

# Glossary

The following terms and acronyms are used in this manual.

- A/D or ADC*: Analog to digital converter.
- AEDP*: Astrometry and Engineering Data Processing.
- CADC*: Canadian Astronomical Data Center.
- CCD*: Charge-coupled device. Solid-state, light detecting device.
- CDBS*: Calibration Data Base. System for maintaining reference files and tables used to calibrate HST observational datasets.
- C&DH*: Control and Data Handling.
- CL*: Command language. The IRAF system-level prompt.
- COSTAR*: Corrective Optics Space Telescope Axial Replacement.
- CTE*: Charge transfer efficiency.
- CVC*: Current to voltage converter. Used with HSP.
- DADS*: Data Archive and Distribution System.
- DAT*: Digital audio tape.
- DC*: Dark current.
- DMF*: Data Management Facility. Used for archiving HST data.
- DN*: Digital number.
- DQ*: Data quality.
- DQE*: Detector quantum efficiency.
- DQF*: Data quality file.
- EBS*: Electron Bombarded Silicon.
- EED*: Extracted engineering data.
- ESA*: European Space Agency.
- FDA*: Field Divider Assembly (NICMOS).
- FES*: Fine error signal (used with FGS).
- FFT*: Fast Fourier transform.
- FGE*: Fine Guidance Electronics. (Used with FGS).
- FGS*: Fine Guidance Sensors.

**FITS:** Flexible Image Transport System. A generic IEEE- and NASA-defined standard used for storing image data.

**FOC:** Faint Object Camera.

**FOM:** Field Offset Mechanism.

**FOS:** Faint Object Spectrograph.

**FOV:** Field of view.

**FTP:** File Transfer Protocol. Basic tool used to retrieve files from a remote system. Ask your system manager for information about using FTP.

**FWHM:** Full width at half maximum.

**GCI:** Geocentric inertial.

**GEIS:** Generic Edited Information Set. The multigroup format used by STSDAS for storing HST image data.

**GHR:** Goddard High-Resolution Spectrograph.

**GIF:** Graphic Interchange Format. Data format developed by CompuServe for storing and transporting image data. Supported by Mosaic and xv for use over Internet.

**GIM:** Geomagnetically-induced motion problem. Formerly a correction in the FOS calibration pipeline, now applied on the spacecraft.

**GO:** General Observer.

**Gopher:** Hypertext-oriented software developed at University of Minnesota for retrieving information through the Internet.

