CME assignment one (Fri 6/6, due 6/13), ANSWERS

For the CMEs listed below, follow the CME analysis procedure described in the lesson and also submit answers to the following questions for each CME:

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HW#1 CMEs starting at
1) 2013-10-22T04:36Z
2) 2013-11-07T00:00Z
3) 2013-11-07T10:39Z
4) 2012-07-17T14:25Z
5) 2013-01-13T07:24Z
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Resources & iSWA layouts

* *StereoCAT: http://ccmc.gsfc.nasa.gov/analysis/stereo/*
* *40 Frame coronagraph and EUV movies http://go.nasa.gov/16bTvzK*
* *Where is STEREO? http://stereo-ssc.nascom.nasa.gov/cgi-bin/make_where_gif*
* http://cdaw.gsfc.nasa.gov/movie/
* *Solar Images with grid overlays http://www.solarmonitor.org/*

Fill out the form: http://bit.ly/2014cme1

a) What is the source location for this CME? (list the location e.g. N15E20, instrument/wavelength, and time of the observation).

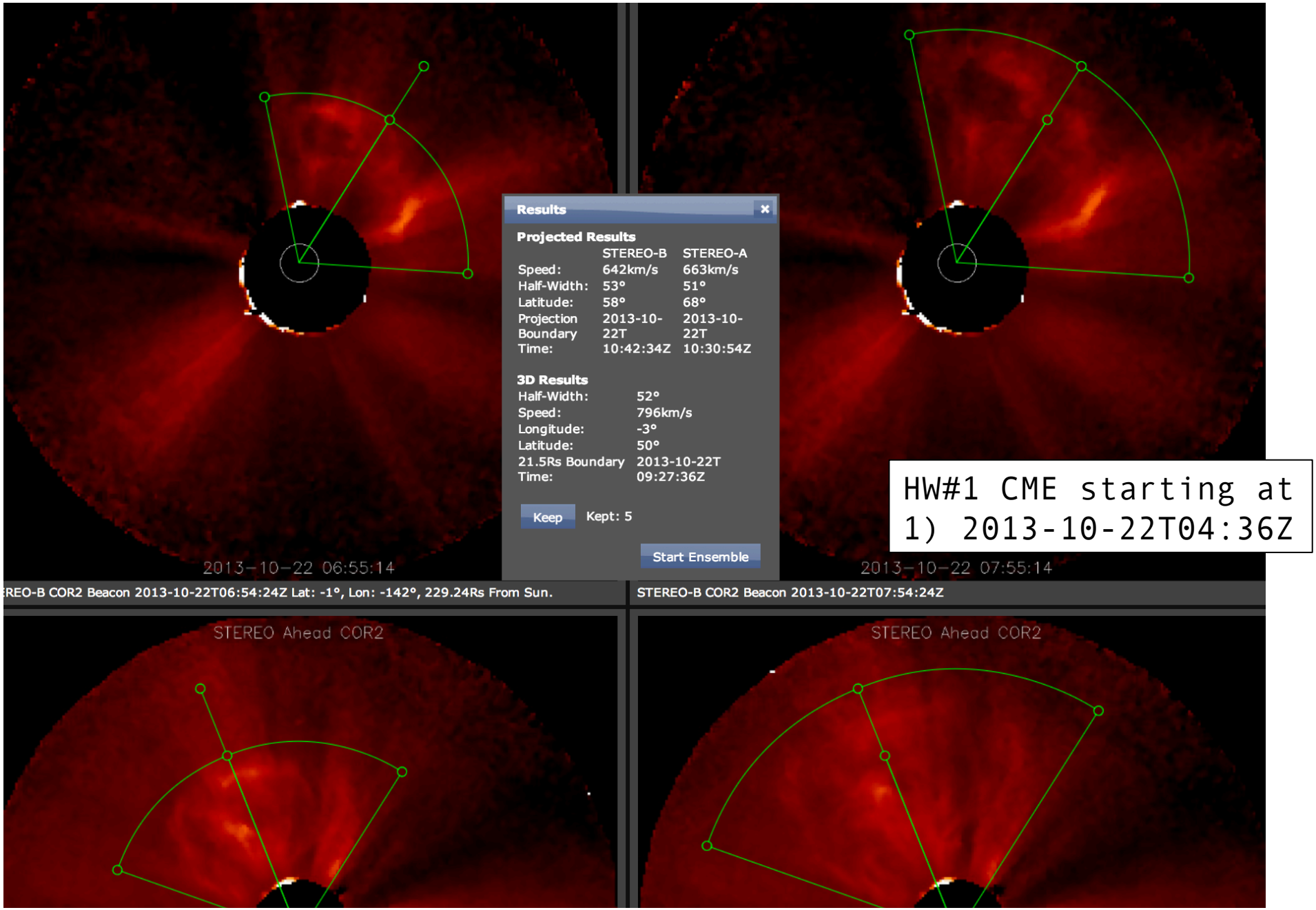
b) Describe the EUV lower coronal signature for this CME (e.g. flare, post eruption arcade/loops, rising loops, dimming, filament eruption).

