

**STEREO**  
**Science Working Group**  
**Meeting # 19**

Feb. 3-5, 2009  
Pasadena, CA

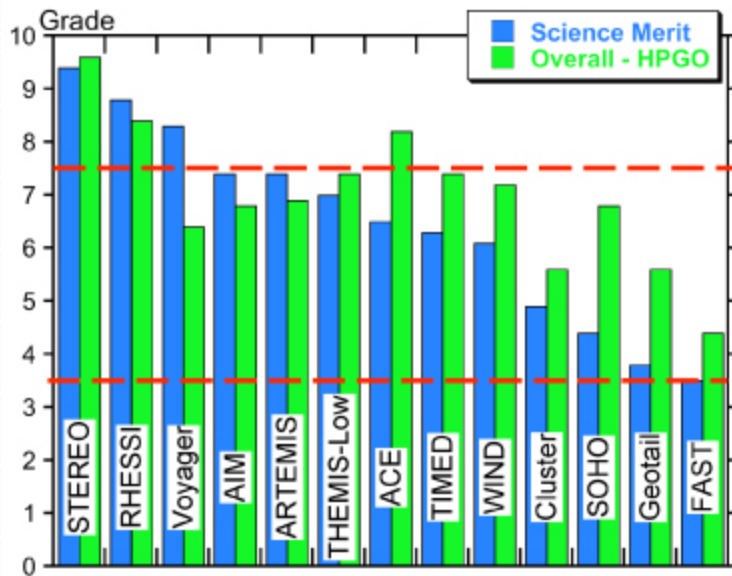
# Late agenda update

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	Ann Sandman Markus Aschwanden	Compare loops w. potential field models Tomography
<b>12:15 Lunch</b>		
1:30	Ying Liu Paulett Liewer Dusan Odstrcil Patsourakos et al. (Angelos Vourlidas) Ontiveros (Angelos Vourlidas) Jon Linker Zoran Mikic	CME reconstruction 3D CME trajectories Numerical modelling of STEREO CMEs Post-CME current sheet Modeling of CME-driven shocks MHD modeling for WHI EUVI modelling during August eclipse
<b>3:10 Break</b>		
3:30	Olga Panasenco Nat Gopalswamy Yan Li	Erupting prominences and helicity CME-Type II comparison ICMEs and Solar Sources
	<b>Jack Gosling</b>	<b>Flux rope ICMEs</b>
	Berndt Klecker Glenn Mason Mark Wiedenbeck	Pickup He obs. with STEREO PLASTIC 3He rich events: solar sources 3He rich event: in situ
<b>6:30-9:00</b>	<b>Dinner</b>	<b>Burger Continental</b>
<b>5-Feb General science contributions</b>		
<b>8:30 Breakfast goodies</b>		
9:00	Al-deyah et al. (Mihir Desai) Allengrini et al. (Mihir Desai) Mihir Desai Kristin Simunac Lan Jian Linghua Wang	Quiet-time Suprathermal tails Comp. of CME-shock accelerated ions Upstream Ion Events
10:30	<b>Break</b>	<b>Stream Interface Evolution</b> Ion cyclotron waves Terrestrial and anomalous ENAs
10:50	Alan Cummins Chris Russell Milan Maksimovic Chris St. Cyr	<b>Anomalous Cosmic Ray Gradients</b> Magnetic signature of dust pickup S/WAVES dust events: nano-particles SECCHI dust events

# Senior Review Results

Results from 2008 Heliophysics Senior Review



Partial extended mission  
Jan 22, 2009 – Jan 22, 2010  
Full extended mission  
Beyond Jan 22, 2010

# STEREO Level 1 Science Requirements

Scientific Objective	Measurement required	Progress
Causes & mechanisms of CME initiation	CME initiation to 10 minutes	Over 250 CMEs observed. Full 3-D reconstruction on about 2 dozen. Many more still be analyzed
	Location of initiation to within 5°	
Characterize propagation	Evolution of mass and longitude extent to within 5°	
	Speed to within 10%	
	Direction to within 5°	
Mechanisms & sites of energetic particle accel	SEP distribution functions to 10%	
	Location of particle accel to ½ Rs or within 20°	
3-D time-dependent model of solar wind	Time series of temp. to 10%	Continuous
	Time series of density to 10%	Continuous
	Time series of speed to 10%	Continuous
	Mag field direction to 10°	Continuous

