

Past, present, and future of aurora and human society

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We introduce our outreaching activities of Aurora 4D project (<https://aurora4d.jp>). Aurora 4D project is a collaborative challenge among different fields of humanity, natural science, and citizen science. We are archiving the eye-sighting records of aurora phenomena in old writings, as well as mapping the digital images of aurora uploaded to internet by people in present society. The interesting records of worldwide expansion of special aurora activities are important to understand the physics and to mitigate the related space hazards, and it is interesting to discuss the history, and background of people at that time.