

* ① and ② earthquake were almost the same scale but ① earthquake record in terms of damages. so big shaking scale was small earthquake so are was slight earthquake. we think the fire happened because building were damaged and more snow fell.

② it is assumed that there was a great deal of damage in earthquake ②, but there is no record about the number.

Now, earthquake observation line is maintained. so we can capture the right information about damages. When we examined historical earthquake, in those days record earthquake resistant building population distribution record was important. From study consequence we can say that earthquakes will occur in the future. Also, we will look into the tendency of the past earthquake and see if there is any characteristic which causes earthquake with a great deal of damage.

* ① First earthquake, 1763

② Second earthquake, 1776

Tsugaru earthquake
and damages

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Purpose & Hypothesis & Method

Recently, there have been a number of big earthquakes in a lot of areas. So, we studied this problem. We used historical earthquake information about the Tsugaru area. We compared the sea of Japan side and Pacific ocean side earthquakes. We studied big earthquakes and damage in the past. We studied areas where earthquake and damage happened. And we thought about when and where earthquakes will happen in the future. Again we thought about Pacific ocean side earthquakes and Sea of Japan side earthquakes were different in amount of damage and the number of earthquakes.

Procedure & Result & Consideration & Conclusion

- We translated ancient materials on earthquake history in Aomori into modern Japanese and classified it into earthquakes the Pacific side and those in Tsugaru area.
 - The first occurred earthquake on the Pacific side in 1763, and also a pillar of the town hall, the houses collapsed, the river was flooded a death occurred.
 - The second earthquake occurred at Tsugaru in 1776. The magnitude of the earthquake was 7.0. The damage was as shown in the figure below. More than 6,400 houses were damaged, more than 250 houses were burned, more than 40 temples destroyed. The field submerged, cracking occurred, many deaths 1,400 people died. (300 people burned to death, 1,000 people crushed to death.)
- It was written that Goshogawara vibrated laterally violently Aomori and Kuroishi vibrated laterally weakly Ikarigaseki and Higashidori didn't vibrate laterally.
- We discovered earthquake characteristics.

