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A catalog of white light coronal mass e SOHO spacecraft

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[1] The Solar and Heliospheric Observatory (SOHO have observed nearly 7000 coronal mass ejections (have documented the measured properties of all the describe this catalog and present a summary of the st primary measurements made on each CME are the a angular width in the sky plane, and the height (helioc The height-time measurements are then fitted to firs derive the average apparent speed and acceleration of of CMEs are (1) the average width of normal CMEs 47° (1996; solar minimum) to 61° (1999; early phas decreased to 53° (2002; late phase of solar maximum) equatorial region during solar minimum, while during latitudes, (3) the average apparent speed of CMEs in minimum) to 500 km s⁻¹ (solar maximum), (4) the a (957 km s⁻¹) is twice of that of normal CMEs (428 CMEs ($V \le 250 \text{ km s}^{-1}$) show acceleration while mo show deceleration. Solar cycle variation and statistic with greater clarity in this study as compared with p findings for CME models are discussed. Astronomy: Coronal mass ejections; 7536 Solar Physics, Astron (2162); 7509 Solar Physics, Astrophysics, and Astronomy: Core Astronomy: General or miscellaneous; KEYWORDS: Coronal Ma

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1. Introduction

[2] Although the concept of mass ejection from the Su has been known for a long time, the phenomenon of coron mass ejections (CMEs) as we know them today was fir discovered in 1971 using the seventh Orbiting Solar Ol servatory (OSO-7) coronagraph [Tousey, 1973]. Severa spaceborne coronagraphs such as the Apollo Telescop

