THE FORECAST OF BASIC PARAMETERS OF 24th CYCLE VIA THE AMOUNT OF SPOTLESS DAYS IN A PREVIOUS MINIMUM

A.I. Khlystov, B.V. Somov

Sternberg State Astronomical Institute, Lomonosov State University, Moscow, Russia

Abstract. In the present article we have undertaken attempt to connect amount of spotless days in a minimum of a cycle with the basic characteristics of the subsequent cycle: its height, full duration and the length of the branch of growth. Accepting for the sum of spotless days before the beginning of 24th cycle $\Sigma DT0 = 800$ (July, 2010), we have received following characteristics of 24th cycle: the beginning of the cycle 2009.0 (January, 2009); duration of the branch of growth RW = 4.8 years; maximum date 2013.8 years (October, 2013); Wolf number in a maximum of the cycle WM = 63; length of the branch of recession DW=7.8 years; full duration of the cycle DTmm = 12.6 years; the end of the cycle 2021.6 (July, 2021).

Keywords: solar activity, cycle, forecast, spotless days.