

E108-008

Room: 304

Time: May 25 16:30-16:45

Variation of Solar '11-year cycle' during the grand solar minima

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We investigate the variation of solar activity in grand solar minima by determining the concentration of cosmogenic isotope ^{14}C in annual tree rings.

We obtained the ^{14}C records including the Sporer Minimum, the Maunder Minimum and a possible grand solar minimum in the 4th century BC with annual time resolution.

In this speaking, we argue about the variation of solar '11-year cycle' during the three grand solar minima including updated data.