
The Assessment of the Archaeo-environment by Using GIS

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The purpose of this paper is to recommend how to assess archaeo-environment by using GIS, and to show the perspective of that in the archeology. GIS (Geographic Information Systems) is the computer system, which makes a space various attribute links with the various databases, and a study of the geography is begun. From the character as a system, in the archeology of the foreign countries, applied to economic spatial analysis, and archaeo-environment analysis, and the use of GIS is general, it is being included into the curriculum of the university. But, in the Japanese archeology and the historical science, that has just begun. So, I try to apply the analysis technique of the foreign countries to the Japanese archeology through SANNAI-MARUYAMA and the circumferences.

The two next characteristics float up in SANNAI-MARUYAMA by the result of the excavation. One, the thing that the scale of the remains was big and many human beings lived at a time. Another, the thing that the use of the environment resources was abundant in. We must think what kind of environment factor formed those characteristics of SANNAI-MARUYAMA. So, the position and scale, the territory, and time series changes of the circumference environment were analyzed by using GIS.

The following thing became clear as a result. First, In SANNAI-MARUYAMA, there were many amounts of resources, which were latently available in comparison with the circumference area. It is especially interesting that it is located in the area which is suitable for rearing of the plant. Next, it became clear that a circumference environment was more suitable for the land resources in comparison with the sea resources from the time series analysis. I insist that an environment factor functions strongly in many sides as for such characteristics that SANNAI-MARUYAMA stand out as a result of such an analysis.

It learned to discuss relations between the human being and the environment concretely by the introduction of such an analysis technique. From now on, I will be anticipate that such a method becomes general.