

Minutes of the 41st SOHO SWT Meeting

Northeast Harbor, Maine, USA

22 September 2009

Agenda

- 1) 360° science roll
- 2) Status of final SOHO archive
- 3) Transition to Bogart mission
- 4) Science operations during Bogart mission
- 5) Future SOHO workshops

Participants

R. Bush (MDI), W. Curdt (SUMER), B. Fleck (ESA), A. Gabriel (GOLF), J. Gurman (EIT, NASA), T. Hoeksema (MDI), R. Howard (LASCO), J. Kohl (UVCS), G. Noci (UVCS), E. Quemerais (SWAN), P. Scherrer (MDI),

Summary & Actions

41-1: on instrument teams interested in 360° roll: contact SOCs to coordinate plans.

41-2: on PIs: provide calibrated data for SOHO archive before 31 December 2009.

- New SOHO archive at ESAC: <http://ssa.esac.esa.int/ssa/ssa.jnlp>
Please test and send comments to Luis.Sanchez@sciops.esa.int.

41-3: on PIs: update and complete information in NSF Facilities Assessment Database at <http://www.eol.ucar.edu/fadb/resource/list?type=SolarInstrument> before 16 October.

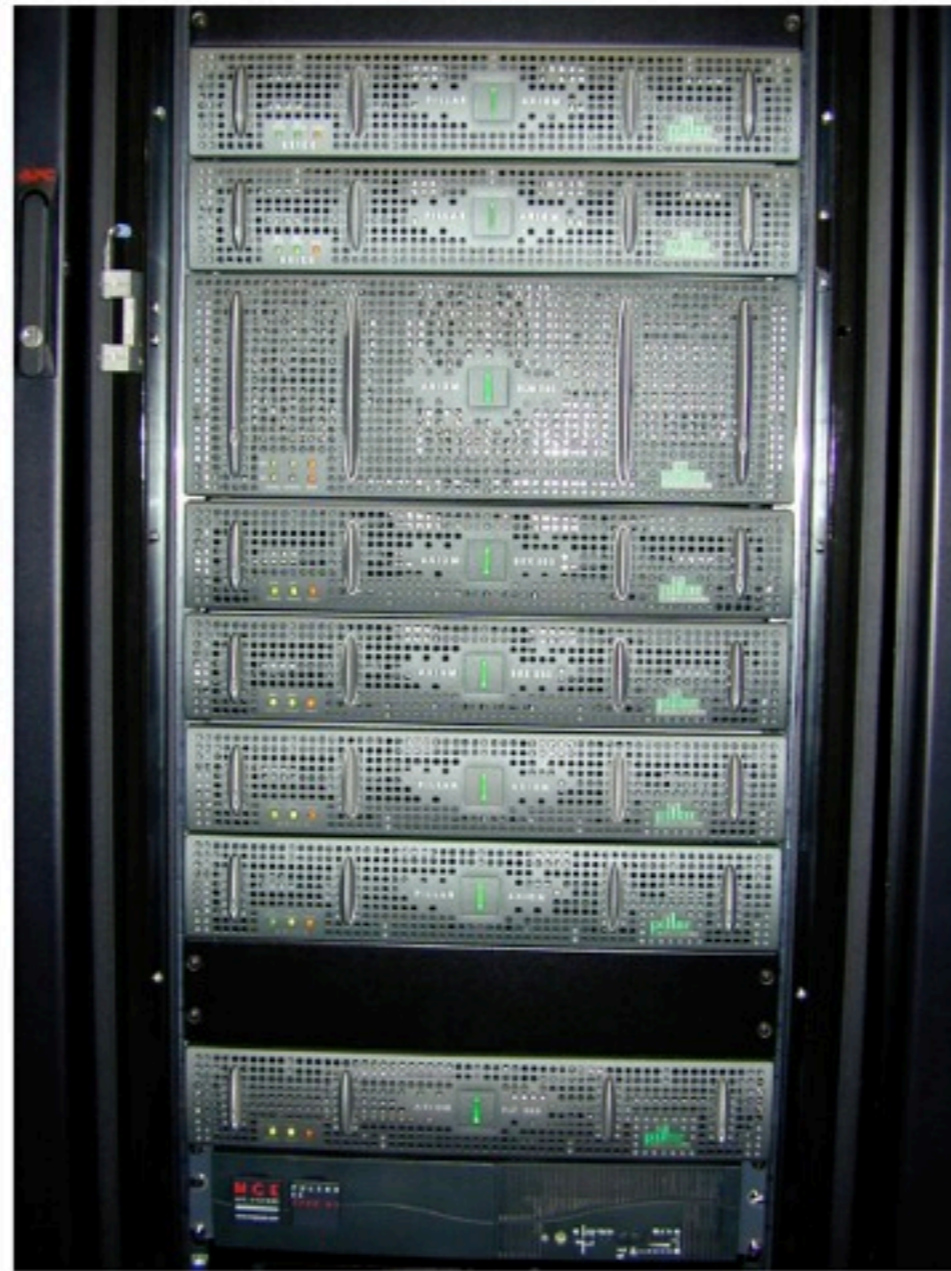
41-4: on PIs: provide updated points of contact and staffing plans for instrument operations at GSFC during Bogart mission before 31 December 2009 (see slide 14 below).

