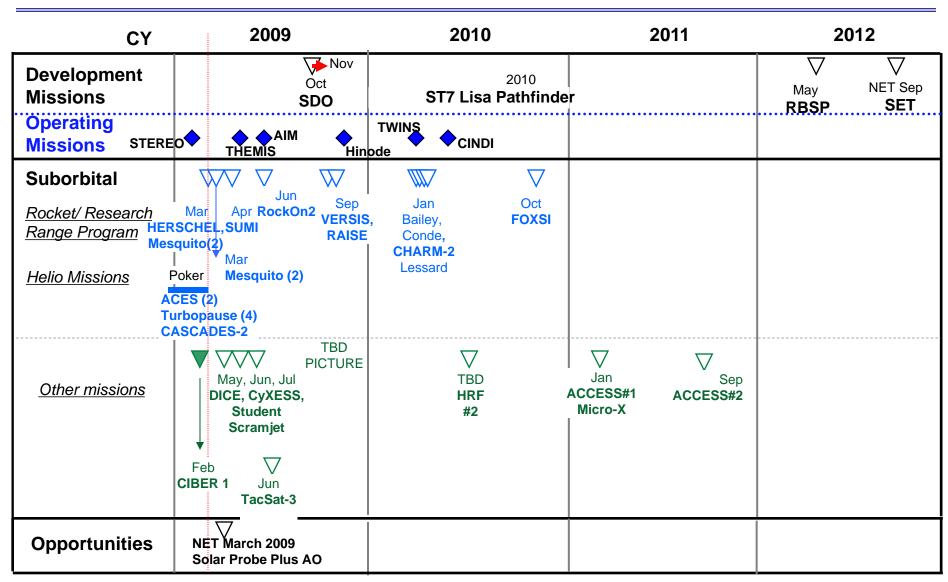


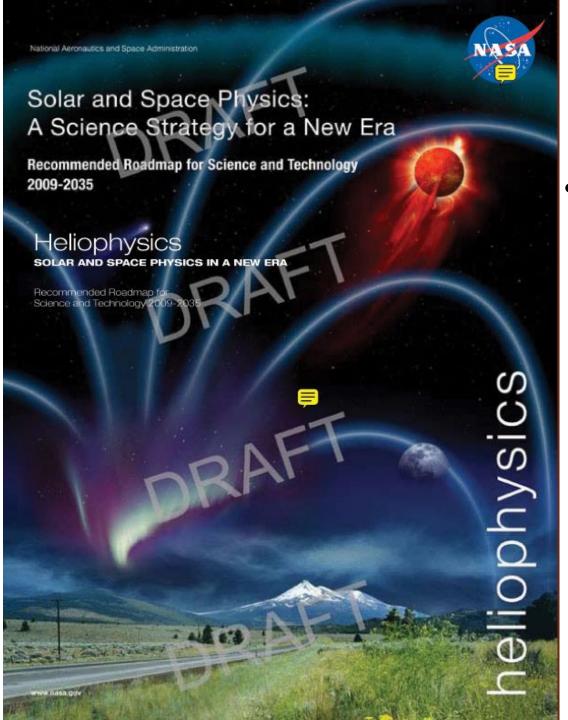
Division Status

April 29, 2009 Richard Fisher



Heliophysics Mission Events





Roadmap

2009 HPD
 Roadmap
 currently in
 review for HPS
 meeting on 19-21
 May 2009

Heliophysics SIGNIFICANT ACCOMPLISHMENTS And Upcoming Events



- Program Implementation Review conducted for Explorers, LWS, and STP Programs on Feb 10-11
 - **Presentations scheduled:**
 - DPMC May 18
 - APMC May 19

Explorers Program

Accomplishments/Upcoming Events

SMEX 12/13

- Concept studies (Phase A) received December 16, 2008
- Site visits and plenary sessions are underway and scheduled through April
- Selections for flight scheduled for late Spring 2009

Heliophysics SIGNIFICANT ACCOMPLISHMENTS And Upcoming Events

Living With a Star Program

Accomplishments

- BARREL Piggyback payload captured an energetic x-ray event on February 15
- DSCOVR Working action from NASA Authorization Bill
- RBSP Quarterly Review, Phase C kickoff, and SWG Meeting March 3 5
 - LV selection announced Atlas V
- SET-1 in storage at Kirtland AFB. DSX launch delayed to NET Sept 2012
- **SDO** Atlas launch queue delays (WGS) pushing SDO launch window into an early November start of the window (from our current Oct. 8 Nov. 6 window)