c) Is the CME a halo in any of the coronagraphs? If so, is it moving away from or towards the observer?

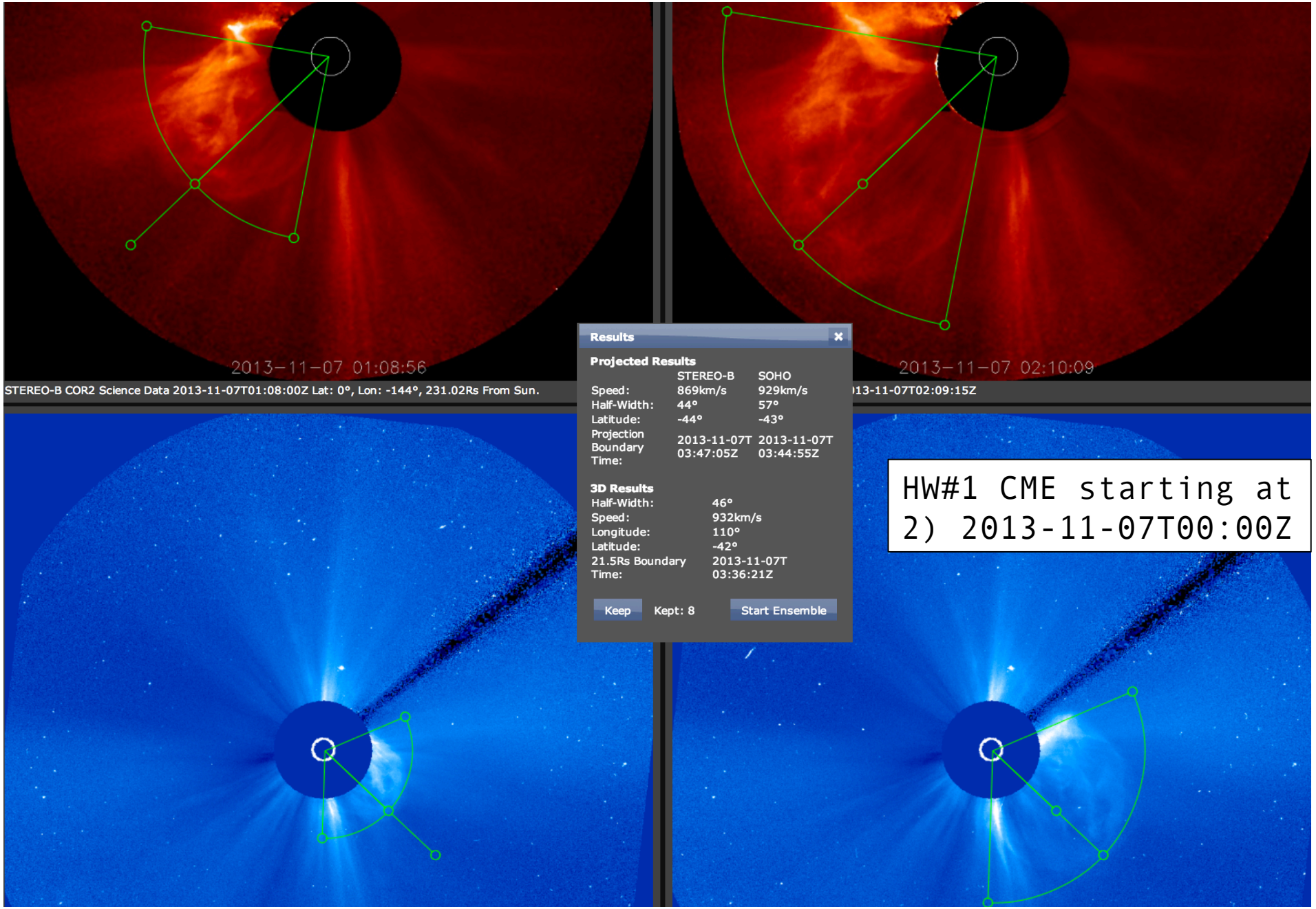
d) Which coronagraph instrument first observed the CME at the start time?

e) What are your final CME parameters (radial speed, half width, longitude, latitude, and time at 21.5 Rs (solar radii)).

