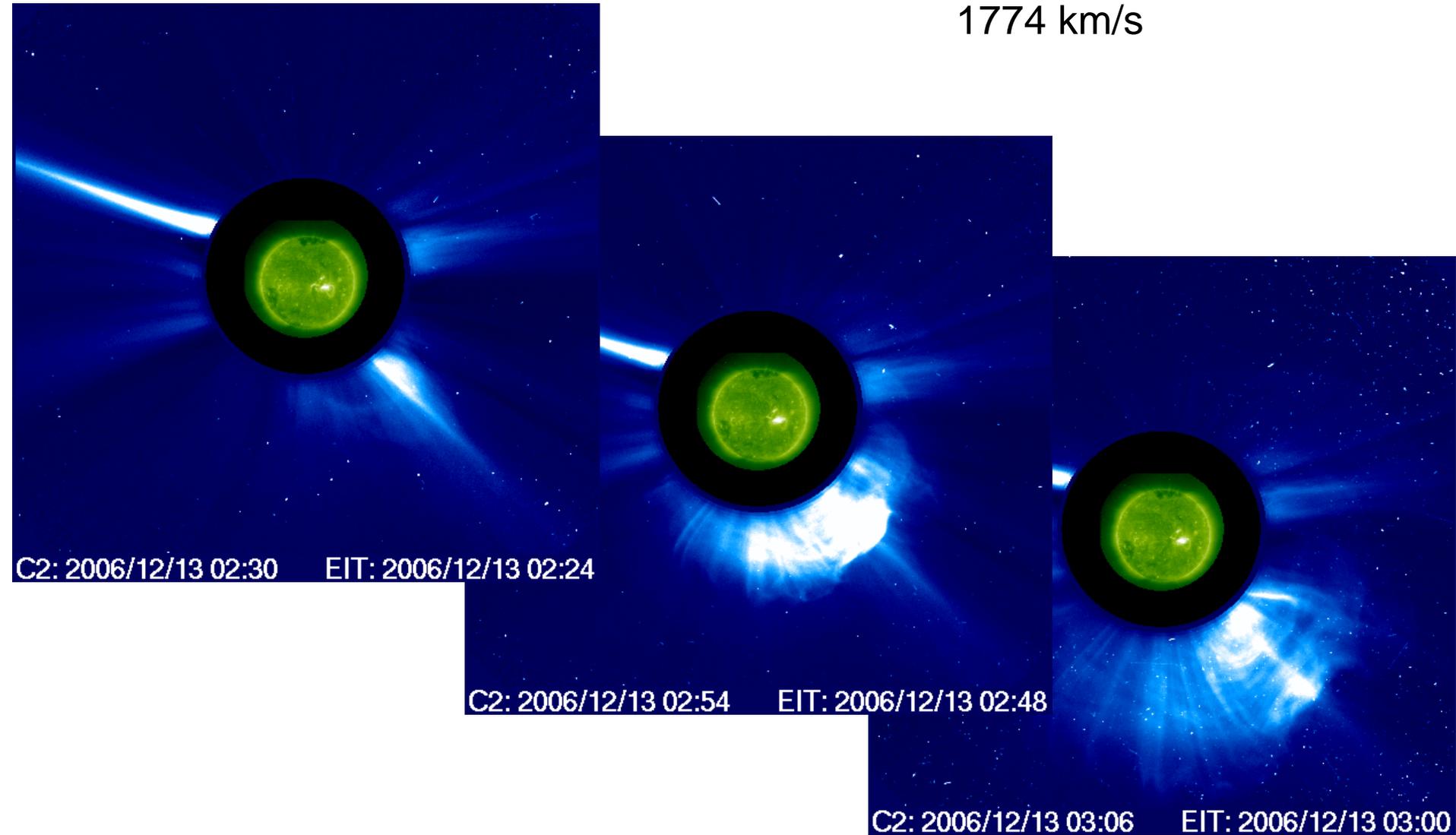
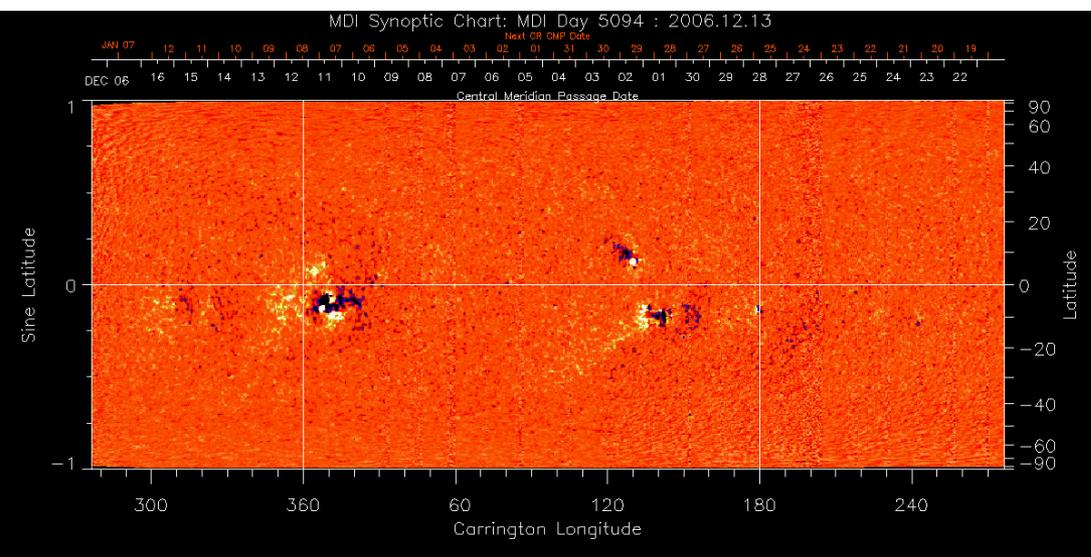