Upcoming Events

- Solar Probe Plus AO Release NET March 2009
- DSCOVR Plan due to Congress April 15
- SDO Pre-Ship Review Part 2, concentrating on launch site activities May 13
 - Astrotech processing facility congestion Ship date TBD
- RBSP- First instrument CDR June 2009

Heliophysics SIGNIFICANT ACCOMPLISHMENTS and Upcoming Events (cont'd)

New Millennium Program

- ST7 Payload delivery: awaiting ESA decision for ship date and location
- ST8 All Thermal Loop TRL6 criteria were certified by the TRB
 - Sailmast splice repair was completed
 - Dependable Multiprocessor final TRL 6 report is being drafted by Honeywell
 - Ultraflex successfully completed their air deployment tests. The vibration tests in vacuum will be delayed due to the unavailability of the test chamber

Solar Terrestrial Probes (STP) Program

- MMS Presentation to CMC on KDP-C costs completed March 20
- MMS Mission PDR/NAR May 4-8; DPMC KDP-C June 8; APMC June 17

Heliophysics Accomplishments:

- Geospace MOWG meeting Mar 17-18
- THEMIS/Artemis- Integrated Independent Review held, single RFA concerning orbit insertion of 2 outer probes to moon
- "Causes and Consequences of the Minimum of Solar Cycle 23"- New proposal opportunity released
- Sun-Earth Day March 20

Sounding Rockets and Range Progress and Upcoming Events

- Poker Flat 2009 Geospace Campaign
 - Turbopause launched successfully Feb 18.
 - Investigation of uppermost levels of neutral air turbulence in the Earth's atmosphere
 - Four Terrier Orion missions launched over a two hour period
 - Flight experiments employed multiple chemical releases and in-situ measurements combined with ground based observations from multiple locations
 - CASCADES-II successful launch March 20. (An investigation of motions & structures of electron precipitation in pre-midnight pole-ward edge discrete aurora)



 CIBER (Cosmic Infrared Background Experiment) launched successfully Feb 25.



Turbopause Launch

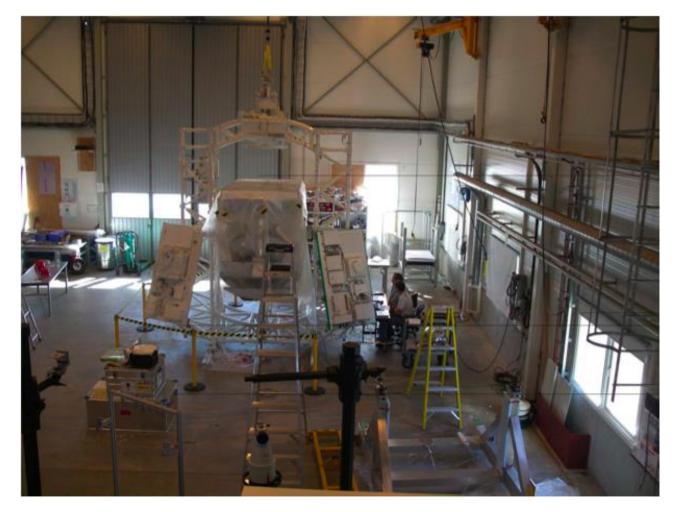


CIBER on the Rail



CASCADES II on the Launcher

High Resolution Telescope Payload Readied for Summer 09



KAO (Germany) and HAO/NCAR recently integrated the KAO Solar Telescope (1.3 M) to the balloon gondola at the Swedish Space Corporation's Esrange facility, some 200km North of the Arctic Circle, in preparation for Summer 2009 Flight Operations

Heliophysics SIGNIFICANT ACCOMPLISHMENTS And Upcoming Events

Solar Orbiter

Goal: To produce images of the Sun at an unprecedented resolution and perform closest ever in-situ measurements

NASA selected three instrument proposals for ESA-led Solar Orbiter mission:

Solar Orbiter Heliospheric Imager

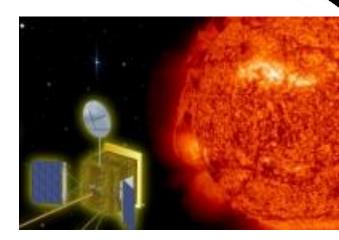
Russell Howard, principal investigator, NRL This instrument will provide revolutionary measurements to pinpoint coronal mass ejections or CMEs.

