Solar Cycle Update

O. C. St. Cyr (NASA-GSFC)
H. Xie (CUA)
The Official NOAA Viewpoint (Jan 2009)

ISES Solar Cycle F10.7cm Radio Flux Progression
Data Through 31 Dec 08

Updated 2009 Jan 3

NOAA/SWPC Boulder, CO USA
The Official NOAA Viewpoint (Sep 2009)

ISES Solar Cycle F10.7cm Radio Flux Progression
Data Through Sep 09

Updated 2009 Oct 6

NOAA/SWPC Boulder, CO USA
STEREOL Locations in January 2013
Preliminary CME Catalogue
St. Cyr (Jan-Aug 2007)
Hong Xie (Sep 2007-Sep 2008)
St. Cyr (Oct 2008-Jan 2009)

SOHO LASCO CME Rate in 1996-1997 was ~0.5 CMEs/day
STEREO & SOHO CME Rates

STEREO COR1 Preliminary CME Rate (12-Dec-2006 -to- 30-Sep-2009)
[966 days ==>481 CMEs]

Carrington Rotation Number

CME Rate [CMEs/day]

SOHO-LASCO 1996-1997-June1998 (841 CMEs)

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The Activity this Weekend

DAILY SUNSPOT AREA AVERAGED OVER INDIVIDUAL SOLAR ROTATIONS

Summary

• NOAA/NASA Solar Cycle 24 Panel predict a smaller and later maximum

• CR-averaged CME rate continues to be ~0.5/day, typical of solar minimum

• We appear to be only part-way through solar minimum phase based on
  – Duration of CME rate and 2800 MHz
  – Morphology of the white-light corona

• But, recent activity is at solar max latitude
Bonus Announcement!

- 2009 Heliophysics Roadmaps now available!