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Consideration of the scholarly information infrastructure in open science era on upper atmospheric research

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Most of the ground-based observational data in the upper atmosphere is acquired freely without the special restrictions. The infrastructure for interdisciplinary study such as metadata database for search performance improvement of the open data, and data analysis software for convenience improvement has been built from 2009 by the Japanese IUGONET project. On the other hand, the activity that DOI minting to data is in progress by the ex-World Data Centers in the IUGONET project. In our presentation, upper atmospheric research is treated as a test-bed,

the element which should be composed of scholarly information infrastructure including from data and literature is pointed out.

Keywords: Open Science, Upper Atmospheric Research, Open Data, Metadata, Identifier, Data Centric Science