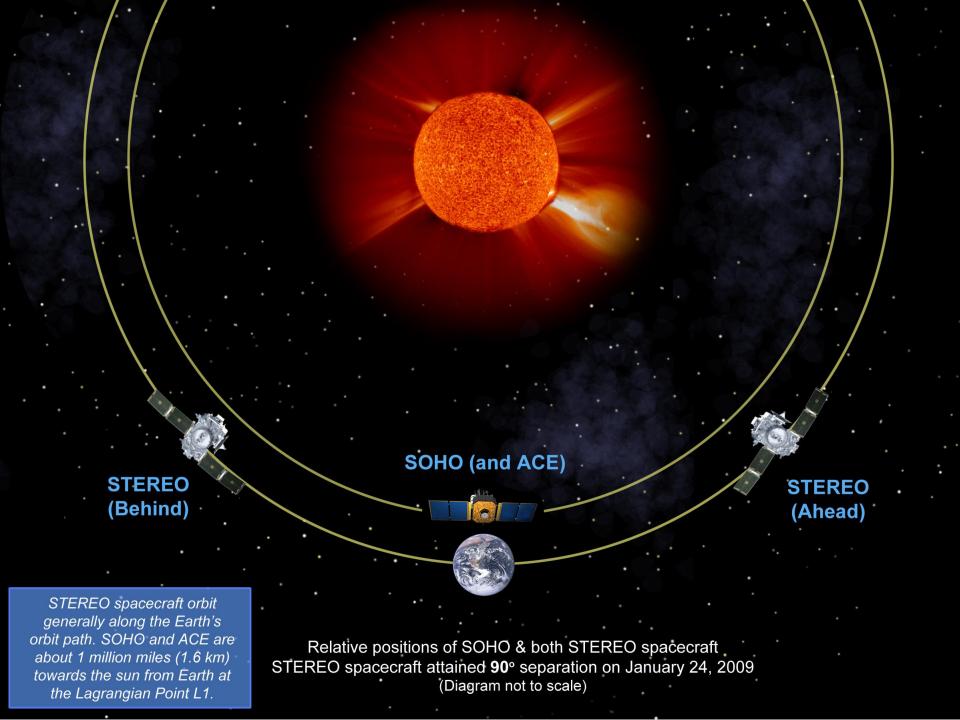


Donald Hassler, principal investigator, Southwest Research Institute, Boulder, Colo. This instrument will provide an extreme ultraviolet spectrometer or optical instrument that will measure different wavelengths of light emitted from the sun.

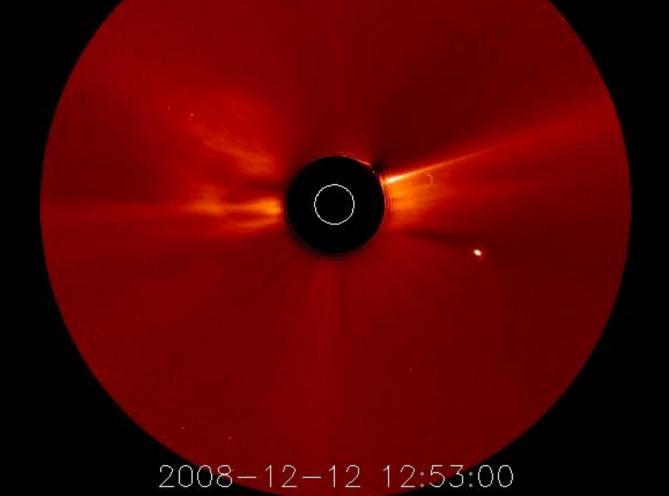
Suprathermal Ion Spectrograph

Lead co-investigator Glenn Mason, Applied Physics Laboratory This experiment will measure energetic particles ejected from the sun.



