Benzaiten'

There is an isolated rise by the seashore which eloquence, music and wisdom. The stratum of the rise consists of sandstone and mudstone of

What is a geologic age?

Geological age is the time measured from the formation of the earth to the present. Human history is under 0.1% of the Earth's total geologic age.

8 'Oppaiiwa'



there is what produced such a form through

Tidal sediments in Komori, Gesujima



ancient times can be understood by observing

15 Gongen limestone cave

A limestone cave situated on Mt. Gongen is the

18 Glauconite sandstone in Amatsuke

The Iccyoda Formation is characteristic glauconite sandstone containing many glauconite grains and is known to include many shellfish fossils. When the coal industry was prosperous, it was used as a key for the discovery of coal beds.

20 Onnojyo park

Zonal bores were made in a wall of an outcrop in the Onnojyou park, where 110 stone statues of Buddha were installed. Although in folklore, this zone was thought to have been caused by a large snake passing through, it is in fact the fragile zone of Goryo tuff breccia formed under natural

9 Granodiorite



Marine sediment and basalt in Yushima

The marine deposits and basalt laid down 820,000 uted in the southern area of the Shimabara peninsula. Many shellfish fossils which inhabited an inner bay have been observed in the silt layer of the lower part of the marine deposit.

13 'Dagoishi'

residents of Shiraiwa village sits on the top of a rocky surfaced hill at 30m high. It is the reminant of thick sandstone from the Shiratake Formation that has been rounded down by erosion. Though it appears that it will tumble down at any moment, it remains a place for residents recreation,

An outcrop of the Shimoura Stone

composed of sandstone, is distributed in the Shimoura area and is named 'Shimoura Stone.' The sandstone seen by this outcrop was quarried and used for the construction of stone bridges distributed throughout the Amakusa islands that have become officially designated cultural assets

19 Abandoned quarry dug out of intrusive rock

There are some places in the surrounding moun intruded into the Kyoragi Formation are widely distributed in Amakusa-kamishima. The rocks are very hard and were once extracted from now neglected and overgrown quarries to be used as

21 Gongenyama basalt and the Sakasegawa Formation

Basalt is distributed on the top of Mt. Gongen which is located at the boundary between Ushi-buka and Oniki towns. The basalt intruded into the Paleogene Sakasegawa Formation and flowed over the topographic surface at about 7 million years ago. The Sakasegawa Formation includes shellfish fossils at the middle level of Mt. Gongen.

Geologic time scale

Paleozoic	Mesozoic			Cenozoic					
	Triassic	Jurassic	Cretaceous	Paleogene					Quaternary
	massis			Paleocene	Eocene	Oligocene	Miocene	Pliocene	
(measured in millions) 251		145.5 65		5.5 55.8 33		23	23.03 5.33 2.5		588