

Solar Activity Parameters Prediction of the forthcoming 11-year cycles No.24 and 25 (years 2005-2027)

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Since the prediction of the solar activity by physical methods is not still possible but the demand for such predictions is very intense, it is reasonable to develop and improve empirical methods which can approach an approximated profile of the forthcoming solar cycles, quite well.

Fundamental parameters of the solar cycle could be predicted in a medium range time span by an improved statistical method with quite satisfactory accuracy exceeding 90%. In fact, it is possible to forecast the time of rise of the forthcoming couple of the 11-year cycles, the total duration of them, the yearly values of the activity on the maximum and minimum epochs of the cycles as well as the time of maximum and the second minimum. Predicted values of these parameters for the cycles No. 24 (2005-2016) and 25 (2016-2027) are tabulated at the last paragraph of our contribution.