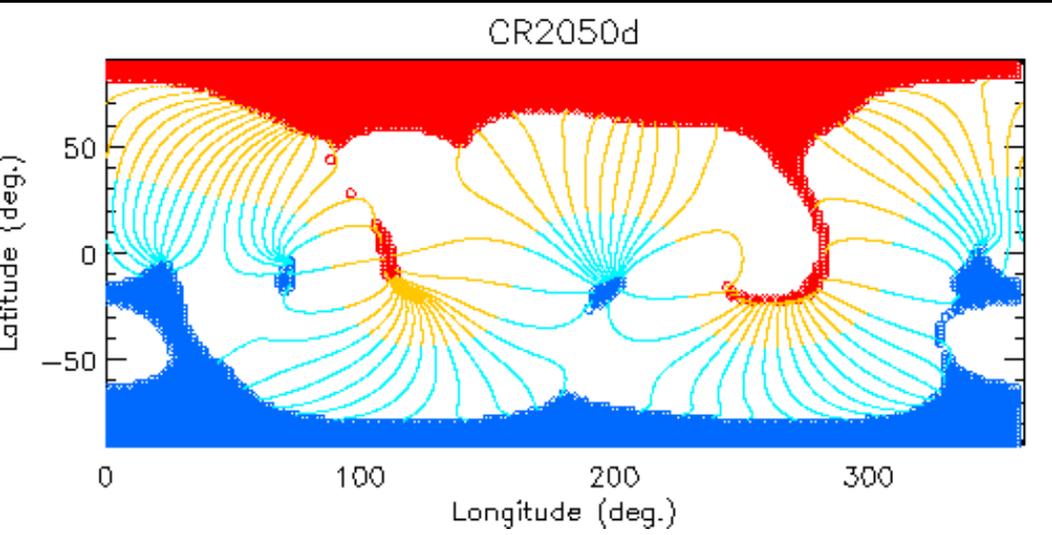
SOHO LASCO Halo CME on 2006/12/13 02:54:04 UT

1774 km/s





Left: daily updated MDI synoptic map for Dec. 13, 2006. The large active region (AR) 10930 is the source region of the CME.