**GPB:** Group parameter block.

**GSC:** Guide Star Catalog.

**GTI:** Good time interval.

**GTO:** Guaranteed Time Observer.

**HDU:** Header Data Unit.

**HSP:** High-Speed Photometer.

**HST:** Hubble Space Telescope.

**HTML:** Hypertext Markup Language.

**Hz:** Hertz. Cycle per second.

**ICD:** Interface control document. Defines data structures used between software or systems to ensure compatibility.

**ICF:** Intrinsic correlation function.

**IDL:** Interactive Data Language.

**IDT:** Investigation Development Team.

**IFOV:** Instantaneous field of view.

**IFT:** Inverse Fourier transform.

**IGI:** Interactive Graphics Interpreter. Graphics program in STSDAS.

- imset***: Image set (STIS and NICMOS).
- IPPPSSOOT***: HST file naming convention to uniquely identify files (described in Appendix B).
- IR***: Infrared.
- IRAF***: Image Reduction and Analysis System. The system on which STS-DAS is built.
- IUE***: International Ultraviolet Explorer.
- JPL***: Jet Propulsion Laboratory, located at California Institute of Technology in Pasadena. Home of WF/PC team.
- K***: Degree Kelvin.
- LOS***: Line of sight.
- LSA***: Large science aperture. One of two apertures on GHRS.
- LVPS***: Low-voltage power supply.
- mas***: Milliarcsecond.
- MEM***: Maximum Entropy Method. Algorithm for restoring images.
- MIE***: MAMA Interface Electronics.
- MIF***: Multiple Initial and Final (readouts, NICMOS).
- MJD***: Modified Julian date.
- MOSS***: Moving Object Support System.
- ND***: Neutral density.
- NICMOS***: Near Infrared Camera and Multi-Object Spectrometer.
- NOAO***: National Optical Astronomy Observatories.
- OCX***: Observer comments file from OSS. Contains updated mission information obtained when the observation is taken.
- OFAD***: Optical field angle distortion.
- OIF***: Old IRAF (data format).
- OMS***: Observatory Monitoring System.
- OPUS***: OSS and PODPS Unified Systems.
- OTA***: Optical telescope assembly.
- OV***: Orbital verification. Process of checking out equipment on HST.
- PC***: Planetary Camera; part of WF/PC.
- PCS***: Pointing Control System.
- PDA***: Photon Detector Assembly (in FOC).
- PDB***: Project Data Base.
- PDQ***: PODPS data Quality file. Contains predicted and actual observation parameters.
- PI***: Principal investigator.

***pipe***: To use the output from one task or program as the input to another task or program. The output of a STSDAS or IRAF task can be piped to another task.

***PMT***: Photomultiplier tube.

***pset***: Parameter set (IRAF).

***PSF***: Point spread function.

***RA***: Right ascension.

***R-L***: Richardson-Lucy. Algorithm for restoring images.

***rms***: Root mean square.

***RSDP***: Routine Science Data Processing. The basic calibration (pipeline) system used for processing all HST observation datasets.

***RTB***: Return-to-brightest. Target acquisition mode for GHRS.

***SAA***: South Atlantic Anomaly.

***SDF***: Science Data Formatter.

***SHL***: Science header line.

***SHP***: Standard header packet. File containing spacecraft information from time of observation.

***SM97***: 1997 Servicing Mission.

***SMOV***: Servicing Mission Orbital Verification.

***S/N***: Signal-to-noise ratio.

***SOGS***: Science Operations Ground System.

***SSA***: Small science aperture. One of two apertures on GHRS; the other is LSA.

***ST-ECF***: Space Telescope European Coordinating Facility.

***STAN***: Space Telescope Analysis Newsletter.

***STARCAT***: System used for retrieving archived HST data. To be replaced by StarView in 1994.

***STEIS***: Space Telescope Electronic Information System. The anonymous FTP host from which information, software, documentation, and other resources pertaining to the HST can be obtained.

***STIS***: Space Telescope Imaging Spectrograph.

***STL***: Science trailer line.

***STScI***: Space Telescope Science Institute.

***STSDAS***: Space Telescope Science Data Analysis System. The complete suite of data analysis and calibration routines used to process HST data.

***SV***: Science verification. Process of taking observations that can be used for HST instrument calibration.

**TEC:** Thermal electric cooler. Part of WF/PC.

**TF:** Transfer function.

**TFMRP:** Transfer Function Mode Reduction Package. Used with respect to FGS.

**TIFF:** Tagged Image File Format. Method of storing images, usually from a scanner.

**TIM:** Telescope Image Modeling. Software used to generate PSF.

**UDL:** Unique data log. File containing instrument command settings.

**URL:** Uniform resource locator. Address for WWW.

**UT:** Universal time.

**UV:** Ultraviolet.

**VPU:** Video processing unit.

**WAIS:** Wide-Area Information Server. Method of locating information on a network using indexes to files.

**WCS:** World Coordinate System.

**WFC:** Wide Field Camera. One of the two cameras in WF/PC.

**WF/PC:** Wide Field/Planetary Camera.

**WFPC2:** Wide Field Planetary Camera-2. Replacement for WF/PC installed during first servicing mission of December 1993.

**world coordinates (WC):** The coordinate system naturally applying to the data, pixels or wavelength, for example.

**WWW:** World Wide Web. Hypertext-oriented method for finding and retrieving information over the Internet.

**ZD:** Zenith distance.

