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Preferred solar longitudes in occurrence of CMEs for SOHO LASCO data

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Various manifestations of solar activity are not uniformly distributed on heliographic longitudes. Analysis of the daily sunspot numbers, the properties of solar wind, as well as the synoptic maps of photospheric magnetic fields indicates that some solar longitudes are especially active. Also the CME occurrence rate shows longitudinal dependence. In my previous paper, existence of preferred longitude where CMEs occurs more frequently was demonstrated. That longitude changes its orientation into opposite twice over solar activity cycle, similar to sunspot behaviour. In addition, the actual transient position of dominating longitude changes permanently, slower or faster accordingly to phase of solar activity cycle. Purpose of this work is to determine the location of the active site and tracking it over almost all solar cycle (1996-2004). Moreover, some features of CMEs originated at the preferred longitude are examined, and comparison with characteristics of whole CME population is performed.