



Using helispheric imager observations in predicting the impact of coronal mass ejections (CMEs) at planets

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Connecting coronal mass ejections (CMEs) in remote-sensing and in-situ observations can be surprisingly difficult. Coronagraphs can detect CMEs only about 10% of their journey from Sun to 1 AU. One viable way to track CMEs through the inner heliosphere is using heliospheric imaging. HELCATS (Heliospheric Cataloguing, Analysis And Techniques Service) LINKCAT catalogue is the first concerted effort to establish such linkage automatically by the systematic use of STEREO Heliospheric Imager (HI) observations and related modelling. This presentation gives an overview of how the LINKCAT catalogue is generated and evaluates the potential of HI-based imaging in connecting CMEs near the Sun and in-situ. We will also discuss the possible problems in our approach and the key future improvements.