

## Perspective of 'History X Earth and Planetary Science'

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"History X EPS" is a title of this session as well as the name of the application area proposed for Grant-in-Aid for Scientific Research on Innovative Areas. The application area consists of 4 sub area: "Ten" (astronomy), "Ki" (climatology and meteorology), "Chi" (solid earth science), and "Jin" (human and society).

Historians and researchers of earth and planetary sciences have been collaborated in the preceding projects. There are a number of projects for such interdisciplinary collaboration. Here we present prospects of "History X EPS." The scope of the session is as follows:

The history of modern observation in earth and planetary sciences is often far shorter compared with the timescales of their interests. Investigation of the long-term variations and occurrences of extremely rare events requires effective use of information before modern observations. Historical documents recorded by diverse kinds of authors in various situations are the important sources of such information.

Thus, historical documents have been referred in various fields of earth and planetary sciences such as seismology, climatology, meteorology and astronomy. Sharing their records, methods and experiences will be beneficial for each field and bring new insights. It is also essential to involve experienced scholars in history because one needs to carefully investigate the reliability and the context of each document in order to use it as scientific data. On the other hand, analyzing the record in the historical documents with the eyes of modern science may also bring new insights to the history scholars.

In this session we overview the studies using the historical documents in various fields of the earth and planetary sciences as well as the recent advances in related topics such as digital humanities and historical-data assimilation. The aim is to promote the communication and dialogues among the researchers in various background, and thus foster the new ideas and collaborations in the study of "History X EPS."

Keywords: History, Astronomy, Solar physics, Meteorology, Seismology