

## Activity during solar minimum and activity during solar maximum

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It is important to forecast of amplitude of a new solar cycle because number of solar flares or space storms depends on solar activity level. We statistical studied a relation between activity during a minimum period and the following maximum activity. There is a negative correlation between number of no-sunspot days in the minimum and maximum sunspot number of the following cycle. And there is a positive correlation between number of no-sunspot days in the minimum and rise time of the following cycle. A sunspot group, which showed a characteristic of Cycle 24 was observed in January, 2008. However, solar activity of 2008 continued to be very low and number of no-sunspot days was 266 days. According to low solar activity during the minimum of Cycle 23, there is a possibility that the amplitude of Cycle 24 becomes lower than that of Cycle 23 and maximum of Cycle 24 happens in 2013. There is an exception on the relation between activity during the minimum and amplitude of the following cycle. Number of no-sunspot days of 1954, the minimum of Cycle 18, was 241 days. However, Cycle 19 became the most active cycle in the past 23 cycles.