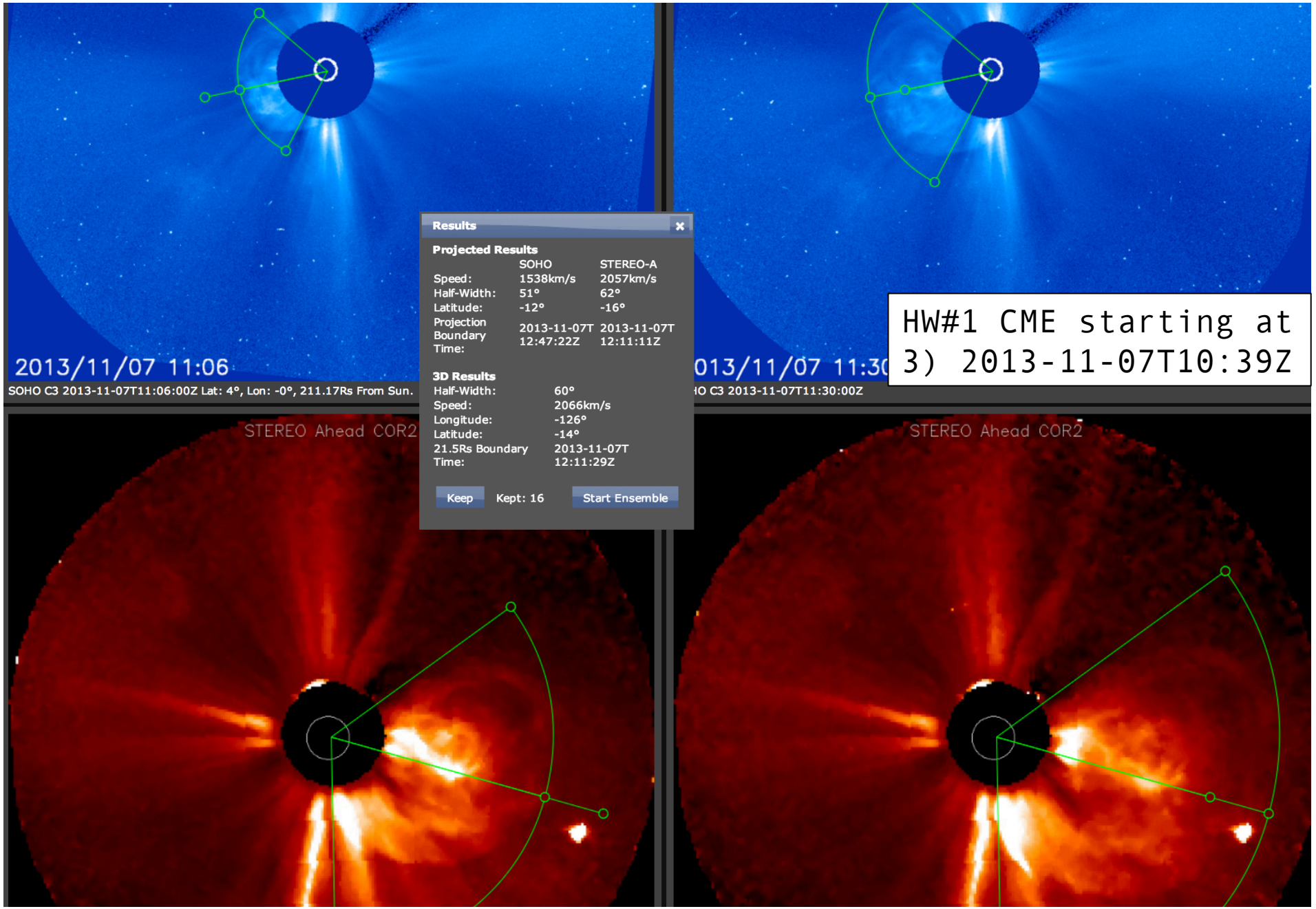
f) Submit your "Save URL" of your measurements.



