

Measurement of Radon Concentration for Earthquake Prediction in the Woods for Field Practice Owned by Sagano H. S.

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Radon is a gaseous, radioactive isotope formed in the decay chains of elements such as thorium and uranium. It has been identified that the atmospheric concentration of radon increases before earthquakes because it is released from the ground through cracks caused by the seismic stress.

In the present study, we measured the atmospheric radon concentration in the Woods for Field Studies owned by Sagano High School in order to examine the relationship between earthquakes and the atmospheric radon concentration. We acquired a "Radon Scout Professional" radon detector and tested its performance using two samples containing thorium and uranium. After the test, we placed it in a well-ventilated, water-proof container and installed it in the school forest. The measurements are still on-going. In this presentation, we will report the details of the measurements and our results.

Keywords: Experiment forest, Forest, Earthquake, Radon