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# The Swift Science Center and You

Stephen Holland

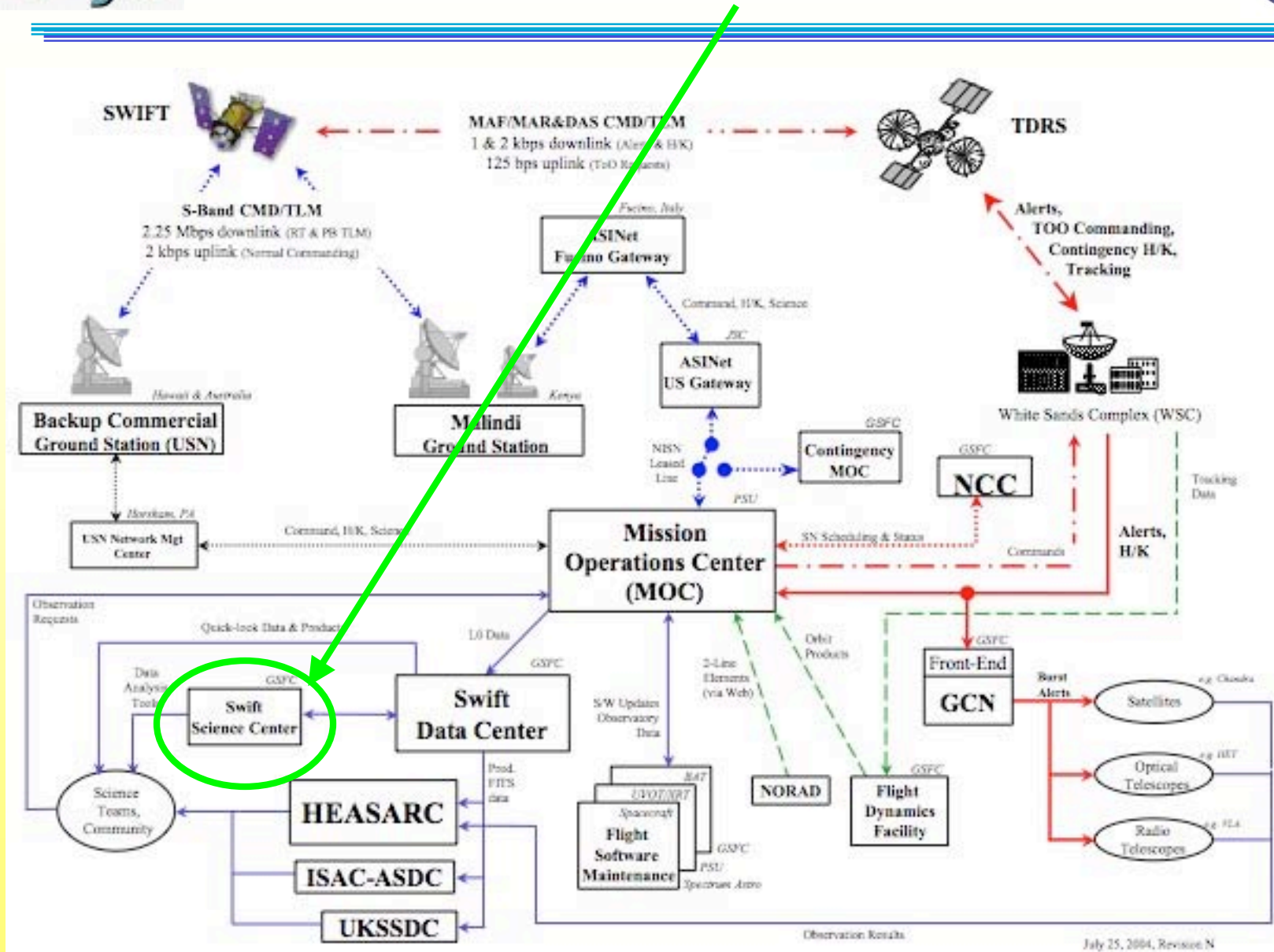
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Swift Science Center

USRA & NASA/GSFC



# Where the SSC Fits In





# Who is the SSC?



The SSC is located in the Laboratory for High Energy Astrophysics at NASA's GSFC. We are part of NASA's Office of Guest Investigator Programs (OGIP).

