

## Summary of CME Assignments

### CME Assignment Instructions:

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 (fill out the forms):

- What is the source location for this CME? (list the location e.g. N15E20, instrument/wavelength, and time of the observation).
- Describe the EUV lower coronal signature for this CME (e.g. flare, post eruption arcade/loops, rising loops, dimming, filament eruption).
- Is the CME a halo in any of the coronagraphs? If so, is it moving away from or towards the observer?
- Which coronagraph instrument first observed the CME at the start time?
- What are your final **CME parameters** (radial speed, half width, longitude, latitude, and time at 21.5 Rs (solar radii)).
- Submit your "Save URL" of your measurements.

*Note: HW#2 has extra steps*

#### 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://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/>

#### Assignment forms:

- <http://bit.ly/2014cme0>
- <http://bit.ly/2014cme1>
- <http://bit.ly/2014cme2>

### **Due 6/6 Fri morning**

HW#0 CMEs starting at

- 1) 2014-05-12T12:18Z
- 2) 2012-10-05T03:24Z
- 3) 2012-07-12T16:54Z
- 4) 2013-02-26T14:06Z

### **Due 6/13 Fri morning**

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

### **Due 6/13 Fri afternoon**

HW#2 CMEs starting at

- 1) 2013-03-15T06:54Z
- 2) 2013-04-11T07:36Z
- 3) 2012-09-28T00:12Z
- 4) 2012-09-28T10:54Z
- 5) 2013-01-21T08:48Z

*HW#2 is optional, except forecasting interns*