

Corotating interaction regions, magnetic storms, and radiation belts

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There are plenty of magnetic storms driven by corotating interaction regions during the solar cycle 24, although coronal mass ejections are playing somewhat a limited role over the weak solar cycle. More than one solar cycle has passed since some initial statistical studies of CIR/CME storms and radiation belts, including Miyoshi and Kataoka (2005) and Kataoka and Miyoshi (2006). We review the fundamental response of radiation belts associated with CIR storms during the solar cycle 23, and discuss a notable difference and/or an unexpected variation during the solar cycle 24.

References:

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