PART 9:

Appendixes

This part contains only one appendix: a glossary of terms and abbreviations used in this document. The forms that were included in the previous version of this handbook are not included, however, they are available through the Institute's world wide web server, STEIS.

Glossary

The following terms and acronyms are used in this manual.

A/D: 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.

DMF: Data Management Facility. Used for archiving HST data.

DN: Digital number.

DQE: Detector quantum efficiency.

DQF: Data quality file.

EBS: Electron Bombarded Silicon.

EED: Extracted engineering data.

ESA: European Space Agency.

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.

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.

GHRS: 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.

GTO: Guaranteed Time Observer.

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.

IDT: Investigation Development Team.

IFT: Inverse Fourier transform.

IGI: Interactive Graphics Interpreter. Graphics program in STSDAS.

IPPPSSOOT: HST file naming convention to uniquely identify files (described on page 16).

IR: Infrared.

IRAF: Image Reduction and Analysis System. The system on which STSDAS 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.

MJD: Modified Julian date.

MOSS: Moving Object Support System.

ND: Neutral density.

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.

OMS: Observatory Monitoring System.

OPUS: OSS and PODPS Unified Systems.

OSS: Observation Support System.

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.

PODPS: Post-Observation Data Processing System.

PSF: Point spread function. Needed to restore HST images.

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.

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.

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.

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.

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