

# **A study on historical changes and the future rebuilding plan of relation between creeks and human activity in the Saga plain**

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**KEYWORDS : creek, human activity, relation, the Saga plain, historical changes, the future rebuilding plan**

## **ABSTRACT :**

In recent years, the concern about an environmental problem is increasing with the viewpoint of the local environmental problem that oneself is concerned directly, from global environment problems, and it is considered that relation by local environment makes it conscious of a familiar environmental problem.

Then, in this study, it observed to the channel built in order to use nature well. It can say that people have been concerned with natural environment by using channels, and it is thought that seeing changes of activity of the man in connection with channels can see relation by human activity and environment. In this study, it deals with the relation between human activity and creeks in the Saga, and investigation research was performed. A creek is the channel artificially dug in the Saga plain.

It is mentioned that the relation between human activity and creeks became thin in connection with historical changes, and to improve the relation is needed. Moreover, I think that it must consider in the synthetic viewpoint how the problem in each field is mutually related in addition to the study in each special field of study.

Then, in this study, in order to clarify changes of the relation between human activity and creeks, the system of the relation between human activity and creeks was analyzed using investigation by reference, the hearing, and the DEMATEL method, and I proposed reconstructing plural relations from now on.

I clarified followings about the relation between human activity and creeks as a result of investigation analysis.

Before 1955, the relation between human activity and creeks is the plural systems which had a relation in various fields, moreover, those relations had not been independent and formed a multistory system which is mutually related.

In the present age, while having changed from plural relations to an unitary relation called the use in agriculture, the new relation of using as a place of an event is also generated. Moreover, it turned out that a difference is in consciousness by the difference in each position.

From the above results, I proposed making the plural relations like ancient times into the hint for reconstruction of the relation between men and creeks. I specifically showed the possibility as a place of the event of a creek.

When people tell the problem of creeks now, responsibility may be pushed only against a farmhouse or administration or it may argue only from only one viewpoint, such as an "agricultural water supply" and "habitation of a living thing." By this, in spite of realizing the relation between human activity and creeks in the complicated relation of various elements, those relations will be treated as each unitary relation.

I think that it is required for broad people not only including people who are the residents including the farmhouse, a citizen group, and administration but people other than the Saga plains, such as the whole people of a prefecture and city residents to unite and consider each field of all and to work on a creek.