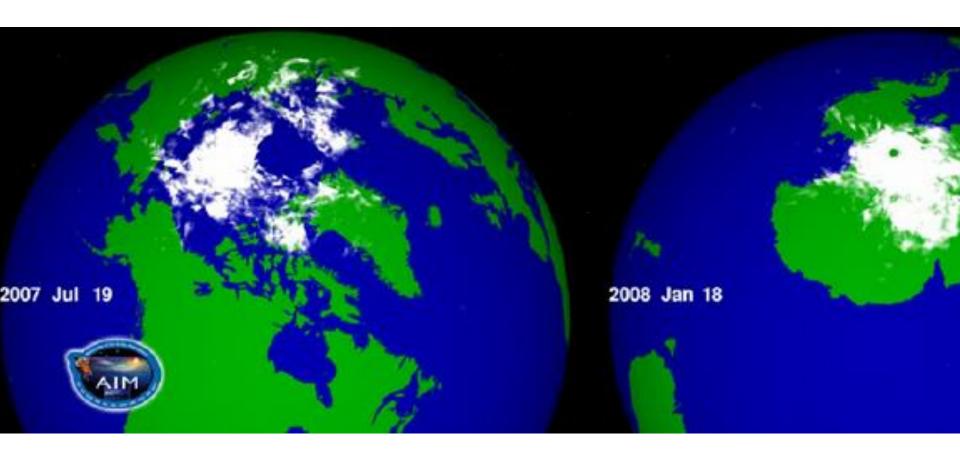


STEREO Ahead COR2





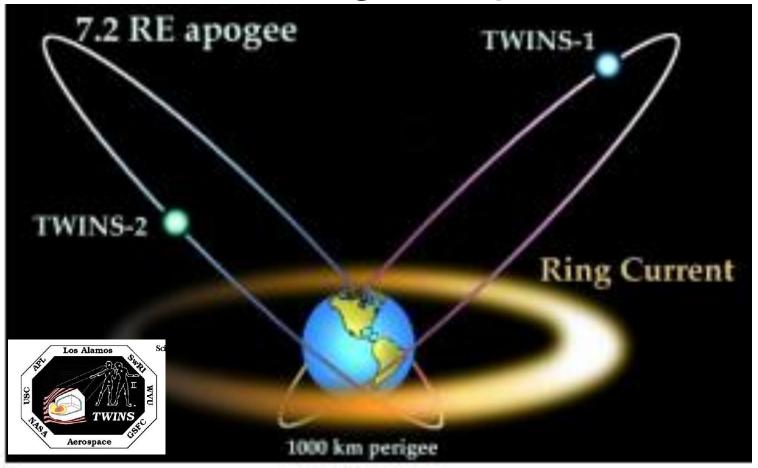
AIM



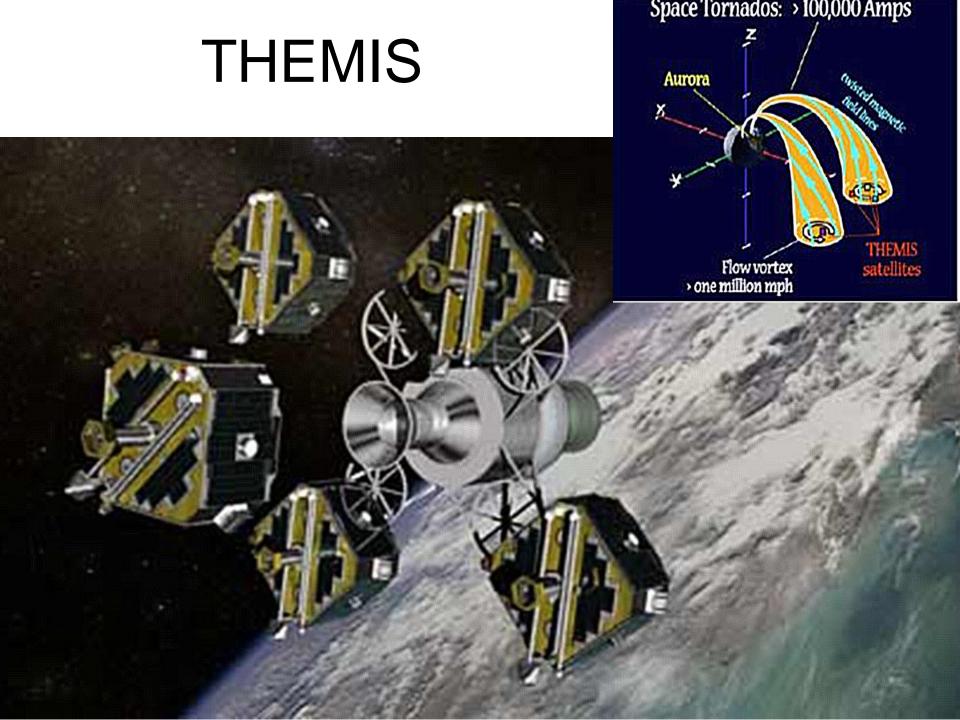
Completing 2nd Year of planned prime mission

