

Remarks from Meteorology to Seismology

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Earth science has to be related to social systems, because it investigates the Earth, where our society exists. Meteorology was initiated from a safety of navigation, and it has to be involved in a weather forecasting, besides an understanding of weather phenomena. A typical example is a weather forecasting as a physical problem proposed by L.F. Richardson. Since then, a method based on physical principles and numerical models plays a very important role in science and application.

Global warming was started from a viewpoint of understanding a mechanism of the Earth climate formation. However, as it became a political issue, meteorology has to be involved in it. As is often said that the global warming issue is a problem with science and politics, but both arena are completely different. We need a professional who can connect both arenas.

Then, scientific community are now presenting scientific results with uncertainty. At the same time, we are going to present different scenarios, where probability and impacts to the society is shown. Political decision is not free from value judgement, and different values exist in the society. Final decision should be made by people.

Problems in seismology relating to the Earthquake prediction may have similar characters.

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