360° Science Roll

- Target date: 26 October 2009 (backup 10 Nov)
- Driven by MDI requirements
- CDS, SUMER, SWAN?
- 8 dwells, 45° apart
- Roll time: 8 min per segment
- 20 min stabilizing time
- 10 min for star mapping and download
- 10 min science obs
- Instruments can take science data before the end of stabilization and during star mapping
- Total duration < 10 hours

Status of Final SOHO Archive

SOHO Mission Archiving Plan



SUBMITTED IN CONJUNCTION WITH
SOHO PROPOSAL TO THE SENIOR REVIEW OF HELIOPHYSICS OPERATING
MISSIONS, 2008 FEBRUARY.

New SOHO Archive @ ESAC

<http://ssa.esac.esa.int/ssa/ssa.jnlp>

SOHO Science Archive v1.0.beta4

File View Windows Actions Tools Help

Search

Results Display

Results Observations Studies Campaigns

Sort Criteria

Main Query Panel

Begin Date End Date

Instrument
CDS
CELIAS
COSTEP
EIT
ERNE

Objective Obs Type Campaign Name

Object Wavelength Study Name

Calibrated

Instruments Panel

CDS | CELIAS | COSTEP | EIT | ERNE | GOLF | LASCO | MDI | SUMER | SWAN | UVCS | VIRGO

Detector Proc Level File Name

Obs Mode Obs Name Compression

Slit Id

Clear Cancel Query

Log Console Not Logged In



[15,676 Results] Page 1 of 1,568 Page Size: 10

Instrument	Detector	Observation Type	Date Range
EIT	EIT	SMS	20:48:09 11/11/2008 20:48:14 11/11/2008
EIT	EIT	SMS	21:13:02 11/11/2008 21:13:08 11/11/2008
EIT	EIT	SMS	21:24:09 11/11/2008

Campaign: Synoptic Data for all Instruments
Objective: CME WATCH 195 (SM5)
Proc Level: LZ file
Wavelength: 195 Angstrom
Object: Full Sun/Full Disk
File Name: efz20081111.211302

Study:
Observatory: SOHO
Calibrated: false
Data Type: FITS
File Size: 535,680 byte

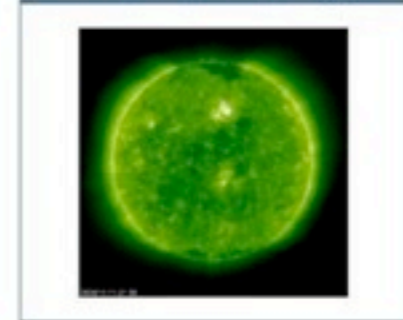
EIT Observation Details [2717915]

Id:	2717915
Instrument:	EIT
Observatory:	SOHO
Detector:	EIT
Obs Type:	CME WATCH 195 (SM5)
Object:	Full Sun/Full Disk
Objective:	CME WATCH 195 (SM5)
Proc Level:	LZ file
Begin Date:	21:36:09 11/11/2008
End Date:	21:36:15 11/11/2008
File Name:	efz20081111.213609
File Format:	FITS
File Size:	535,680 byte
Wave Range:	195 Angstrom
Obs Name:	195_105_AL_1.000
Obs Mode:	backside
Fov Position:	0.0,0.0 arcsec
Fov Angle:	0 degree
Fov Size:	[512],[512] arcsec
Spatial Res:	5.26 arcsec
Exp Count:	1
Exp Time:	5.897 second
Origin:	Rocket Science
Wave List:	N/A Angstrom

Postcard



20081111_2136_eit195_1024.jpg



Report Panel

Program	Observations EIT #2
Instrument	Observations LASCO #1

Log Console

Not Logged In

SOHO Science Archive v1.0.beta3

File View Windows Actions Tools Help

Search Time Animator Observations EIT #1 Observations LASCO #1 Observations EIT #2