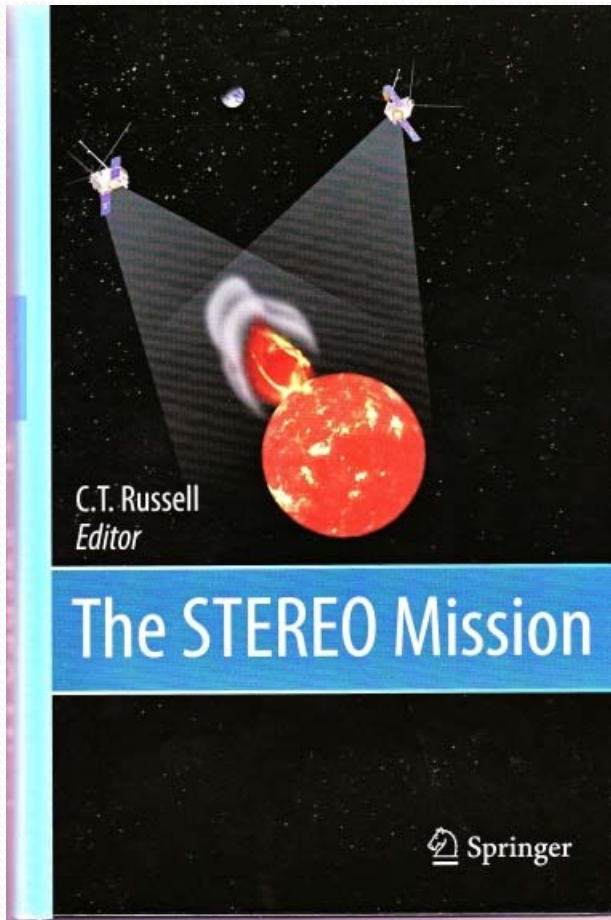
# Financial Status

- Full funding at current level through January, 2010
- February 2010 through September 2010 approx. 75% of current level
- October 2010 and beyond nominally only 40-45% of current level
  - Main goal of next Senior Review (Fall this year) is to augment funding
- Will start immediately on contract extensions beyond January 2010

# NASA Travel Woes

- NASA conference travel limited to \$5M in FY09 budget
  - In the authorization bill, signed into law
  - \$1200 per scientist
  - Applies to contracts, too. But apparently not JPL, not grants. (All STEREO contracts currently funded with FY08 money)
- Rumor that appropriations bill fixes the problem
- Also a limit on total number (50) of NASA employees attending foreign meetings
  - JPL exempt
  - Spring AGU (Toronto) first big test of this

# STEREO: The Book



Still have a few copies

# Pending co-Is

- S/WAVES four candidates
  - Carine Briand – Meudon
  - Karine Issautier – Meudon
  - Baptiste Cecconi – Meudon
  - Ionnis Zouganelis – Meudon
- PLASTCI three candidates
  - Andrea Opitz – CESR
  - Kristin Sumunac – UNH
  - Lars Berger – Kiel



# Solar Physics Topical Issue

- 75 'letters of intent' received
- 49 manuscripts submitted to date
  - 5 pending in next two weeks
  - 1 accepted; 1 rejected; all others in review/revision
- First double volume in May
- Second double volume in August

# My status

- NASA civil service + contractor years =45
  - 5.5 years as Project Scientist
- Will retire, nominally June 3
  - Will take emeritus position (just a plain old radio astronomer – Cassini, Wind, STEREO)
- New Project Scientist to be appointed soon
  - Officially appointed by Dick Fisher (Upon recommendation by Jim Slavin)
  - Several well qualified candidates (no surprises)



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# Future Meetings

- STEREO-3/Soho-22 Workshop
  - Bournemouth, UK
  - April 27-May 1, 2009
  - <http://www.sstd.rl.ac.uk/stereo-soho/>
- Fall SWG #20 – Toni Galvin to host
- SWG #21
  - Dublin, Ireland (Trinity College to host)
  - March 22-26, 2010