Geophysical Research Abstracts, Vol. 9, 04147, 2007 SRef-ID: 1607-7962/gra/EGU2007-A-04147

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Magnetic clouds and their expansion

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Magnetic clouds for years 1995-2003 are analyzed using a model of a cylindrical flux rope which may not or may include cloud expansion. We investigate how inclusion of the expansion affects determination and values of magnetic cloud parameters and for what fraction of observed magnetic clouds expansion effects are important.