- Scientists

- Padi Boyd
- Martin Still
- Wayne Landsman
- Stephen Holland

- Programmers

- Mike Tripicco
- Gail Rohrbach
- Terri Greenberg
- Bob Wiegand
- Bob O'Brien



# What Does the SSC Do?



SSC Responsibilities:

*The SSC is the user interface to Swift*

- Coordinate & test Swift data analysis software
- Develop the UVOT analysis software
- Manage Swift calibration products
- Develop & maintain Swift user documentation
- Support the Guest Investigator Program
- Assist the astrophysical community



# Swift Data Analysis



- Developers deliver software to the SSC.
- Calibration products are delivered to the SSC.
- The SSC tests deliveries & integrates them into the analysis pipeline.
- Products are released to the community by HEASARC.

Software Build	Delivery to SSC	Release Date
9	9 Aug 2004	Launch



# Feedback



- Report problems to the Swift Help Desk.

<http://swift.gsfc.nasa.gov/docs/swift/helpdesk.html>

- SSC will direct queries appropriately.
- New software releases will be made as needed.



# Documentation



- SWIFT2FITS document
  - Describes conversion of telemetry to FITS files
- Data Handbooks for each instrument
  - Describe data formats, keywords, file structures, units
- Software User Guides
  - Describe each tool and explain usage
  - Describe input, output, and parameters
- Calibration Documents
  - Describe calibration products, formats, and usage
- Technical Handbook
  - Technical information about Swift
  - Intended for people writing GI proposals

Documentation will be available shortly.



# Guest Investigator Program



- Cycle 2 announced in NASA's ROSS-04
- US Swift PIs can receive funds to do GRB science
  - New GRB projects using Swift data
  - Follow-up observations at other wavelengths
  - Theoretical studies of GRBs
- Proposers *can not* point Swift
- No proprietary data rights
  
- Cycle 1
  - 35 proposals funded
  - Average amount awarded was approx. \$35,000





# Guest Investigator Program



## Critical Dates for Cycle 2

7 Jan 2005	Notices of Intent Due
11 Mar 2005	Proposals Due
TBD	Proposal Review
Launch + 16.5 Months	Cycle 2 Begins



<http://swift.gsfc.nasa.gov/>



Link to data archive

Information on data and software

Information on the guest investigator program

HEASARC HOME | SWIFT HOME | ARCHIVE | DATA ANALYSIS | PROPOSALS & TOOLS | EDUCATION & PUBLIC INFO

**Swift: Catching Gamma-Ray Bursts on the Fly**

ABOUT SWIFT | QUICKLOOK DATA | GCN | SWIFT RESULTS | SCHEDULES & STATUS | RELATED SITES

U.S. site  
Italian site  
U.K. site

Link to Quick-Look data

Link to the GCN

Publications, circulars, & conference proceedings

Switch to international *Swift* sites




# Swift Help Desk




Primary way to communicate with the SSC

Response within one working day

Will maintain a FAQ for commonly asked questions



GODDARD SPACE FLIGHT CENTER




Smithsonian Astrophysical Observatory

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**HEASARC Feedback**

Please select the most appropriate email list to receive your feedback:

General astronomy questions? Try [Imagine the Universe!](#) and [StarChild](#).

Please do not send email requesting hardcopy printouts of any of our images. We do not have the means or resources to reproduce these images for mail distribution.

Choose a mailing list:

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Subject:

Comment:

I would like to find out more about Swift's detailed capabilities. Can you point me to some online information?



# The Swift Science Center

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<http://swift.gsfc.nasa.gov/>



# Extra Slides

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Extra Slides



# UVOT Software

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- The SSC is developing the UVOT analysis software.



# Calibration



- HEASARC Calibration Database (CalDB)
- Calibration data adheres to OGIP standards
  - FITS format
  - Data structure, index files, keywords
  - Standard software interface via FTOOLS
  - Automated updates
- Consistency between missions