

DISTRIBUTION OF POWERFUL AND SUPER-POWER FLARES ON PHASES OF SOLAR CYCLES

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Abstract. Distributions on phases of solar cycles of all powerful X-ray flares from 1976 to 2013 and flares in current 24th cycle are investigated. The conclusion is made, that approximately till 2019 it is possible to expect occurrence of M-class flares and X-class flares till X8. More powerful flares are not excluded as well. Super-power flares such as «Carrington event» are improbable.

Keywords: solar flares, cycle, forecast.