

Geologic guide map along Senzan Line

Open-File Report 563
Geological Survey of Japan, 2012

The Guide of Geology along Senzan Line is prepared for traveler and walker. The geological map is compiled on the base of 1 million scale geologic map of Japan with new geological survey data. Description of geological units and sightseeing points is basically prepared for travelers and walkers who are not geologist, but it is also useful for the geologists who are not familiar to geology of this area.

(1) Sendai Station

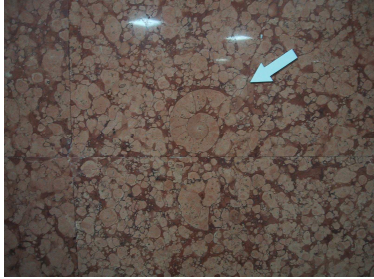


Photo 1, Ammonite fossil in limestone at Denryoku Building. We can see various building stones in Sendai City.



Photo 2, Mt. Taihaku-san. It takes 30 min. to visit Mt. Taihaku-san by bus from Sendai Station.



Photo 3, Columnar joints of andesite at Mt. Taihaku-san.

(2) Rikuzen Ochiai Station



Photo 4, Mt. Banzan. Basaltic lava overlies the mountain.



Photo 6, Banji Stone Wall at Putakuchi Valley. It takes 30 min. to visit Putakuchi Valley by bus from Ayashi Station.

(3) Ayashi Station

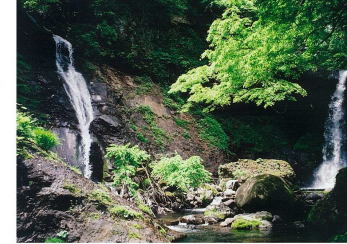


Photo 5, Waterfall of Sisters at Putakuchi Valley.

(4) Rikuzen-shirasawa Station



Photo 7, Zeolite mine near Rikuzen-shirasawa Station.

(5) Kumagane Station

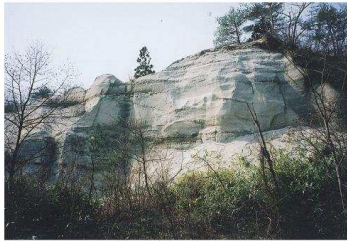


Photo 8, Outcrop of soft tuff near Kumagane Station.

(6) Sakunami Station

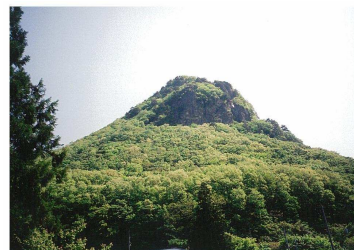


Photo 10, Mt. Kamakura-yama near Sakunami Station.

(7) Okunikawa Station



Photo 12, Waste of closed copper mine, 30 min. by foot from Okunikawa Station.

(9) Yamadera Station



Photo 14, Pumice tuff at river floor near Yamadera Station.



Photo 9, Top of Mt. Togami-yama



Photo 11, Outcrop of cross laminated sandstone north of Mt. Kamakura-yama.



Photo 13, Whale Stone at valley near Omoshiroyama-kogen Station. It is composed of pumice tuff.

Bibliographic reference
Takahashi, Y. (2012) *Geologic guide map along Senzan Line*. Geological Survey of Japan, Open-File Report 563.

