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The road where Tadataka Inoh walked About 200 years ago was found by using GIS software "ChizuTaroPLUS".

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1. Preface

Tadataka Inoh who measured the Japanese whole country for the first time about 200 years ago n the latter period of the Edo era had a map called "Inohzu".

The Inohzu consists of three maps called "Daizu", "Tyuzu", "Syozu", which each maps has a Appearance of Japan at that time by a unified scale and it is the valuable document.

"The complete reconstruction of Inohzu Nationwide round floor exhibition" exhibited in the huge floor where the Inohzu of size of the original restored to the original state to everyone is held in national each place and is popular.

I hope that this study is used 1. As a comparison document with the current coastline reclaimed after the Meiji era, 2. As a document of the save of the historic scene in knowing an old highway and the national town and village revitalization,

by inputting Sokusen(a coastline and the line of main highway which really walked to survey) drawn on the Daizu (scale 1/36,000) which put 1/25,000 topographical maps of the Geographical Survey Institute publication on the top as a background map.

2. Superimpose Sokusen on a topographical map

I used compact GIS software "ChizuTaroPLUS" for work of superimposing. "ChizuTaro" is GIS software to be able to use by the simple operation that narrowed down to functions from the conventional GIS software that feels image of complicated operation and of having many functions. There is the function that can superimpose various maps in "ChizuTaroPLUS". Other than a vector map of the raster (an image) map when put it on top of one another, have a function of alining it, and can repeat old and new maps. I made full use of the transmission of the image which lasted of "ChizuTaroPLUS", expansion / reduction, a turn, a transformation function and aligned a stack. I performed data after having considered a then surveying error and an expansion and contraction error of the paper because Tadataka Ino used conducting wire method and meeting place law, and surveying / a figure became it while I used an image position alignment function of "ChizuTaroPLUS", and can put it together on a topographical map.

3. As a result of having put Inohzu and a topographical map on top of one another

It was still the way of the study, but was able to confirm the accuracy of the Inohzu some other time. There was the point that slipped off greatly at the joint at a river and the drawing interval, but confirmation and reading of the shape were the precision that it was possible for clearly in total, and a figure of Inou was convinced of it being it with enough documents which knew Japan before 200 with a current topographical map. I was able to confirm that many shorelines were done landfill of after most old highways (but there is the a little-shaped changed place) staying, light Osamu. (Figure reference)

4. The record characteristics of the map

An old highway set in the bottom of the dam now and turned into the thermal power station and I changed and just stayed in the golf course in an US base and keenly realized that it was the importance which "a map" had the change in the times for as a record through work. Of course it understood that a topographical map had a big duty to be able to stream down now in history through this work like Inohzu to be the importance that Inohzu knew the times 200 years ago.

Keywords: GIS, Tadataka Inoh, Old Map of Japan was made by Cartographer Tadataka Inoh