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Extreme space weather

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The field of extreme space weather has undergone substantial development during the past 20 years, beginning in 2003 with the uncovering of magnetic records from India for the 1859 Carrington storm. More recently, new windows on extreme solar-terrestrial events have opened with studies of cosmogenic nuclide events and historical aurorae and the discovery of superflares on solar-type stars. Here we consider the observed, inferred, and estimated limits of space weather phenomena, including solar flares, solar energetic particle events, coronal mass ejections, and magnetic storms.

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