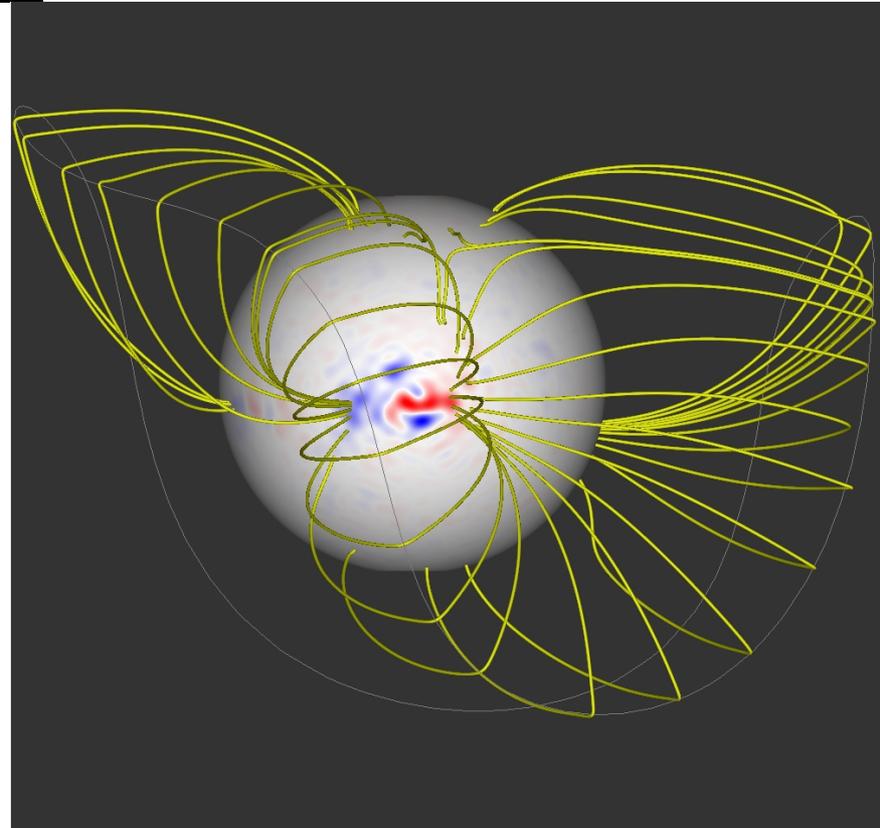


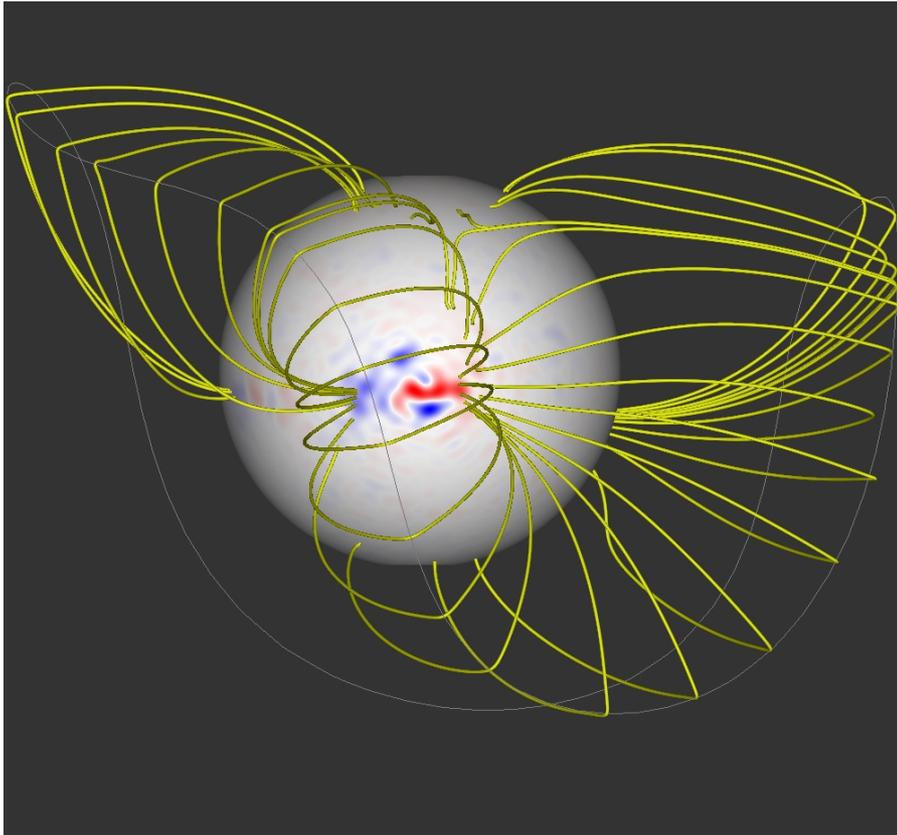
PFSS model based on MDI synoptic map.

Above: coronal holes and streamer arcade.

Right: 3D streamer arcade on magnetogram with center view of AR10930.