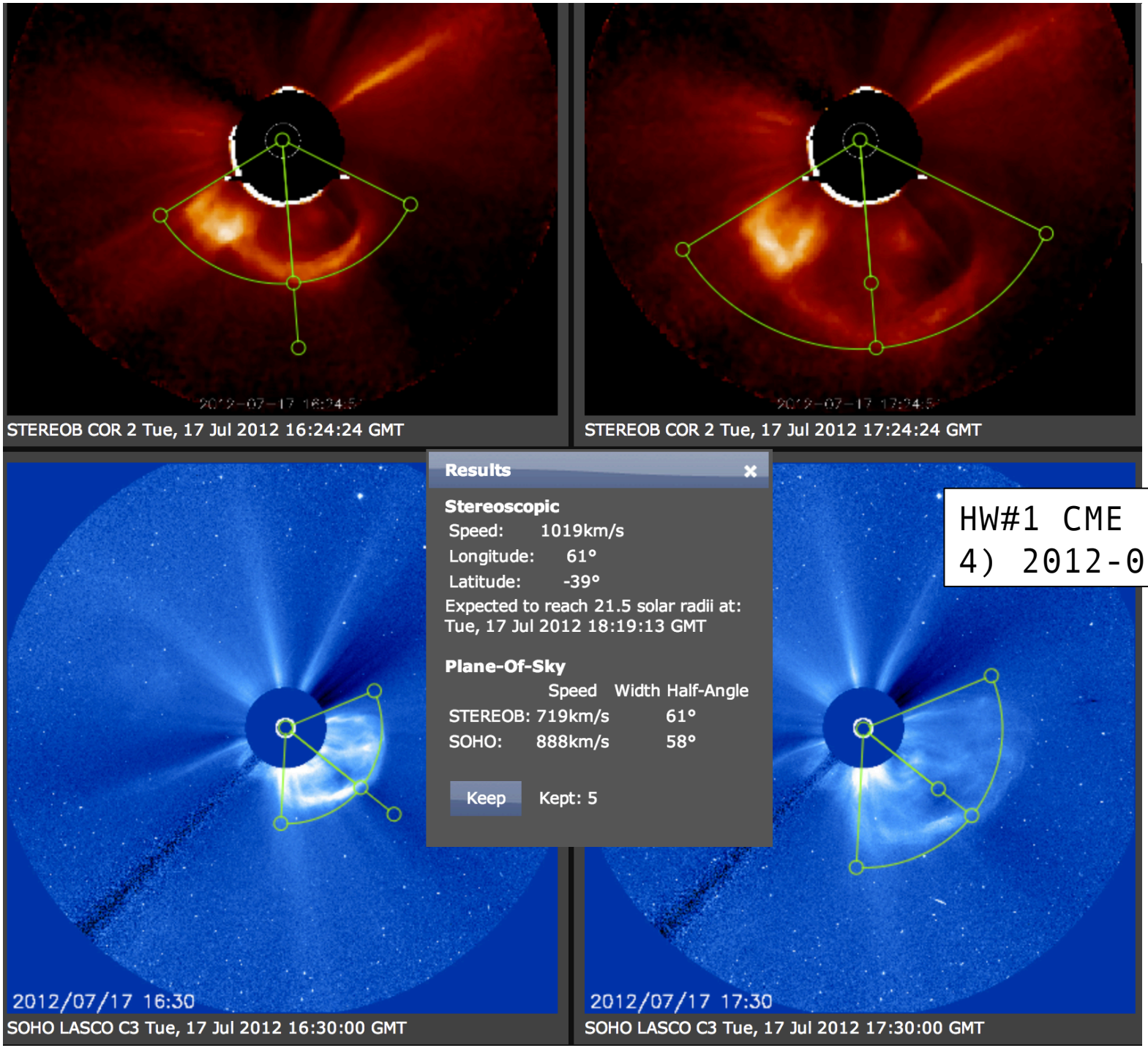
EUV Signatures: AIA: Slow rising filament eruption just north of disk center. EUVI: opening of corona off of NE limb in A, NW limb in B.



EUV Signatures: AIA: Filament eruption from west limb. EUVI: flare, eruption, post-eruption loops, dimming near AR east of disk center in A.

