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## **Geoeffectiveness of halo coronal mass ejections and magnetic clouds**

### **Abstract content**

Coronal mass ejections (CMEs) have the ability to significantly disturb geospace, after reaching the CME plasma near Earth. In the present paper, the statistical results of the geoeffectiveness of coronal mass ejections (CMEs) and magnetic clouds (MCs) during solar cycle 23 (1996-2006) have been presented. We compare the non-cloud CMEs with those of MCs. We have found that 71% of all frontside halo CMEs are geoeffective, which indicate the high rate of geoeffectiveness of halo CMEs.

**If this papers is presented for a collaboration, please specify the collaboration**

### **Summary**

### **Reference**

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