

Comparison of GSI map data with the surveying data by targeting Woods for Field Practice Owned by Sagano High School

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We have performed over 50 research activities in the W.F.S. and researched about them. However, we have not analyzed rearranged all of the data yet. In this study, we wanted aimed to clarify how precise the Geographical Survey Institute (GSI). GSI map data of the area actually was, assuming that our surveying data of W.F.S was more accurate than altitude data available on GSI on GSI maps. We conducted a plane surveying and gathered all the latitude, longitude, and altitude data. Using this data, we ran a process within the GSI system were able to process them. Also, we created 3D models using a 3D printer. As a result, we confirmed that the surveying model was more accurate than the available GISGSI map data. When we tried to create the model in three dimensions with the printer, we reviewed appropriate methods and considered which resin would be better to use. We modeled the wider area based on the GISGSI map mainly because there was a request from nearby local elementary school that requested a vast area model, but in the future it is anticipated that we could utilize the model for various research activities in the W.F.S. By using the large 3D model, we may be able to do many experiments such as research sediment disasters.

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