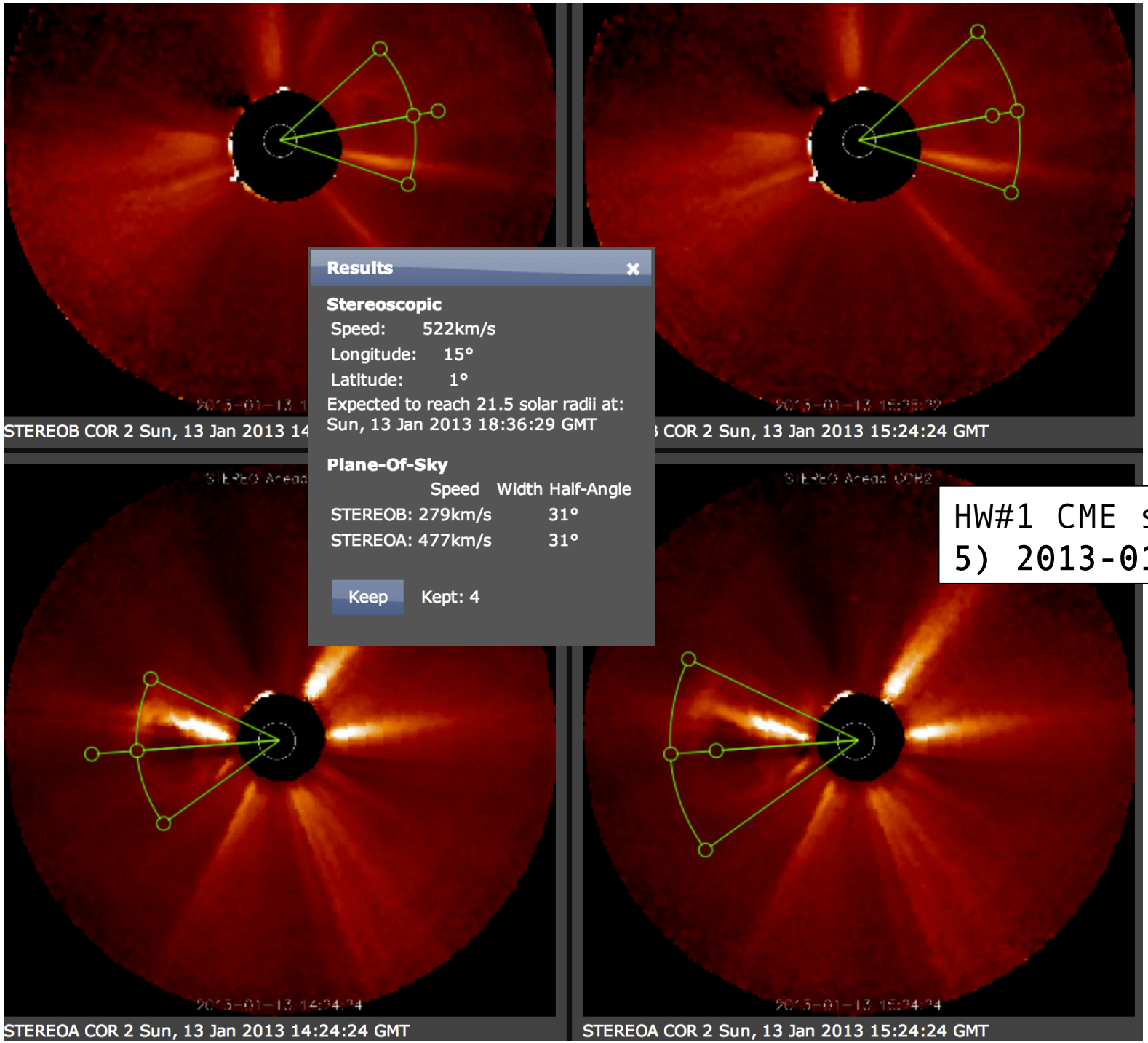


EUV Signatures: EUVI: flare brightening, eruption, dimming north of disk center in B, NW of disk in A.



EUV Signatures:
AIA: Eruption, rising loops in front of SW limb.
EUVI: eruption, rising loops off SE limb in A.

HW#1 CME starting at
4) 2012-07-17T14:25Z



EUV Signatures: AIA: flare from AR just north of disk center. EUVI: quick rising loops from behind NE limb in A.

HW#1 CME starting at
5) 2013-01-13T07:24Z