(Blue: + Red: -)

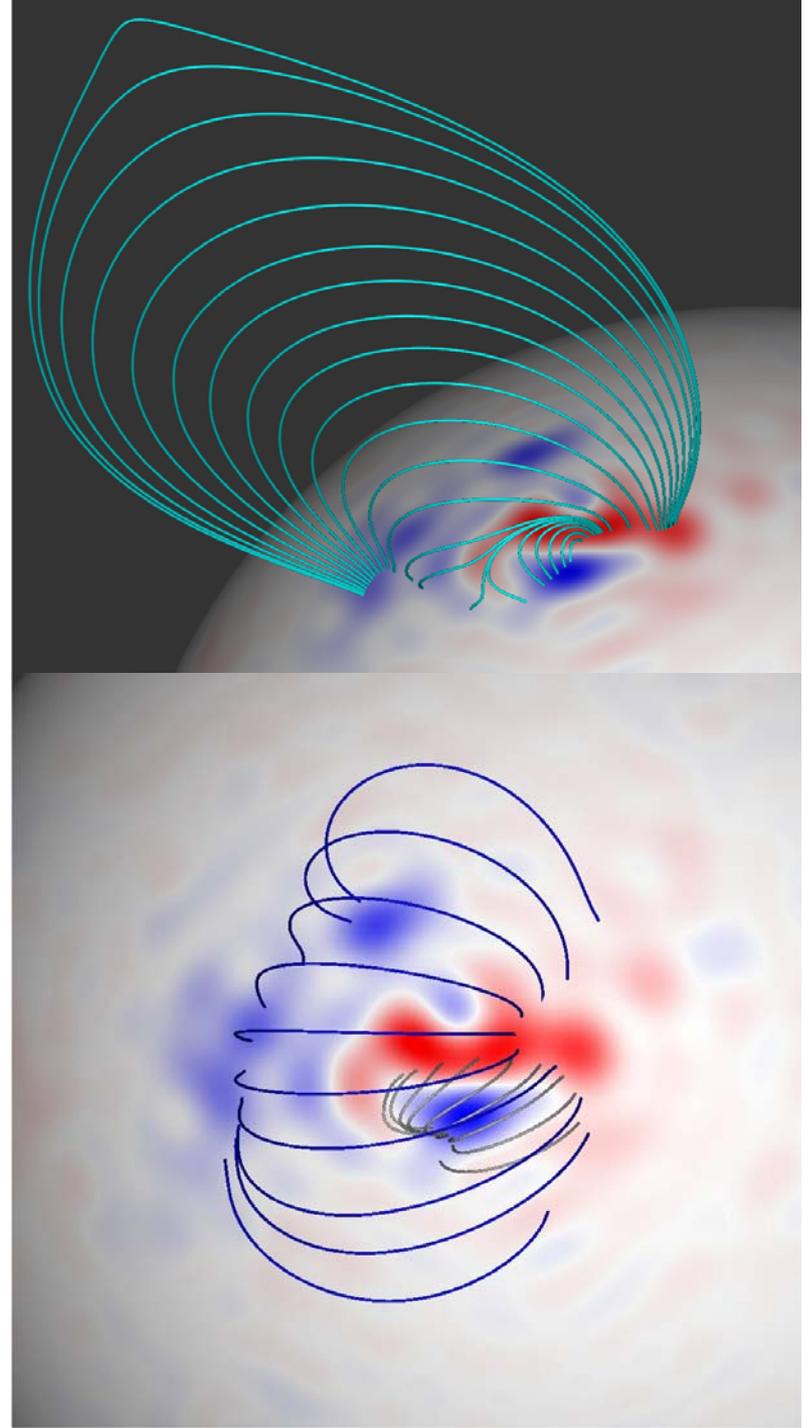




Above: 3D streamer arcade and AR10930.

Top-right: Field arcades from photosphere to source surface over the erupting neutral line. No magnetic null point found at this resolution, but finer scale will be analyzed.

Bottom-right: Near surface field arcades over the erupting neutral line.



The Magnetic Cloud of Dec. 14-15, 2006 at ACE and STEREO IMPACT A

*Li, Lynch and Luhmann
SSL UC Berkeley*

- ACE at L1 Observed the ICME at $\sim 900\text{km/s}$.
- Left: T, Np, Vx, Dyn, Br,t,n, |B|.
- The ICME shock arrived at $\sim 1400\text{UT}$, and MC $\sim 2300\text{UT}$.
- STEREO IMPACT(A) IMF (red) are overplotted on ACE data (black). The ICME has a $\sim 25\text{min}$ delayed at IMPACT, but features are otherwise almost identical.
- The MC fluxrope orientation (see Liu et al.) agrees better with the overlying streamer belt, and nearly orthogonal with the erupting neutral line and post-flare arcade.