Time Animator Filters

Instrument/Filter:

- All
- EIT 171
- EIT 195
- EIT 284
- EIT 304
- LASCO C2
- LASCO C3
- MDI Continuum
- MDI Magnetogram

Resolution: 512

Max Number of Evenly Spaced Images: 50

Begin Date: 09/09/2008 00:00:00 End Date: 17/09/2009 23:59
dd/MM/yyyy HH:mm:ss

Close All Clear

Time Animator Result

Filter	Images	Play Movie
EIT195	50	▶
LASCO C3	50	▶
MDIMagnetogram 96m	50	▶

Report Panel

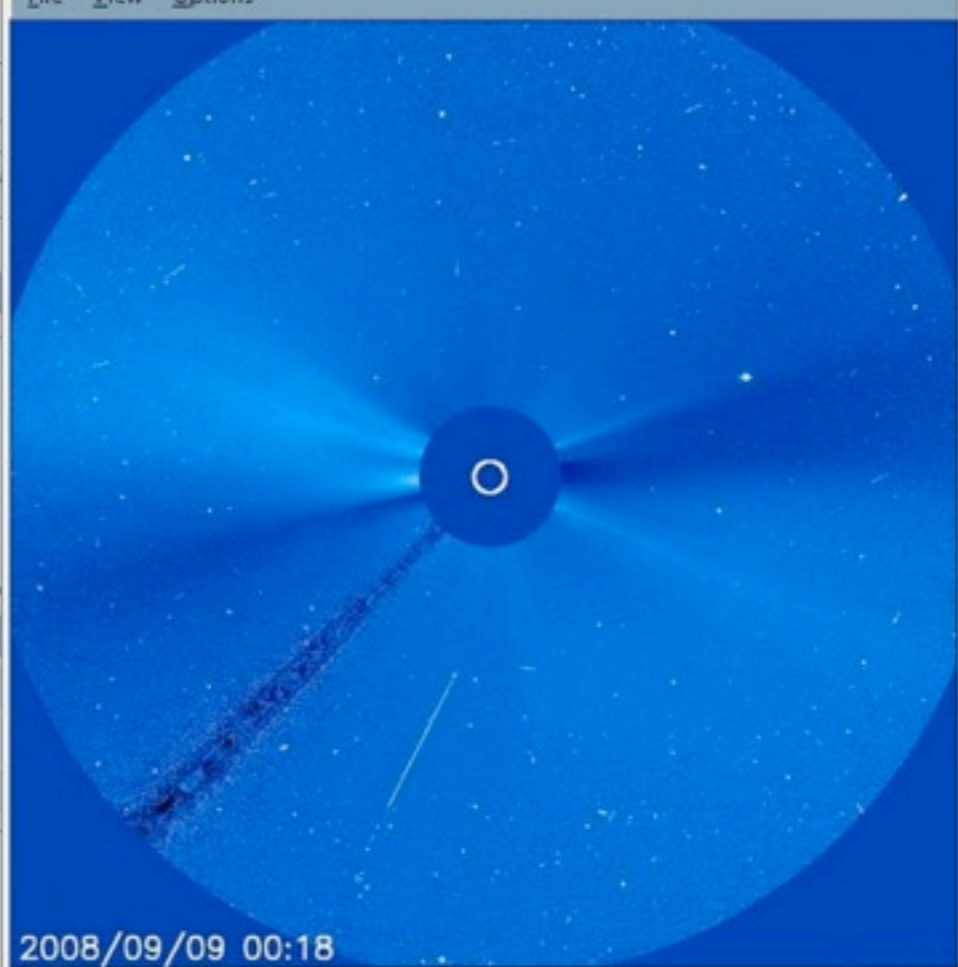
Progress Report

Instrument	Result
EIT	Observations EIT #2
LASCO	Observations LASCO #1


Log Console Not Logged In

Soho Time Animator for LASCO C3 #1

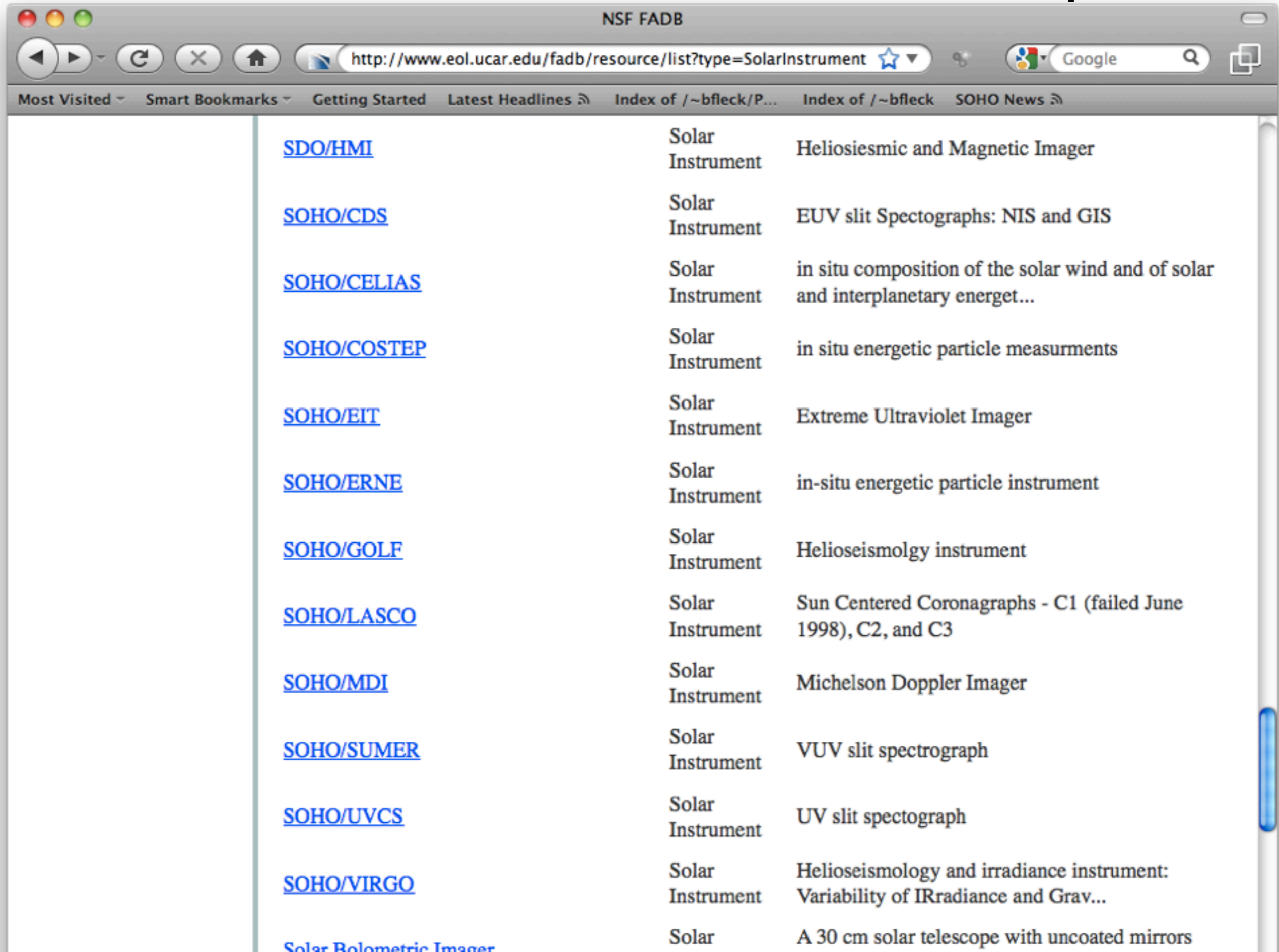
File View Options



2008/09/09 00:18

01/50 

NSF Facilities Assessment Database Update



Instrument Name	Type	Description
SDO/HMI	Solar Instrument	Heliosiesmic and Magnetic Imager
SOHO/CDS	Solar Instrument	EUV slit Spectrographs: NIS and GIS
SOHO/CELIAS	Solar Instrument	in situ composition of the solar wind and of solar and interplanetary energet...
SOHO/COSTEP	Solar Instrument	in situ energetic particle measurments
SOHO/EIT	Solar Instrument	Extreme Ultraviolet Imager
SOHO/ERNE	Solar Instrument	in-situ energetic particle instrument
SOHO/GOLF	Solar Instrument	Helioseismolgy instrument
SOHO/LASCO	Solar Instrument	Sun Centered Coronagraphs - C1 (failed June 1998), C2, and C3
SOHO/MDI	Solar Instrument	Michelson Doppler Imager
SOHO/SUMER	Solar Instrument	VUV slit spectrograph
SOHO/UVCS	Solar Instrument	UV slit spectrograph
SOHO/VIRGO	Solar Instrument	Helioseismology and irradiance instrument: Variability of IRradiance and Grav...
Solar Bolometric Imager	Solar	A 30 cm solar telescope with uncoated mirrors

