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## Development of the Virtual Theodolite for Geomagnetic observation

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To understand geomagnetic observation is important for the researcher who analyze the geomagnetic data. Then practical training helps understanding the geomagnetic observation. In the university, learner have opportunity to experience with the observation. However, learner have to do it in the group because of the limitation of the number of equipments. Under such a situation, the gap can be done in the understanding level between active learner and non-active learner. The benefit of our VTG is that each learner can simulate the geomagnetic observation on their own virtual geomagnetic observation environment. The VTG is the web application, 1.to display stars by using Google Earth, 2.to display geographic information by using Google Earth, 3.to simulate the magnetic field by using IGRF model, 4. to simulate the geomagnetic observation by using 1-3 and the program which is written by JavaScript and WebGL. In this presentation, we describe our VTG.

Keywords: Geomagnetic Observation, Simulator, Fieldwork, Google Earth, Web Application, WebGL