



STEREO

Science Working Group

Meeting No. 20

2009 October 27 - 29
Meredith, New Hampshire



STEREO Level 1 Science Requirements

Scientific Objective	Measurement Required	Progress
Causes & mechanisms of CME initiation	CME initiation to 10 minutes	Over <i>nnn</i> CME's observed. Full reconstruction on <i>mm</i> . Many more still to be analyzed.
	Location of initiation to 5°	
Characterize CME propagation	Evolution of mass and longitude extent to within 5°	
	Speed to within 10%	
	Direction to within 5°	
Mechanisms & sites of energetic particle acceleration	SEP distribution functions to 10%	Only 1 CME event this far; <i>nn</i> CIR's
	Location of particle acceleration to 0.5R _{Sun} or within 20°	
3-D, time-dependent model of solar wind	Time series of temp. to 10%	Continuous
	Time series of density to 10%	
	Time series of speed to 10%	
	Magnetic field direction to 10°	



“End of Prime Mission” Review

- NASA HQ, 2009 November 12
- Reviewers likely to include: Hayes, Fisher, Elsbernd, Guhathakurta, Earth Science program exec, budget person(s), one or two others (Jeff?)
- They want to see:
 - a mission overview
 - the systems and engineering aspects of the operations, and how those may have affected the science
 - a discussion of any foreign partnerships, and issues related to that.
 - the science overview, and how we got to the full completion of the Level 1's
 - a quick financial overview to show that you can get from Prime to Extended Phase E, and then



Financial status

- All PI teams fully funded at FY09 level through 2010 January 31
- February 1 - September 30: team funding cut to ~ 75% of FY09 level
- 2010 October 1 and beyond: ~ 50 - 55% of FY09 level
- Contract extensions: in place or nearly so
 - ▶ e.g. IMPACT contract at Goddard legal counsel's office (penultimate step before award)



NASA Travel Fuss update

- NASA domestic conference travel no longer limited
 - ▶ But we still have to register conference travel and report
- Limit of 50 NASA employees attending foreign meetings remains
 - ▶ Unlikely to affect any STEREO-focused meetings
 - But don't expect to see me at IAU or COSPAR



New Deputy PI, Co-I's

- Bob McDowall took over as S/WAVES Deputy PI, on Mike's retirement
- New S/WAVES Co-I's:
 - ▶ Briand, Issautier, Cecconi, Zouganelis (all at Meudon)
- New PLASTIC Co-I's:
 - ▶ Simunac (UNH), Opitz (CESR), Berger (Kiel)



- Solar Physics special issues
 - ▶ First double volume in 2009 May
 - 28 articles
 - ▶ Second double volume in 2009 October
 - 23 articles
- Publication rate for EoPM, senior reviews (bean counting)
 - ▶ 11 in 2007 growing to 121 in first ~10 months of 2009
 - ▶ Despite security issues in returning database to public access, *we are still taking input* so please keep sending Alex Young notices of publications



Project Scientist

- Mike Kaiser: after 45 years of NASA civil service and contractor effort, retired June 3
 - ▶ Took emeritus position: “just a plain old radio astronomer” working on Cassini, Wind, and STEREO
- Joe Gurman: 30 years of NASA civil service and contractor work
 - ▶ 4 months as STEREO project scientist
 - ▶ 17 of the last 24 years as project or mission scientist for one or more missions (*SMM, SOHO, TRACE*)
 - ▶ Not planning on retiring any time soon



Future meetings

- SWG 21
 - ▶ Dublin, Ireland (Trinity College to host)
 - ▶ 2010 March 22 - 26
 - ▶ Invite local solar and heliospheric community to participate
 - ▶ Peter Gallagher and James McAteer
- Proposal to hold joint STEREO-SOHO SWG and workshop in Kiel in 2011
 - ▶ Bernd Heber and Berndt Klecker
- Frequency
 - ▶ Extended mission, lower travel budgets: one per year
enough?



EoPM review agenda

- Thursday, November 12 at NASA HQ
- Presentations
 - ▶ Mission overview [15 min]
 - ▶ Systems and engineering aspects of ops [45 min] (Ron)
 - How did these affect science [10 min] ← **Need input**
 - ▶ Foreign partnerships [15 min]
 - Issues? ← **Need input**
 - ▶ Science overview [10 min]
 - How did we get to full completion of Level 1 requirements (less 2)
 - 3 or 4 examples [20 min] ← **Need input**
 - 2 counterexamples [5 min] ← **Need input**
 - ▶ Financial overview [10 min] (SSMO)
 - ▶ Quick summary [10 min]