R011-14
C 会場 ： 11/24　PM2（16:05-18:05）
17:50〜18:05:00

COMPASS: 130 万点の歴史的地磁気記録のための IIIF 準拠ポータル

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COMPASS: An IIIF-based Portal for Over 1.3 Million Historical Magnetogram Records

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Historical magnetograms are vitally important for research for space weather, space climate, and geomagnetism. However, these invaluable records have rarely been published in searchable or viewable formats, posing a significant barrier for the scientific community in terms of their accessibility. To overcome this difficulty, we developed COMPASS (Comprehensive Magnetogram Portal and Archive Service System), a web portal leveraging the International Image Interoperability Framework (IIIF) for unified discovery and interactive visualization of digital magnetogram images. The IIIF image server and manifests in our system allow researchers to search, download, and compare over 1.3 million high-resolution images from our archive—representing over 100 years of data from more than 100 observatories—on a single and interactive screen. The adoption of the IIIF standard transforms this vast dataset into a powerful, interoperable resource, significantly enhancing its utility for the research community. This framework is expected to accelerate cross-disciplinary collaborative studies on historical geomagnetic variability.