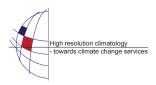
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Sun's influence on climate: Explored with SDO

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Stunning images and movies recorded of the Sun, with Solar Dynamics Observatory (SDO), makes one wonder: How would this change our view

on the Sun-Earth climate coupling? SDO shows a much more variable Sun, on

all spatial and temporal scales. Detailed pictures of solar storms are foreseen to improve our understanding of the direct Sun-Earth coupling. Dynamo models, described by dynamical systems using input from helioseismic observations, are foreseen to improve our knowledge of the the Sun's cyclic influence on climate.

Both the direct-, and the cycle-influence will be discussed in view of the new SDO observations.