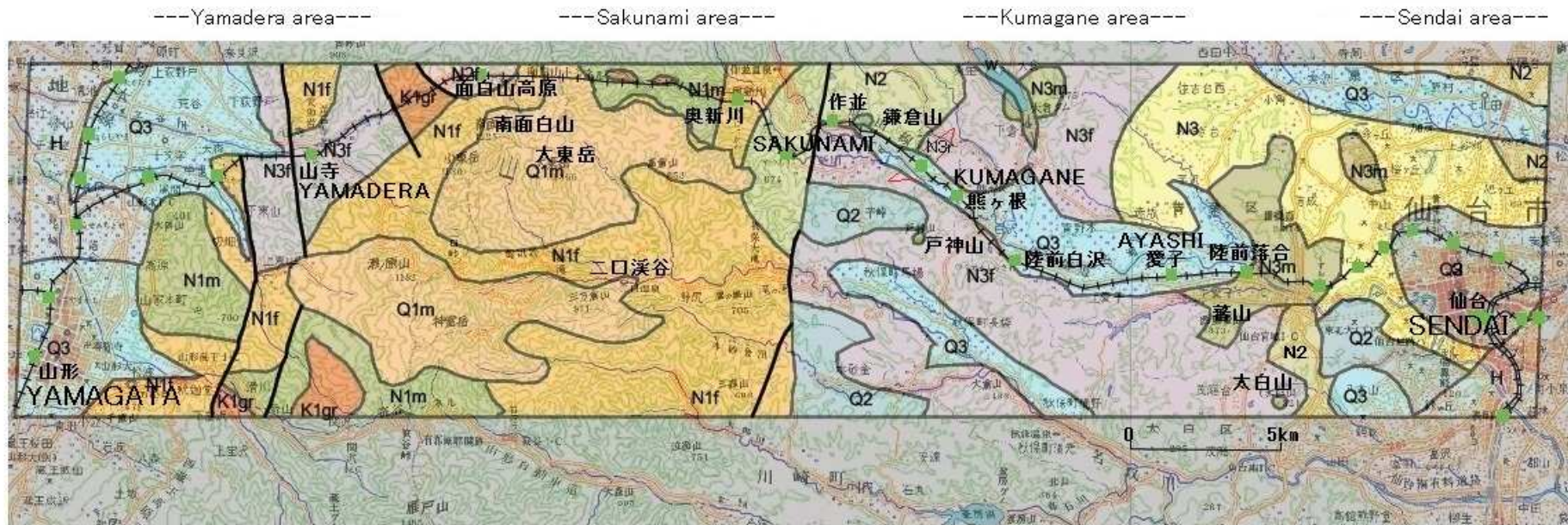


Fig.1 Geologic map

Table 1
Summary of geology

Geologic age		Geologic division	Abbr	Lithofacies	Yamadera area	Sakunami area	Kumagane area	Sendai area	Remarks	
Quaternary	Holocene	Alluvium	H	Gravel, sand and clay	Alluvium	Alluvium	Alluvium	Alluvium	Terrace is divided into more.	
	Pleistocene	Late	River terrace deposits	Q3	Gravel, sand and clay	River terrace deposits				
		Middle	Imotoge F., Aobayama F.	Q2	Gravel, sand and clay			Imotoge F.		Aobayama F.
		Early	Banjiwa Volcanic Rocks	Q1m	Andesite and dacite	Banjiwa Volcanic Rocks				
Neogene	Pliocene	Sendai Group	N3	Sandstone, siltstone and tuff					Dainenji F. Mukayama F. Tatsunokuchi F. Kameoka F.	
		Late	Akiu Group	N3f	Tuff, siltstone and sandstone			Fukano F. Shirasawa F. Nashino F.	Shirasawa F. Nashino F.	Zeolite Mine (working)
	N3r			Rhyolite and dacite			Felsic volcanic rocks		Dykes	
	Miocene		Andesite, Basalt	N3m	Andesite and basalt			Intermediate to Mafic volcanic rocks		
	Middle	Natori G., Sakunami F.	N2	Conglomerate, sandstone, mudstone and tuff			Hikage F.		Hatetate F. Moriwa F.	
			N1f	Tuff and tuff breccia			Arawawa F. Okunikawa F.			
		Early	Arasawa F. Yonnosawa F.	N1m	Altered andesite	Bohara F.	Yonnosawa F.		Copper Mine (closed)	
	Cretaceous		Granite	K1gr	Biotite granodiorite	Granite	Granite			