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Analysis of the sunspot drawings from the Royal Observatory of Belgium

Sunspot drawings are a unique source of data to retrieve long-term information on the evolution of the solar cycle. The sunspot drawings taken at the Royal Observatory of Belgium (ROB) with the USET observing station cover more than 80 years, and they continue to be made nowadays with the same refractor. Recently, the collection has been fully digitized and analysed.

In this talk, we present the analysis of the USET sunspot drawings with our in-house software DigiSun, and the physical parameters extracted from them. This includes sunspot count, sunspot area, and measure of spatial and morphological information. We also show some preliminary results obtained from those parameters.

Contribution Type

Theme

Solar Magnetism over Long-Time Scales

Primary author: BECHET, Sabrina (Royal Observation of Belgium)

Presenter: BECHET, Sabrina (Royal Observation of Belgium)