

## [IS-02] The Sun's Magnetic Field and Activity

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The Sun is a restless star. It shows a wide variety of transient or active phenomena, such as dark sunspots, the continuously changing hot corona, energetic flares and immense coronal mass ejections, together with the associated output of energetic radiation and particles. The single quantity that is responsible for the continuing unrest of the Sun is its tangled and dynamic magnetic field. It produces these and many more fascinating phenomena, including changes in the Sun's radiative output, which has been invoked as a source of solar influence on the Earth's climate.