C/NOFS - CINDI

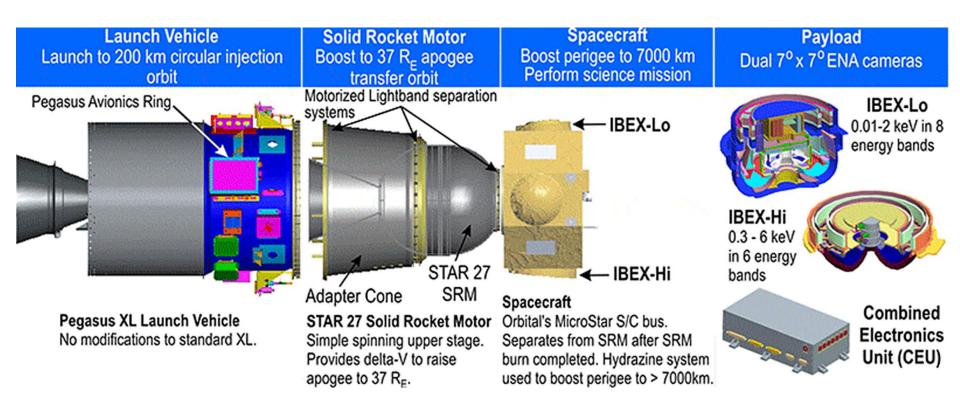
TWINS - Stereo Imager of the Earth's Magnetosphere



Special Session scheduled for Spring AGU 2009 Meeting



IBEX



- First All-Sky Map Anticipated Q3 2009
- Orbit slightl better than original plan
- Remaining fuel levels are high
- Possibility of investigation of longer term variation of the Heliosphere

QuickTime[™] and a TIFF (Uncompressed) decompressor are needed to see this picture.

- CCMC Mission StatementThe CCMC is a multi-agency partnership to enable, support and perform the research and development for next-generation space science and space weather.
- Latest Additions to the CCMC Services · Kameleon software:
 model output from different models can now be stored uniformly
 in a common science data format. Users can request the CDF formatted output for a CCMC run. · Movies on Request: you can
 now request to generate a movie, images and ASCII data files
 for each time step of a model run. · CCMC Space Weather on
 Google Earth: CCMC is now providing space weather-related
 Google Earth overlays.







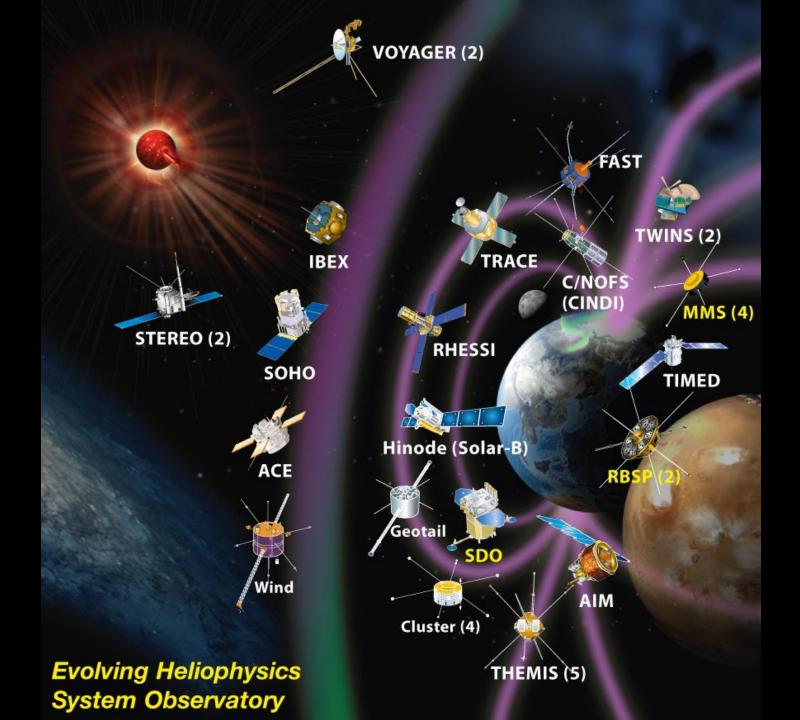












Heliophysics: Science for SWx