FACILITIES ASSESSMENT
DATABASE

[HOME]

**Database
HOME****Facilities Assessment
Home****EOL Field
Campaigns****EOL
Home****NSF
Home****Contact Database
Administrator**[Log in](#)
[Create account](#)
[Recover password](#)[HOME](#)

Version: 1.02, 2009 September 4

[Return to
listing](#)[Return to home
page](#)[Submit revision of
resource](#)[Duplicate
resource](#)[Report problem with
resource](#)**Solar Instrument**

Last modified: 2007-09-27 11:01 MDT

Resource

Resource name : SOHO/EIT

Description : Extreme Ultraviolet Imager

Availability : Ongoing since 1995

Request procedure : Request procedure is available to logged-in users only.
Please create an account (if you don't have one) and log in to see this information.Web site : <http://umbra.nascom.nasa.gov/eit/>

Status : PI instrument and archive

References : Delaboudinière et al. 1996, Solar Physics 162, 291

Remarks : First long-duration, EUV multilayer solar telescope

Contact informationContact information is available to logged-in users only. Please [create an account](#) (if you don't have one) and [log in](#) to see this information.**Details**

Spectral range : 171, 195, 284, 304 A

Spectral resolution : EUV multilayer

Contact information

Contact information is available to logged-in users only. Please [create an account](#) (if you don't have one) and [log in](#) to see this information.

Details

Spectral range : 171, 195, 284, 304 A
Spectral resolution : EUV multilayer
Spatial resolution and coverage : 2.6 arc sec, 2660 x 2660 arc sec
Temporal resolution : usually 12 min, sometimes down to 30 s
Data accuracy :
Data precision :
Physical observables : EUV flux
Derived outputs : plane of sky speeds of transient events
Concurrence opportunities :
Expected lifetime : ~ 2014
Location or orbit : L1 halo
Capability summary :
Scheduling :
Archival data summary :
Number of users :
Planned upgrades : None
Sub-instruments : None
Data products : Images
University facility : no
National-Ground based : no
Satellite : yes
Archival/Virtual : yes
Used for Calibration : no

Entry submitted by: Joe Gurman

Transition to Bogart Mission (I)

- Current SDO launch date: 3 Feb 2010, i.e. significantly later than originally anticipated
- Start of Bogart mission not delayed as long as MDI-HMI intercalibration can take place during continuous campaign scheduled for 2010 May 8 - July 13
- Could presumably accommodate an SDO launch date as late as mid-March, 2010
- Wrecker's ball starts flying in Bldg. 26 ~ 2010 October 1, so need to move EAF/SDAC before

Transition to Bogart Mission (II)

- SUMER kindly sharing some office space with ECS/SLE/&c. software developer
- We have begun to lose SOCs
 - Gavin leaves this month
 - Tero leaves end of January
 - Emily stays with us until the MDI-HMI campaign is complete, but only half time
- On October 1, we begin to lose more FOT support (number of OE's remains the same)

Science Ops during Bogart Mission

- No SOC support
 - ▶ no SOC voicemail or SOC e-mail
 - ▶ no monthly, weekly, daily meetings
 - ▶ no monthly calendar
 - ▶ no campaign or rocket flight coordination
 - ▶ maneuver planning: standardized plan, provided by FOT
 - ▶ keyhole planning: basic VGL (VIRGO, GOLF, LASCO) most of the time
 - ▶ ECS system: local teams will be trained to restart and operate system
 - ▶ no more “full service” system (EOF → BOF)

Science Ops during Bogart Mission

- Points of Contact:
 - ▶ instruments and spacecraft: FOT
 - ▶ network/computer: Amy Forinash & Marc Despres
 - ▶ data: Luis Sanchez & George Dimitoglou

What we need from you for the Bogart mission

- Updated points of contact
- Updatable GSE (almost everyone already has)
 - If not, please talk to Joe this week
- Firm plans on how you intend to operate
 - Number of people at “BOF” at Goddard (incl. during campaigns)
 - Whether command will be generated at home institution instead of at BOF
 - Whether BOF systems are involved

Future SOHO Workshops

- **SOHO-24 / GONG 2010:**
A New Era of Seismology of the Sun and Solar-like Stars
June 27- July 2, 2010 in Aix-en-Provence, France
- **follow up of STEREO-3/SOHO-22 in Bournemouth?**
- **any other volunteers / suggestions?**