

A new auroral candidate in 775 in Japanese historical source

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Abstract

Solar activity has been recorded as auroras or sunspots in various historical source, especially as "colored vapor" or "colored cloud" in oriental historical documents (Hayakawa et al. 2015). These records are of much importance to investigate both long-term solar activity and extremely intense solar flares. Especially for the extreme cosmic event between 774-775, which Miyake (2012) pointed out, many studies through historical sources have gotten carried out. In this presentation, we present a new auroral candidate "white rainbow" in 775 and examine whether it can be aurora or not through comparison of contemporary historical sources.

References

Hayakawa H, Tamazawa H, Kawamura AD, and Isobe H (2015) Records of sunspot and aurora during CE 960–1279 in the Chinese chronicle of the Song dynasty, *Earth, Planets and Space*, 67: 82

Miyake F (2012) A signature of cosmic-ray increase in AD 774–775 from tree rings in Japan. *Nature*: 240–242.

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